

Power Systems

*System reference codes (1xxx - Axxx)*

**IBM**



Power Systems

*System reference codes (1xxx - Axxx)*

**IBM**

**Note**

Before using this information and the product it supports, read the information in "Safety notices" on page ix, "Notices" on page 1261, the *IBM Systems Safety Notices* manual, G229-9054, and the *IBM Environmental Notices and User Guide*, Z125-5823.

This edition applies to IBM Power Systems™ servers that contain the POWER7 processor and to all associated models.

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## Safety notices

Safety notices may be printed throughout this guide:

- **DANGER** notices call attention to a situation that is potentially lethal or extremely hazardous to people.
- **CAUTION** notices call attention to a situation that is potentially hazardous to people because of some existing condition.
- **Attention** notices call attention to the possibility of damage to a program, device, system, or data.

### World Trade safety information

Several countries require the safety information contained in product publications to be presented in their national languages. If this requirement applies to your country, safety information documentation is included in the publications package (such as in printed documentation, on DVD, or as part of the product) shipped with the product. The documentation contains the safety information in your national language with references to the U.S. English source. Before using a U.S. English publication to install, operate, or service this product, you must first become familiar with the related safety information documentation. You should also refer to the safety information documentation any time you do not clearly understand any safety information in the U.S. English publications.

Replacement or additional copies of safety information documentation can be obtained by calling the IBM Hotline at 1-800-300-8751.

### German safety information

Das Produkt ist nicht für den Einsatz an Bildschirmarbeitsplätzen im Sinne § 2 der Bildschirmarbeitsverordnung geeignet.

### Laser safety information

IBM® servers can use I/O cards or features that are fiber-optic based and that utilize lasers or LEDs.

#### Laser compliance

IBM servers may be installed inside or outside of an IT equipment rack.

## DANGER

When working on or around the system, observe the following precautions:

Electrical voltage and current from power, telephone, and communication cables are hazardous. To avoid a shock hazard:

- Connect power to this unit only with the IBM provided power cord. Do not use the IBM provided power cord for any other product.
- Do not open or service any power supply assembly.
- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.
- The product might be equipped with multiple power cords. To remove all hazardous voltages, disconnect all power cords.
- Connect all power cords to a properly wired and grounded electrical outlet. Ensure that the outlet supplies proper voltage and phase rotation according to the system rating plate.
- Connect any equipment that will be attached to this product to properly wired outlets.
- When possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.
- Disconnect the attached power cords, telecommunications systems, networks, and modems before you open the device covers, unless instructed otherwise in the installation and configuration procedures.
- Connect and disconnect cables as described in the following procedures when installing, moving, or opening covers on this product or attached devices.

To Disconnect:

1. Turn off everything (unless instructed otherwise).
2. Remove the power cords from the outlets.
3. Remove the signal cables from the connectors.
4. Remove all cables from the devices.

To Connect:

1. Turn off everything (unless instructed otherwise).
2. Attach all cables to the devices.
3. Attach the signal cables to the connectors.
4. Attach the power cords to the outlets.
5. Turn on the devices.

(D005)

## DANGER

Observe the following precautions when working on or around your IT rack system:

- Heavy equipment—personal injury or equipment damage might result if mishandled.
- Always lower the leveling pads on the rack cabinet.
- Always install stabilizer brackets on the rack cabinet.
- To avoid hazardous conditions due to uneven mechanical loading, always install the heaviest devices in the bottom of the rack cabinet. Always install servers and optional devices starting from the bottom of the rack cabinet.
- Rack-mounted devices are not to be used as shelves or work spaces. Do not place objects on top of rack-mounted devices.



- Each rack cabinet might have more than one power cord. Be sure to disconnect all power cords in the rack cabinet when directed to disconnect power during servicing.
- Connect all devices installed in a rack cabinet to power devices installed in the same rack cabinet. Do not plug a power cord from a device installed in one rack cabinet into a power device installed in a different rack cabinet.
- An electrical outlet that is not correctly wired could place hazardous voltage on the metal parts of the system or the devices that attach to the system. It is the responsibility of the customer to ensure that the outlet is correctly wired and grounded to prevent an electrical shock.

#### CAUTION

- Do not install a unit in a rack where the internal rack ambient temperatures will exceed the manufacturer's recommended ambient temperature for all your rack-mounted devices.
- Do not install a unit in a rack where the air flow is compromised. Ensure that air flow is not blocked or reduced on any side, front, or back of a unit used for air flow through the unit.
- Consideration should be given to the connection of the equipment to the supply circuit so that overloading of the circuits does not compromise the supply wiring or overcurrent protection. To provide the correct power connection to a rack, refer to the rating labels located on the equipment in the rack to determine the total power requirement of the supply circuit.
- *(For sliding drawers.)* Do not pull out or install any drawer or feature if the rack stabilizer brackets are not attached to the rack. Do not pull out more than one drawer at a time. The rack might become unstable if you pull out more than one drawer at a time.
- *(For fixed drawers.)* This drawer is a fixed drawer and must not be moved for servicing unless specified by the manufacturer. Attempting to move the drawer partially or completely out of the rack might cause the rack to become unstable or cause the drawer to fall out of the rack.

(R001)

**CAUTION:**

Removing components from the upper positions in the rack cabinet improves rack stability during relocation. Follow these general guidelines whenever you relocate a populated rack cabinet within a room or building:

- Reduce the weight of the rack cabinet by removing equipment starting at the top of the rack cabinet. When possible, restore the rack cabinet to the configuration of the rack cabinet as you received it. If this configuration is not known, you must observe the following precautions:
  - Remove all devices in the 32U position and above.
  - Ensure that the heaviest devices are installed in the bottom of the rack cabinet.
  - Ensure that there are no empty U-levels between devices installed in the rack cabinet below the 32U level.
- If the rack cabinet you are relocating is part of a suite of rack cabinets, detach the rack cabinet from the suite.
- Inspect the route that you plan to take to eliminate potential hazards.
- Verify that the route that you choose can support the weight of the loaded rack cabinet. Refer to the documentation that comes with your rack cabinet for the weight of a loaded rack cabinet.
- Verify that all door openings are at least 760 x 230 mm (30 x 80 in.).
- Ensure that all devices, shelves, drawers, doors, and cables are secure.
- Ensure that the four leveling pads are raised to their highest position.
- Ensure that there is no stabilizer bracket installed on the rack cabinet during movement.
- Do not use a ramp inclined at more than 10 degrees.
- When the rack cabinet is in the new location, complete the following steps:
  - Lower the four leveling pads.
  - Install stabilizer brackets on the rack cabinet.
  - If you removed any devices from the rack cabinet, repopulate the rack cabinet from the lowest position to the highest position.
- If a long-distance relocation is required, restore the rack cabinet to the configuration of the rack cabinet as you received it. Pack the rack cabinet in the original packaging material, or equivalent. Also lower the leveling pads to raise the casters off of the pallet and bolt the rack cabinet to the pallet.

(R002)

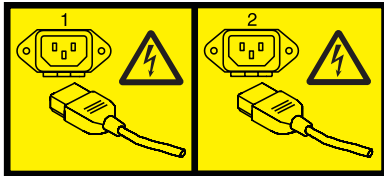
(L001)



(L002)



(L003)



or



All lasers are certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for class 1 laser products. Outside the U.S., they are certified to be in compliance with IEC 60825 as a class 1 laser product. Consult the label on each part for laser certification numbers and approval information.

**CAUTION:**

This product might contain one or more of the following devices: CD-ROM drive, DVD-ROM drive, DVD-RAM drive, or laser module, which are Class 1 laser products. Note the following information:

- Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.
- Use of the controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

(C026)

**CAUTION:**

Data processing environments can contain equipment transmitting on system links with laser modules that operate at greater than Class 1 power levels. For this reason, never look into the end of an optical fiber cable or open receptacle. (C027)

**CAUTION:**

This product contains a Class 1M laser. Do not view directly with optical instruments. (C028)

**CAUTION:**

Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following information: laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam. (C030)

**CAUTION:**

The battery contains lithium. To avoid possible explosion, do not burn or charge the battery.

*Do Not:*

- \_\_\_ Throw or immerse into water
- \_\_\_ Heat to more than 100°C (212°F)
- \_\_\_ Repair or disassemble

Exchange only with the IBM-approved part. Recycle or discard the battery as instructed by local regulations. In the United States, IBM has a process for the collection of this battery. For information, call 1-800-426-4333. Have the IBM part number for the battery unit available when you call. (C003)

## **Power and cabling information for NEBS (Network Equipment-Building System) GR-1089-CORE**

The following comments apply to the IBM servers that have been designated as conforming to NEBS (Network Equipment-Building System) GR-1089-CORE:

The equipment is suitable for installation in the following:

- Network telecommunications facilities
- Locations where the NEC (National Electrical Code) applies

The intrabuilding ports of this equipment are suitable for connection to intrabuilding or unexposed wiring or cabling only. The intrabuilding ports of this equipment *must not* be metallically connected to the interfaces that connect to the OSP (outside plant) or its wiring. These interfaces are designed for use as intrabuilding interfaces only (Type 2 or Type 4 ports as described in GR-1089-CORE) and require isolation from the exposed OSP cabling. The addition of primary protectors is not sufficient protection to connect these interfaces metallically to OSP wiring.

**Note:** All Ethernet cables must be shielded and grounded at both ends.

The ac-powered system does not require the use of an external surge protection device (SPD).

The dc-powered system employs an isolated DC return (DC-I) design. The DC battery return terminal *shall not* be connected to the chassis or frame ground.



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## System reference codes (1xxx - Axxx) overview

Reference codes are diagnostics aids that help you find solutions to system problems.

Reference codes are diagnostic aids that help you determine the source of a hardware or operating system problem. Using a reference code enables you to find the solution to fix the problem. To use reference codes effectively, you must use them in conjunction with other service and support procedures.

**Note:** System reference codes (SRCs) often indicate failing items. Some failing items are required to be exchanged in groups until the problem is solved. Other failing items are flagged as mandatory exchange and must be exchanged before the service action is complete, even if the problem appears to have been repaired. For more information, see “Block replacement of FRUs.”

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### Block replacement of FRUs

Sometimes, multiple field replaceable units (FRUs) or procedures are called out for replacement by an SRC listed in the service action log (SAL). Each FRU or procedure has a priority, and procedures are always in priority order, from highest to lowest priority. Follow the steps below:

1. Perform all high priority or mandatory FRU replacements or procedures at the same time (as a block).
2. If the problem persists after performing the high priority FRU replacements or procedures, then perform the medium priority FRU replacements or procedures one at a time, unless a medium grouping priority is associated with the FRUs or procedures that are called out in the SRC. A medium grouping priority, shown with an A, B, or C, means that you need to perform all the FRU replacements or procedures in that group at the same time (as a block).
3. Finally, if the problem still persists after performing the medium priority FRU replacements or procedures, then perform the low priority FRU replacements or procedures one at a time.

The priorities of performing the FRU replacements or procedures are shown in the following ways, depending on how you view the SRC:

- Advanced System Management Interface (ASMI): The ASMI shows a priority with each callout in the log.
- Control panel: The control panel shows one of the following priorities with each callout:
  - H = High
  - M = Medium
  - MA = Medium group A
  - MB = Medium group B
  - MC = Medium group C
  - L = Low
- Management console: The details of the serviceable event display the FRU replacement priority as high, medium, and so on.
- Service action log: In the SAL, the Part Action for the FRU in the view of the event shows the replacement priority.



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## (1000) Reference codes

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### 10000A0

**Explanation:** SPCN BATs in process

**Response:** No action required. This reference code is logged for information only. If this reference code is present for more than 1 minute, follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

### 10000AA

**Explanation:** Download in process

**Response:** No action required. This reference code is logged for information only.

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### 10000AC

**Explanation:** Detected AC loss

**Response:** If system powers on normally or stays powered on after AC power failure, no replacement of parts may be needed. If parts are replaced, follow the instructions for the items listed in the FRU List.

**Problem determination:** The system may have experienced an AC Power Loss external to the system such as utility or building power and the system may have recovered.

1. If there was a utility, building or room power loss that would have affected the system at the same time this SRC was reported then you can ignore and close this event. No service is required. Otherwise continue with the next step in this procedure.
2. Ensure the line cords are properly connected and seated on both ends. For help in locating the line cords of the power supply reporting this problem use the location code in the serviceable event or the symbolic FRU in the failing items list below.
3. If the system was just installed or moved, verify the AC input voltage is correct.
4. If the problem is not resolved then report this problem to your service provider.

**Failing Item:**

- ACMODUL
- 

### 10000AD

**Explanation:** A reset of the service processor caused the system to power off.

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### 10001500

**Explanation:** Detected AC loss

**Response:** Before replacing any parts, verify that the AC input voltage is correct, follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

### 10001501

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

### 10001502

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
  - CBLALL
- 

### 10001503

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

### 10001507

**Explanation:** Power supply plugging ID error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - VPDPART
-

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10001510

**Explanation:** Detected AC loss

**Response:** Before replacing any parts, verify that the AC input voltage is correct. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

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10001511

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

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10001512

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD
- CBLALL

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10001513

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001514

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001516

**Explanation:** No power supplies are present

**Response:** The required power supplies are not installed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001517

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- VPDPART
- TWRCARD

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10001520

**Explanation:** Detected AC loss

**Response:** Before replacing any parts, verify that the AC input voltage is correct, follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001521

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

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10001522

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
  - CBLALL
-

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**10001523****Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

**10001524****Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

**10001526****Explanation:** No power supplies present**Response:** The required power supplies are not installed. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

**10001527****Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

**10001530****Explanation:** Detected AC loss**Response:** Before replacing any parts, verify that the AC input voltage is correct. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

**10001531****Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

**10001532****Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
  - TWRCARD
  - CBLALL
- 

**10001533****Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

**10001601****Explanation:** Power supply missing**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
- 

**10001602****Explanation:** Power supply missing**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
- 

**10001B01****Explanation:** Load fault on the +12V bus**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1900
  - TWRCARD
-

## 10001B02 • 10002605

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### 10001B02

**Explanation:** Load fault on the +5V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

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### 10001B03

**Explanation:** Load fault on the +3.3V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

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### 10001B04

**Explanation:** Load fault on the -12V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

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### 10001B05

**Explanation:** A voltage load fault was detected.

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

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### 10001B0F

**Explanation:** A voltage load fault was detected.

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

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### 10001B18

**Explanation:** Load fault on the +1.5V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900

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### 10001DA0

**Explanation:** I/O planar SPCN fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900

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### 10001F02

**Explanation:** SPCN trace information saved

**Response:** No action required. This reference code is logged for information only.

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### 10002600

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PGDPART

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### 10002601

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PGDPART

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### 10002603

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PGDPART

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### 10002605

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

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**10002606****Explanation:** Power-good fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1900
  - TWRCARD
- 

**10002607****Explanation:** Power-good fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1900
  - TWRCARD
- 

**10002608****Explanation:** Power-good fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1900
  - TWRCARD
- 

**10002609****Explanation:** Power-good fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1900
  - TWRCARD
- 

**10002612****Explanation:** Optical Converter 5V Fault**Response:** The SPCN detected a fault on the SPCN card optical converter 5V. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- CBLALL
  - TWRCARD
- 

**10003100****Explanation:** I2C bus controller communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003101****Explanation:** I2C bus 1 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003102****Explanation:** I2C bus 2 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003103****Explanation:** I2C bus 3 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003104****Explanation:** I2C bus 4 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003105****Explanation:** I2C bus 5 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
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## 10003106 • 10003118

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### 10003106

**Explanation:** I2C bus 6 communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 1000310A

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 1000310B

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 10003110

**Explanation:** I2C bus DASD backplane 1 communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 10003111

**Explanation:** I2C bus DASD backplane 2 communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 10003112

**Explanation:** I2C bus DASD backplane 3 communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 10003113

**Explanation:** I2C bus adapter communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 10003114

**Explanation:** I2C bus PCI backplane communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 10003115

**Explanation:** I2C bus panel communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 10003116

**Explanation:** I2C bus fan local controller communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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### 10003118

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS



- TWRCARD

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**10003121**

**Explanation:** I2C bus 2 communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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**10003122**

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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**10003123**

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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**10003124**

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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**10003125**

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

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**10003140**

**Explanation:** Midplane VPD I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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**10003141**

**Explanation:** Conduit I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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**10003142**

**Explanation:** DASD backplane VPD I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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**10003143**

**Explanation:** Planar I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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**10003144**

**Explanation:** DCA0 I2C multiplexer (MUX) error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY

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**10003145**

**Explanation:** DCA0 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY

## 10003146 • 10004600

- I2CBUS

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### 10003146

**Explanation:** DCA0 I2C fan 1 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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### 10003147

**Explanation:** DCA0 I2C fan 2 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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### 10003148

**Explanation:** Port card 1 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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### 10003149

**Explanation:** Port card 2 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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### 1000314A

**Explanation:** Port card 3 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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### 1000314B

**Explanation:** Port card 4 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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### 10003154

**Explanation:** DCA1 I2C multiplexer (MUX) error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY

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### 10003155

**Explanation:** DCA1 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- I2CBUS

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### 10003156

**Explanation:** DCA1 I2C fan 1 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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### 10003157

**Explanation:** DCA1 I2C fan 2 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

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### 10004600

**Explanation:** UPS Interface Failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- UPSUNIT

- TWRCARD

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**10004601****Explanation:** UPS Interface Failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- UPSUNIT
- TWRCARD

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**10006000****Explanation:** Midplane VPD error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VPDPART

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**10006001****Explanation:** Conduit card VPD data error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VPDPART

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**10006002****Explanation:** DASD backplane VPD data error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VPDPART

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**10006003****Explanation:** I/O planar InfiniBand cable short**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- CBLALL

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**10006004****Explanation:** Chip fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VPDPART

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**10006006****Explanation:** DCA0 VPD UFM, or flash error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY

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**10006007****Explanation:** Hypervisor persistent data error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- NEXTLVL

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**10006008****Explanation:** The hypervisor persistent data was cleared**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- NEXTLVL

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**10006009****Explanation:** Port card 1 VPD error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VPDPART

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**1000600A****Explanation:** Port card 2 VPD error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VPDPART

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**1000600B****Explanation:** Port card 3 VPD error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VPDPART

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1000600C

**Explanation:** Port card 4 VPD error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- VPDPART

---

10006016

**Explanation:** DCA1 VPD UFM, or flash error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPLY

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10007208

**Explanation:** DCA0 ambient temperature warning

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AMBTEMP

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10007209

**Explanation:** DCA0 ambient temperature error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AMBTEMP

---

1000720A

**Explanation:** I/O chip ambient temperature warning

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AMBTEMP

---

1000720B

**Explanation:** I/O chip ambient temperature error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AMBTEMP

---

10007218

**Explanation:** DCA1: ambient temperature warning

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AMBTEMP

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10007219

**Explanation:** DCA1: ambient temperature error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AMBTEMP

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10007600

**Explanation:** DCA0: fan 1 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR

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10007601

**Explanation:** DCA0: fan 2 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR

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10007602

**Explanation:** DCA1: fan 1 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR

---

10007603

**Explanation:** DCA1: fan 2 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
-

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**10007610**

**Explanation:** Fan Fault

**Response:** The Fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007611**

**Explanation:** Fan missing error

**Response:** A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007620**

**Explanation:** Fan Fault

**Response:** The Fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007621**

**Explanation:** Fan missing error

**Response:** A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007630**

**Explanation:** Fan Fault

**Response:** The Fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

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**10007631**

**Explanation:** Fan missing error

**Response:** A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007640**

**Explanation:** Fan Fault

**Response:** The Fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007641**

**Explanation:** Fan missing error

**Response:** A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007650**

**Explanation:** Fan Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007651**

**Explanation:** Fan missing error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
-

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10008400

**Explanation:** Configuration ID decode failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1917
- TWRCARD

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10008402

**Explanation:** Unable to Collect VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- VDPART
- TWRCARD

---

1000840D

**Explanation:** Configuration ID decode failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- IDPART
- TWRCARD

---

1000840E

**Explanation:** Configuration ID decode failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- IDPART
- TWRCARD

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10008752

**Explanation:** DCA0 firmware download failed

**Response:** No action required. This reference code is logged for information only.

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10008753

**Explanation:** DCA1 firmware download failed

**Response:** No action required. This reference code is logged for information only.

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10008756

**Explanation:** DCA0 firmware download has started.

**Response:** No action required. This reference code is logged for information only.

---

10008757

**Explanation:** DCA1 firmware download has started.

**Response:** No action required. This reference code is logged for information only.

---

10008758

**Explanation:** DCA firmware download has ended.

**Response:** No action required. This reference code is logged for information only.

---

10008910

**Explanation:** External Netfinity Server 3.3V fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- ALTMANL
- TWRCARD

---

10008920

**Explanation:** External Netfinity server power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- ALTMANL

---

10008930

**Explanation:** Integrated Netfinity Adapter fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

10008940

**Explanation:** External Netfinity Server R485 Communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

- CBLALL

---

**10008941**

**Explanation:** External Netfinity Server R485 Communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

**10008942**

**Explanation:** External Netfinity Server R485 Communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

**10008943**

**Explanation:** External Netfinity Server R485 Communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

**10008A00**

**Explanation:** IO power control changed to another system unit

**Response:** No action required. This reference code is logged for information only.

---

**10009002**

**Explanation:** Received a bad return code

**Response:** The SPCN firmware has detected a condition that may require attention. Check error log for other errors that may have been reported at the same time as this condition was reported. If this SRC persists contact next level of support.

---

**10009012**

**Explanation:** Address not valid.

**Response:** LIC command had a frame address that was not valid. Exchange the SPCN frame-to-frame cables to the failing frame. Follow the instructions for

the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

**10009013**

**Explanation:** Invalid Node Address.

**Response:** The address in the SPCN command does not match the secondary nodes assigned address. Exchange the failing items for the SPCN node reporting the error. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

**10009014**

**Explanation:** A command has an invalid address mode.

**Response:** A command from the system unit specified a unit address of D or E or had a frame address of 00. Exchange the failing items in the system unit. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AJDG301
- TWRCARD

---

**10009015**

**Explanation:** An invalid rack command was encountered.

**Response:** Informational message: The command is invalid for the addressed rack and has not been executed. This status is also returned if the address mode is not valid for the command. The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

---

**10009016**

**Explanation:** A command to an SPCN node was rejected.

**Response:** No action required. This reference code is logged for information only.

---

**10009018**

**Explanation:** An invalid modifier was found in a command.

**Response:** Informational message: This status is used by the slave, rack and CEC to identify invalid command modifier values in commands directed to the

## 10009019 • 1000902D

node. An APX command will be rejected by the CEC without transmission on the network if the modifier field contains an invalid address. The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

---

### 10009019

**Explanation:** An invalid command was encountered.

**Response:** Informational message: The command is not valid for transmission on the network. The following conditions are detected by the CEC node during hypervisor command processing. The command is rejected directly by the CEC node for the following reasons:

- The command from the hypervisor was not defined.
- The RPF or RPN command from the hypervisor specified R = 0. (Programming cannot power the system off via this mechanism).
- The LSP subset command (0x'1X') was not addressed to a specific node.
- The APX command was not addressed to RRRR=01-3FFF, UU=0.
- A QSX command was not addressed to RRRR=0, UU=D.

The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

---

### 1000901B

**Explanation:** A CEC port addressing problem was found.

**Response:** Informational message: This status is inserted by the primary rack on broadcast commands to identify the location of the CEC node. This response is returned to node specific commands addressed to the CEC node using the CEC physical RRRRUU value. The CEC cannot be addressed with this address. The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

---

### 10009021

**Explanation:** A command to an SPCN node was rejected.

**Response:** No action required. This reference code is logged for information only.

---

### 10009022

**Explanation:** Addressed Unit not in frame.

**Response:** The addressed unit does not exist in the addressed frame. No action required. This reference

code is logged for information only.

---

### 10009023

**Explanation:** Addressed Unit exists, but the frame is powered off.

**Response:** The addressed unit is in a frame that is powered off. No action required. This reference code is logged for information only.

---

### 10009024

**Explanation:** SPCN Licensed Internal Code not valid.

**Response:** The Licensed Internal Code in one of the secondary nodes is not valid. The code will be reloaded. No action required. This reference code is logged for error analysis only.

---

### 10009025

**Explanation:** SPCN Licensed Internal Code is not valid.

**Response:** The Licensed Internal Code in one of the frames is not valid. The code will be reloaded. No action required. This reference code is logged for error analysis only.

---

### 10009028

**Explanation:** SPCN Licensed Internal Code is not valid.

**Response:** The Licensed Internal Code in the primary node is not valid. The code will be reloaded. No action required. This reference code is logged for error analysis only.

---

### 10009029

**Explanation:** SPCN VPD Damaged

**Response:** The VPD record in the EEPROM has bad data. Exchange the failing items for the node reporting the failure. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

### 1000902D

**Explanation:** Addressed frame is not in SPCN configuration table.

**Response:** The addressed frame is not in the SPCN configuration table. No action required. This reference code is logged for information only.



---

**10009031****Explanation:** Frame-to-Frame Communications Failure**Response:** The SPCN detected a BCC error on a transmission from another frame. The transmission is attempted again. No action required. This reference code is logged for error analysis only.

---

**10009032****Explanation:** SPCN Communications Failure, unit to rack.**Response:** The frame detected a BCC error on a transmission from a secondary node to the frame. The transmission is attempted again. No action required. This reference code is logged for error analysis only.

---

**10009033****Explanation:** SPCN Communications Failure, rack to unit.**Response:** A secondary node detected a BCC error on a transmission from the frame. The transmission is attempted again. No action required. This reference code is logged for error analysis only.

---

**10009034****Explanation:** Unsupported Packet Size**Response:** The receiving node detected a packet exceeding 70 bytes. The frame can also return this code if a secondary node returns more than 10 bytes to a PAS command. No action required. This reference code is logged for error analysis only.

---

**10009035****Explanation:** Secondary SPCN node timeout.**Response:** A secondary SPCN node did not respond to a command. The command was attempted again and failed. No action required. This reference code is logged for error analysis only.

---

**10009036****Explanation:** Frame Timeout**Response:** One or more frames did not respond to a command. The command is attempted again. No action required. This reference code is logged for error analysis only.

---

**1000903B****Explanation:** Invalid Packet Length for data sent.**Response:** The number of bytes sent or received does not match the number of bytes specified in the command. No action required. This reference code is

logged for error analysis only.

---

**10009041****Explanation:** Invalid Load Type**Response:** The down load was successful, but the wrong type of Licensed Internal Code was loaded. The operation was attempted again but was not successful. Exchange the failing items for the node reporting the fault. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AJDG301
- TWRCARD

---

**10009042****Explanation:** EEPROM Failure**Response:** The EEPROM in an SPCN node cannot be written successfully. Exchange the SPCN node reported in the failure. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD

---

**10009043****Explanation:** Download Failure**Response:** The Licensed Internal Code download to an SPCN node was completed but was not successful. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD

---

**10009046****Explanation:** QDS Packet Sequence Error**Response:** The Packet Sequence number is wrong. The download was stopped. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD

---

**10009047****Explanation:** QDS Block Sequence Error**Response:** The Block Sequence number is wrong. The download was stopped. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD

---

10009048

**Explanation:** The SPCN ROS and EEPROM LIC is not compatible.

**Response:** The LIC levels in the nodes ROS and EEPROM are not compatible. Exchange the failing items for the failing node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- AJDG301

---

10009080

**Explanation:** Undefined Status Code

**Response:** An SPCN node returned an unknown status code. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- SYSBKPL

---

10009088

**Explanation:** A problem was found in the SPCN firmware.

**Response:** Informational message: A problem was found in the SPCN firmware. The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

---

100090F0

**Explanation:** A frame was dropped from the SPCN configuration.

**Response:** A frame was dropped from the SPCN configuration. This is usually caused by a loss of ac power or a problem with the frame-to-frame cable. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1907
- TWRCARD
- CBLALL

---

100090F1

**Explanation:** A frame was added to the SPCN configuration.

**Response:** No action required. This reference code is logged for information only.

---

100090F2

**Explanation:** Slave disappeared

**Response:** A slave was dropped from the SPCN configuration. This is usually caused by a loss of ac power. If this SRC is logged during a concurrent maintenance operation, it is informational only and can be ignored.

---

100090F3

**Explanation:** Slave reappeared

**Response:** No action required. This reference code is logged for information only.

---

10009101

**Explanation:** VLIC-SPCN Timeout

**Response:** A Licensed Internal Code timeout occurred. The SPCN failed to respond to a Licensed Internal Code command. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

10009102

**Explanation:** Assign Permanent Address command failure

**Response:** A node failed to perform an Assign Permanent Address command. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

10009103

**Explanation:** Download Initialize Timeout

**Response:** An SPCN node failed to enter the download state after an Initialize for Download command. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

10009104

**Explanation:** Download Completion Timeout

**Response:** An SPCN node failed to leave the download state. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

**10009105**

**Explanation:** Load Damaged Timeout

**Response:** An SPCN node failed to enter the operational state. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

**10009106**

**Explanation:** An SPCN LID was not found.

**Response:** No action required. This reference code is logged for information only.

---

**10009107**

**Explanation:** An SPCN microcode download is required.

**Response:** No action required. This reference code is logged for error analysis only.

---

**10009108**

**Explanation:** A status change occurred in one of the SPCN nodes.

**Response:** No action required. This reference code is logged for information only.

---

**10009109**

**Explanation:** Licensed Internal Code part number is not correct.

**Response:** The AROS part number field was not updated to the correct level after the system attempted to load new Licensed Internal Code. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

**1000910A**

**Explanation:** RIO Download Required

**Response:** No action required. This reference code is logged for information only.

---

**1000910B**

**Explanation:** Maximum number of retries exceeded

**Response:** No action required. This reference code is logged for information only.

---

**10009111**

**Explanation:** SPCN is too large for hypervisor.

**Response:** There are more nodes in the network than the hypervisor can service. Go to System Configuration in ASMI . Under Configure I/O Enclosures select Clear Inactive Enclosures. If the error persists follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AJDG301
- 

**10009112**

**Explanation:** Primary SPCN node is reporting load damaged.

**Response:** The Licensed Internal Code for the primary SPCN node is damaged. The reload failed because the code could not be found. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

**10009113**

**Explanation:** Secondary SPCN node is reporting load damaged.

**Response:** The Licensed Internal Code for the secondary SPCN node is damaged. The reload failed because the code could not be found. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

**10009114**

**Explanation:** Frame SPCN node is reporting load damaged.

**Response:** The Licensed Internal Code for a SPCN node is damaged. The reload failed because the code could not be found. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

**10009115**

**Explanation:** SPCN Command rejected by the firmware.

**Response:** The service processor rejected an SPCN command from the Licensed Internal Code. No action required. This reference code is logged for information only.

---

10009116

**Explanation:** SPCN - Control Panel interface failure.

**Response:** The SPCN to control panel interface is not working.

---

10009117

**Explanation:** SPCN - Control Panel interface is now working.

**Response:** The SPCN to control panel interface is now working. No action required. This reference code is logged for information only.

---

10009118

**Explanation:** Hypervisor out of memory

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AJDG301

---

10009119

**Explanation:** NVRAM Write Failed

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

1000911A

**Explanation:** Too many racks attached

**Response:** Reduce the number of racks to maximum configuration on the system.

---

1000911B

**Explanation:** SPCN CEC node code failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AJDG301

---

1000911C

**Explanation:** Two nodes have same VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- VPDPART

---

1000911D

**Explanation:** RIO Download Failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- SI\_CARD

---

1000911E

**Explanation:** Temporary VPD written

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRVPD

---

1000911F

**Explanation:** CEC not found

**Response:** Call your next level of support.

---

10009120

**Explanation:** Duplicate backplane VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- SYSBKPL

---

10009131

**Explanation:** Invalid XM Return Code

**Response:** No action required. Logged for error analysis only.

---

10009132

**Explanation:** Node contains temporary VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRVPD

---

10009133

**Explanation:** Bad PCI Correlation Problem

**Response:** PCI bus not matched. Follow the instructions for the items listed in the FRU list. If this SRC is logged during a concurrent maintenance operation, it is informational only and can be ignored.

**Failing Item:**

- CBLALL

---

**10009134****Explanation:** PCI bus VPD error**Response:** Check Error Log for B700 xxxx Reference Codes.

---

**10009135****Explanation:** Open SPCN Loop**Response:** Follow the instructions for the items listed in the FRU list. If this SRC is logged during a concurrent maintenance operation, it is informational only and can be ignored.**Failing Item:**

- CBLALL
- TWRCARD

---

**10009136****Explanation:** The manually started download was interrupted**Response:** Needs to be Manually restarted

---

**10009137****Explanation:** Bad PCI Correlation Problem**Response:** SPCN node not matched. Follow the instructions for the items listed in the FRU list. If this SRC is logged during a concurrent maintenance operation, it is informational only and can be ignored.**Failing Item:**

- CBLALL

---

**10009138****Explanation:** Bad Location Code**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- CBLALL

---

**10009139****Explanation:** Open SPCN loop resolved**Response:** No action required. This reference code is logged for information only.

---

**1000913A****Explanation:** RIO download sent retry**Response:** No action required. This reference code is logged for information only.

---

**1000913B****Explanation:** Go to ASMi to start a download manually**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1907

---

**100091DD****Explanation:** All SPCN Downloads Complete**Response:** No action required. This reference code is logged for information only.

---

**100091DE****Explanation:** RIO Download Complete**Response:** No action required. This reference code is logged for information only.

---

**100091FB****Explanation:** Write VPD on next IPL**Response:** No action required. This reference code is logged for information only.

---

**1000C62E****Explanation:** Polling error**Response:** An SPCN frame-to-frame communication failure was detected. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD
- CBLALL

---

**1000CB15****Explanation:** EEPROM Failure.**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD



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## (1100) Reference codes

---

### 110000AC

**Explanation:** Detected AC loss

**Response:** If system powers on normally or stays powered on after AC power failure, no replacement of parts may be needed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** The system may have experienced an AC Power Loss external to the system such as utility or building power and the system may have recovered.

1. If there was a utility, building or room power loss that would have affected the system at the same time this SRC was reported then you can ignore and close this event. No service is required. Otherwise continue with the next step in this procedure.
2. Ensure the line cords are properly connected and seated on both ends. For help in locating the line cords of the power supply reporting this problem use the location code in the serviceable event or the symbolic FRU in the failing items list below.
3. If the system was just installed or moved, verify the AC input voltage is correct.
4. If the problem is not resolved then report this problem to your service provider.

**Failing Item:**

- ACMODUL
- 

### 110000AD

**Explanation:** A reset of the service processor caused the system to power off.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- TWRCARD
- 

### 11001510

**Explanation:** Detected AC loss

**Response:** Before replacing any parts, verify that the AC input voltage is correct. Follow the instructions for the items listed in the FRU List.

**Problem determination:** The system may have experienced an AC Power Loss external to the system such as utility or building power and the system may have recovered.

1. If there was a utility, building or room power loss that would have affected the system at the same time this SRC was reported then you can ignore and close this event. No service is required. Otherwise continue with the next step in this procedure.
2. Ensure the line cords are properly connected and seated on both ends. For help in locating the line cords of the power supply reporting this problem use the location code in the serviceable event or the symbolic FRU in the failing items list below.
3. If the system was just installed or moved, verify the AC input voltage is correct.
4. If the problem is not resolved then report this problem to your service provider.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

### 11001511

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

### 11001512

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
  - CBLALL
- 

### 11001513

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

## 11001514 • 11001523

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11001514

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 1100151E

**Explanation:** The power supply fan on Un-E1 experienced a short stoppage, but recovered. The power supply should be replaced as soon as possible before the fan fails permanently.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 1100151F

**Explanation:** The power supply fan on Un-E1 failed. The power supply should be replaced as soon as possible.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11001520

**Explanation:** Detected AC loss

**Response:** Before replacing any parts, verify that the AC input voltage is correct. Follow the instructions for the items listed in the FRU List.

**Problem determination:** The system may have experienced an AC Power Loss external to the system

such as utility or building power and the system may have recovered.

1. If there was a utility, building or room power loss that would have affected the system at the same time this SRC was reported then you can ignore and close this event. No service is required. Otherwise continue with the next step in this procedure.
2. Ensure the line cords are properly connected and seated on both ends. For help in locating the line cords of the power supply reporting this problem use the location code in the serviceable event or the symbolic FRU in the failing items list below.
3. If the system was just installed or moved, verify the AC input voltage is correct.
4. If the problem is not resolved then report this problem to your service provider.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11001521

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11001522

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD
- CBLALL

---

### 11001523

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**



- PWRSPPLY
- TWRCARD

---

**11001524**

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

**1100152E**

**Explanation:** The power supply fan on Un-E2 experienced a short stoppage, but recovered. The power supply should be replaced as soon as possible before the fan fails permanently.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

**1100152F**

**Explanation:** The power supply fan on Un-E2 failed. The power supply should be replaced as soon as possible.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

**11001611**

**Explanation:** Regulator 1 Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**11001612**

**Explanation:** Regulator 1 Communication Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**11001613**

**Explanation:** Regulator 1 Domain Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**11001621**

**Explanation:** Regulator 2 Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**11001622**

**Explanation:** Regulator 2 Communication Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**11001623**

**Explanation:** Regulator 2 Domain Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**11001631**

**Explanation:** Regulator 3 Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**11001632**

**Explanation:** Regulator 3 Communication Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**11001633**

**Explanation:** Regulator 3 Domain Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**110016F1**

**Explanation:** No power supplies detected in drawer number 1

**Response:** Perform the following in order:

- Check for system firmware updates; apply if available.
- Replace the primary service processor.
- Replace the backplane in the failing drawer.
- Replace all of the power supplies in the failing drawer.

**Problem determination:** No additional problem determination.

---

**110016F2**

**Explanation:** No power supplies detected in drawer number 2

**Response:** Perform the following in order:

- Check for system firmware updates; apply if available.
- Replace the primary service processor.
- Replace the backplane in the failing drawer.
- Replace all of the power supplies in the failing drawer.

**Problem determination:** No additional problem determination.

---

**110016F3**

**Explanation:** No power supplies detected in drawer number 3

**Response:** Perform the following in order:

- Check for system firmware updates; apply if available.
- Replace the primary service processor.
- Replace the backplane in the failing drawer.
- Replace all of the power supplies in the failing drawer.

**Problem determination:** No additional problem determination.

---

**110016F4**

**Explanation:** No power supplies detected in drawer number 4

**Response:** Perform the following in order:

- Check for system firmware updates; apply if available.
- Replace the primary service processor.
- Replace the backplane in the failing drawer.
- Replace all of the power supplies in the failing drawer.

**Problem determination:** No additional problem determination.

---

**11001B01**

**Explanation:** Level 1 load fault (+12V)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1900

---

**11001B02**

**Explanation:** Load fault on the +5V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1900
  - TWRCARD
- 

**11001B03**

**Explanation:** Load fault on the +3.3V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1900
  - TWRCARD
- 

**11001B05**

**Explanation:** Load fault on the +1.8V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
  - TWRCARD
- 

**11001B06**

**Explanation:** Load fault on the +2.5V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
  - TWRCARD
- 

**11001B0A**

**Explanation:** Load Fault on the +12V/-12v bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
  - TWRCARD
- 

**11001B0F**

**Explanation:** Load Fault on the +1.2V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
  - TWRCARD
- 

**11001C10**

**Explanation:** Regulator Level 1 Load Fault (1.1A)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
  - TWRCARD
- 

**11001C11**

**Explanation:** Regulator Level 2 Load Fault (1.1B)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
  - TWRCARD
- 

**11001C12**

**Explanation:** Regulator Level 2 Load Fault (1.8)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
  - TWRCARD
-

---

### 11001C13

**Explanation:** Regulator Level 2 Load Fault (1.2A)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

---

### 11001C14

**Explanation:** Regulator Level 2 Load Fault (1.25)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

---

### 11001C15

**Explanation:** Regulator Level 2 Load Fault (1.2B)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

---

### 11001D12

**Explanation:** I/O hub card 1 fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11001D13

**Explanation:** I/O hub card 2 fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11001D14

**Explanation:** I/O hub card 3 fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11001D15

**Explanation:** I/O hub card 4 fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11001D60

**Explanation:** RIO adapter card 1 softswitch fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SI\_CARD
- TWRCARD

---

### 11001D63

**Explanation:** RIO adapter card 2 softswitch fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SI\_CARD
- TWRCARD

---

### 11001D68

**Explanation:** HEA adapter card 2 softswitch fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11001F01

**Explanation:** TMS limit reached - log only

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

#### 11001F02

**Explanation:** SPCN trace information saved

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

#### 11001F03

**Explanation:** Invalid TMS or location code; log only.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

#### 11002600

**Explanation:** Power Good Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PGDPART

---

#### 11002602

**Explanation:** Power Good Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

#### 11002603

**Explanation:** Power Good Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PGDPART

---

#### 11002610

**Explanation:** A power signal failure has been detected

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

#### 11002611

**Explanation:** A power signal failure has been detected

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

#### 11002613

**Explanation:** 100V check fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- CBLALL
- SYSBKPL

---

#### 11002614

**Explanation:** The power supplies are mismatched; one is ac, and one is dc.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY

---

#### 11002615

**Explanation:** 1925W power supplies are required in this system.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

## 11002620 • 1100262B

- PWRSPLY

---

### 11002620

**Explanation:** 12V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

### 11002622

**Explanation:** 1.52V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

### 11002623

**Explanation:** 1.8V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

### 11002624

**Explanation:** 5.0V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11002625

**Explanation:** 3.3V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

### 11002626

**Explanation:** 2.5V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

### 11002627

**Explanation:** GX slot 1 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11002628

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

### 11002629

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

### 1100262A

**Explanation:** GX slot 2 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 1100262B

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

**1100262C**

**Explanation:** DASD 5V regulator P\_GOOD fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

**1100262D**

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

**1100262E**

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

**1100262F**

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

**11002630**

**Explanation:** Processor 1 P7\_VRM pgood fault (pluggable)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**11002632**

**Explanation:** Processor 1 VRM2 array power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- ANYPROC
- SYSBKPL

**11002633**

**Explanation:** Processor 1 1.2V VRM power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- SYSBKPL

**11002634**

**Explanation:** Processor VRM or processor card power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
- SYSBKPL

**11002635**

**Explanation:** VRM fault on the processor card.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

11002636

**Explanation:** VRM fault on the processor card.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

1100263A

**Explanation:** Memory card 1 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** Look for a 1100xxxx SRC that was logged before this SRC. If an SRC is found, resolve that SRC first. If the problem is not corrected, follow the instructions for the items listed in the FRU list for this SRC.

---

1100263B

**Explanation:** Memory card 1 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

1100263C

**Explanation:** Memory card 1 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

11002640

**Explanation:** Processor 2 P7\_VRM pgood fault (pluggable)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

11002642

**Explanation:** Processor 2 VRM2 array power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - ANYPROC
  - SYSBKPL
- 

11002643

**Explanation:** Processor 2 1.8V VRM or processor 2 power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
  - SYSBKPL
- 

11002645

**Explanation:** VRM fault on the processor card.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

1100264A

**Explanation:** Memory card 2 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** Look for a 1100xxxx SRC that was logged before this SRC. If an SRC is found, resolve that SRC first. If the problem is not corrected, follow the instructions for the items listed in the FRU list for this SRC.

---

1100264B

**Explanation:** Memory card 2 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---



---

**1100264C**

**Explanation:** Memory card 2 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002650**

**Explanation:** Processor 3 VRM 1A or 1B power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - ANYPROC
  - SYSBKPL
- 

**11002652**

**Explanation:** Processor 3 VRM2 array power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - ANYPROC
  - SYSBKPL
- 

**11002653**

**Explanation:** Processor 3 1.2V VRM power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - SYSBKPL
- 

**11002654**

**Explanation:** Processor 3 1.8V VRM or processor 3 power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
  - SYSBKPL
- 

**1100265A**

**Explanation:** Memory card 3 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** Look for a 1100xxxx SRC that was logged before this SRC. If an SRC is found, resolve that SRC first. If the problem is not corrected, follow the instructions for the items listed in the FRU list for this SRC.

---

**1100265B**

**Explanation:** Memory card 3 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**1100265C**

**Explanation:** Memory card 3 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002660**

**Explanation:** Processor 4 VRM 1A or 1B power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - ANYPROC
  - SYSBKPL
- 

**11002662**

**Explanation:** Processor 4 VRM2 array power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

## 11002663 • 11002702

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- ANYPROC
- SYSBKPL

---

### 11002663

**Explanation:** Processor 4 1.2V VRM power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- SYSBKPL

---

### 11002664

**Explanation:** Processor 4 1.8V VRM failed or processor 4 power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
- SYSBKPL

---

### 1100266A

**Explanation:** Memory card 4 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** Look for a 1100xxxx SRC that was logged before this SRC. If an SRC is found, resolve that SRC first. If the problem is not corrected, follow the instructions for the items listed in the FRU list for this SRC.

---

### 1100266B

**Explanation:** Memory card 4 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 1100266C

**Explanation:** Memory card 4 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11002690

**Explanation:** Processor 1 and 2 VDDA pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11002691

**Explanation:** Processor 1 and 2 VSN pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

### 11002700

**Explanation:** VRM fault on the processor card.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11002701

**Explanation:** Informational monitoring event in the power subsystem. No service is required.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11002702

**Explanation:** VRM fault on the DASD backplane. DASD backplane replacement is required.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002703**

**Explanation:** Informational monitoring event in the power subsystem. No service is required.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002704**

**Explanation:** VRM fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002705**

**Explanation:** Informational monitoring event in the power subsystem. No service is required.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002800**

**Explanation:** The system was automatically shut down because the top cover was removed.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- LDSWTCH
- 

**11003100**

**Explanation:** Service processor I2C failure

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**11003105**

**Explanation:** Service processor I2C failure.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- TWRCARD
- 

**11003114**

**Explanation:** Service processor I2C failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- I2CBUS
  - SYSBKPL
  - TWRCARD
- 

**11003116**

**Explanation:** I2C failure: blower control chip

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL
- 

**11003120**

**Explanation:** VRM failure

**Response:** Follow the instructions for the items listed in the FRU list in the error log entry.

**Problem determination:** No additional problem determination.

---

**11004201**

**Explanation:** UPS reported: utility failure signal is on

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

---

11004203

**Explanation:** UPS reported: battery low signal is on

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

11004600

**Explanation:** UPS interface failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- UPSUNIT
- TWRCARD

---

11004601

**Explanation:** UPS interface failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- UPSUNIT
- TWRCARD

---

11005000

**Explanation:** Service processor fail over failed due to configuration mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- TWRCARD

---

11005001

**Explanation:** Service processor fail over failed due to configuration mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- TWRCARD

---

11005010

**Explanation:** SPCN ports not present. mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- CBLALL

---

11007110

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPLY
- TWRCARD

---

11007120

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPLY
- TWRCARD

---

11007200

**Explanation:** The system is located at an altitude greater than 4000 meters (13,120 feet). This is outside the range of the system specifications.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ALTITUDE

---

11007201

**Explanation:** Ambient temperature is out of range

**Response:** Follow the procedure for the items listed in the FRU List.

**Problem determination:**

1. Verify that adequate cooling exists in the system's environment.
2. If there was a cooling failure at about the same time these SRCs were logged, these errors can be ignored and closed. Otherwise continue with the next step in this procedure.
3. Verify that the air temperature around the system's intakes, including exhaust air blowing at the system from nearby equipment, is within the system's environmental limits.
4. If the above steps did not resolve the problem then report the problem to your service provider.

**Failing Item:**

- AMBTEMP

**11007202**

**Explanation:** Ambient temperature is back in range

**Response:** Follow the procedure for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBBACK

**11007203**

**Explanation:** Ambient temperature exceeded limit

**Response:** The system will shut down in 15 minutes. Follow the instructions for the items listed in the FRU List.

**Problem determination:**

1. Verify that adequate cooling exists in the system's environment.
2. If there was a cooling failure at about the same time these SRCs were logged, these errors can be ignored and closed. Otherwise continue with the next step in this procedure.
3. Verify that the air temperature around the system's intakes, including exhaust air blowing at the system from nearby equipment, is within the system's environmental limits.
4. If the above steps did not resolve the problem then report the problem to your service provider.

**Failing Item:**

- AMBTEMP

**11007204**

**Explanation:** Ambient temperature is back in range

**Response:** Follow the procedure for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBBACK

**11007205**

**Explanation:** Ambient temperature exceeded limit

**Response:** The system will shut down in 20 seconds. Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBTEMP

**11007207**

**Explanation:** Ambient temperature has dropped below the low temperature limit.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBTEMP

**11007210**

**Explanation:** Altitude above supported limit detected.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**11007211**

**Explanation:** Ambient temperature is out of range

**Response:** Ambient temperature is above nominal for CPU performance. Follow the instructions for the items listed in the FRU List.

**Problem determination:**

1. Verify that adequate cooling exists in the system's environment.
2. If there was a cooling failure at about the same time these SRCs were logged, these errors can be ignored and closed. Otherwise continue with the next step in this procedure.
3. Verify that the air temperature around the system's intakes, including exhaust air blowing at the system from nearby equipment, is within the system's environmental limits.

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4. If the above steps did not resolve the problem then report the problem to your service provider.

**Failing Item:**

- AMBTMP1
- 

**11007212**

**Explanation:** Ambient temperature is back in range

**Response:** Ambient temperature has returned to nominal.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBTMP2
- 

**11007220**

**Explanation:** The system is located at an altitude that is outside the range of the system performance specification, and the thermal/power management firmware may reduce performance in heavy workload situations.

**Response:** The system is located at an altitude that is within the range of the system specification, but the thermal/power management firmware may reduce performance due to the altitude.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ALTPERF
- 

**11007221**

**Explanation:** The ambient temperature is outside the range of the system performance specification, and the thermal/power management firmware may reduce performance in heavy workload situations.

**Response:** The ambient temperature is outside the range of the system performance specification, and the thermal/power management firmware may reduce performance in heavy workload situations.

**Problem determination:**

1. Verify that adequate cooling exists in the system's environment.
2. If there was a cooling failure at about the same time these SRCs were logged, these errors can be ignored and closed. Otherwise continue with the next step in this procedure.
3. Verify that the air temperature around the system's intakes, including exhaust air blowing at the system from nearby equipment, is within the system's environmental limits.
4. If the above steps did not resolve the problem then report the problem to your service provider.

**Failing Item:**

- AMBPERF
- 

**11007222**

**Explanation:** The ambient temperature is back in range.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

**11007401**

**Explanation:** A drawer is missing power.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

**Failing Item:**

- DRWRPWR
- 

**11007402**

**Explanation:** A drawer is missing power.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

**Failing Item:**

- DRWRPWR
- 

**11007403**

**Explanation:** A drawer is missing power.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

**Failing Item:**

- DRWRPWR
- 

**11007404**

**Explanation:** A drawer is missing power.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

**Failing Item:**

- DRWRPWR

---

**11007610**

**Explanation:** Fan fault

**Response:** The fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**11007611**

**Explanation:** Fan missing error

**Response:** A problem was detected with a fan which can be caused by a fan not being installed. Install fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**11007620**

**Explanation:** Fan fault

**Response:** The fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**11007621**

**Explanation:** Fan missing error

**Response:** A problem was detected with a fan which can be caused by a fan not being installed. Install fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**11007630**

**Explanation:** A fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**11007631**

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**11007640**

**Explanation:** A fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**11007641**

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

## 11007650 • 110076A1

- AIRMOVR
- TWRCARD

---

### 11007650

**Explanation:** A fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 11007651

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 11007660

**Explanation:** A fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 11007661

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 11007670

**Explanation:** A fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 11007671

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 110076A0

**Explanation:** A problem was detected with a fan. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 110076A1

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already



installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

#### 110076B0

**Explanation:** A problem was detected with a fan. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

#### 110076B1

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

#### 110076C0

**Explanation:** Fan fault on a GX++ adapter card

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

#### 110076C1

**Explanation:** Fan fault on a GX++ adapter card

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

#### 11008400

**Explanation:** No VPD was found due to invalid bypass

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AJDG301

#### 11008402

**Explanation:** Unable to collect VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

#### 11008404

**Explanation:** Processor unit VPD mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

#### 11008405

**Explanation:** Processor unit VPD mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

11008406

**Explanation:** Processor unit VPD mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

11008409

**Explanation:** No processor installed

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

11008413

**Explanation:** Invalid processor VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

11008414

**Explanation:** Invalid processor VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

11008415

**Explanation:** Invalid processor 3 VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**Failing Item:**

- ANYPROC

---

11008416

**Explanation:** Invalid processor 4 VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC

---

11008423

**Explanation:** No processor VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

11008424

**Explanation:** No processor VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

11008430

**Explanation:** The configuration ID is incorrect.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- IDPART

---

11008432

**Explanation:** The configuration ID is incorrect.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- IDPART

**11008442**

**Explanation:** An attempt was made to enable TurboMode, but one or more processor cards in the system is not TurboMode-capable.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART

**11008443**

**Explanation:** A drawer was added to a system that has TurboMode enabled, but the newly-added drawer is not TurboMode-capable.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART

**11008444**

**Explanation:** A TurboMode register failed.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART

**11008450**

**Explanation:** SPCN configuration mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

**11008451**

**Explanation:** SPCN configuration mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

**11008452**

**Explanation:** Wrong power supply installed.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

**11008453**

**Explanation:** There is an extra processor voltage regulator in the system.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

**11008454**

**Explanation:** A fan is installed at location Un-A3 in a single-socket system. This configuration is not valid.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

**11008455**

**Explanation:** Power supply missing

**Response:** Follow the instructions for the items listed in the FRU List.

## 11008456 • 110084A4

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11008456

**Explanation:** Power supply missing

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11008457

**Explanation:** The wrong processor VRMs are installed in the system; high-power VRMs are required.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

### 11008458

**Explanation:** The wrong processor VRM(s) are installed in the system; high-power VRMs are required.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

### 11008460

**Explanation:** All PWR nodes guarded

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

### 11008480

**Explanation:** The DIMM or DIMM controller ID data is missing or corrupt.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

**Failing Item:**

- FSPSP04

---

### 110084A1

**Explanation:** Invalid power distribution backplane VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART

---

### 110084A2

**Explanation:** Power distribution backplane mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

### 110084A3

**Explanation:** Invalid service processor card VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

### 110084A4

**Explanation:** Service processor card mismatch.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

**11008700**

**Explanation:** BPC A lost input power

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR2402

**11008701**

**Explanation:** BPC B lost input power

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR2402

**11008710**

**Explanation:** DCA 1 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**11008711**

**Explanation:** DCA 2 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**11008712**

**Explanation:** DCA 3 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**11008713**

**Explanation:** DCA 4 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**11008714**

**Explanation:** DCA 5 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**11008715**

**Explanation:** DCA 6 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**11008716**

**Explanation:** DCA 7 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**11008717**

**Explanation:** DCA 8 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**11008718**

**Explanation:** DCA 10 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**1100871A**

**Explanation:** DCA 11 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

## 1100871B • 11008733

**Problem determination:** No additional problem determination.

---

### 1100871B

**Explanation:** DCA 12 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 1100871C

**Explanation:** DCA 13 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 1100871D

**Explanation:** DCA 14 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 1100871E

**Explanation:** DCA 15 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 1100871F

**Explanation:** DCA 16 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 11008720

**Explanation:** BPC A Ethernet communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

---

### 11008721

**Explanation:** BPC B Ethernet communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 11008724

**Explanation:** BPC A machine type/model/serial number mismatch

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 11008725

**Explanation:** BPC B machine type/model/serial number mismatch

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 11008731

**Explanation:** BPC critical fault; none of the nodes in the system can be powered on.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 11008732

**Explanation:** BPC critical fault; there's a CEC cage ID mismatch due to a cabling error.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

### 11008733

**Explanation:** BPC critical fault; no nodes are present to power on.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

---

**11008734**

**Explanation:** BPC fault; service processor error log collection failed.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008735**

**Explanation:** Service processor fault; no BPC IP addresses were found.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008740**

**Explanation:** BPC A failed to reach standby.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008741**

**Explanation:** BPC B failed to reach standby.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.





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## (1402) Reference codes

The bulk power subsystem reference codes are issued from the 24-inch power subsystem and are meant to be serviced through the management console. This list of (1402) reference codes is included here for informational use only.

**Note:** Serviceable actions for the following SRCs require that you use the management console to access more specific information, including isolation procedures, MAPs, and instruction on how to remove and replace parts.

---

### 14020018

**Explanation:** The P1 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P1\_NODE

---

### 14020019

**Explanation:** One VTM has broadcast an alert from the indicated node. This is an informational only SRC and has no system impact.

---

### 14020020

**Explanation:** The P2 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P2\_NODE

---

### 14020021

**Explanation:** The P3 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P3\_NODE

---

### 14020022

**Explanation:** The P4 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P4\_NODE

---

### 14020023

**Explanation:** The P5 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P5\_NODE

---

### 14020024

**Explanation:** The P6 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P6\_NODE

---

### 14020025

**Explanation:** The P7 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P7\_NODE

---

### 14020026

**Explanation:** The P8 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P8\_NODE

---

### 14020027

**Explanation:** The P9 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P9\_NODE

---

### 14020028

**Explanation:** The P10 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P10\_NODE

---

### 14020029

**Explanation:** The P11 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P11\_NODE

---

### 14020030

## 14020056 • 14020075

**Explanation:** The P12 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P12\_NODE
- 

### 14020056

**Explanation:** Water Conditioning Unit number three is defective.

**Failing Item:**

- MDAW-3
  - MWU-3
- 

### 14020057

**Explanation:** Water Conditioning Unit number four is defective.

**Failing Item:**

- MDAW-4
  - MWU-4
- 

### 14020058

**Explanation:** Water Conditioning Unit number one is defective.

**Failing Item:**

- MDAW-1
  - MWU-1
- 

### 14020059

**Explanation:** Water Conditioning Unit number two is defective.

**Failing Item:**

- MDAW-2
  - MWU-2
- 

### 14020060

**Explanation:** Air Moving Device number one is defective.

**Failing Item:**

- MDAA-1
  - MSAA-1
- 

### 14020061

**Explanation:** Air Moving Device number two is defective.

**Failing Item:**

- MDAA-2
  - MSAA-2
- 

---

### 14020062

**Explanation:** Air Moving Device number three is defective.

**Failing Item:**

- MDAA-3
  - MSAA-3
- 

### 14020063

**Explanation:** Air Moving Device number four is defective.

**Failing Item:**

- MDAA-4
  - MSAA-4
- 

### 14020072

**Explanation:** The ambient room temperature is out of specification (to hot). The sensors are located in the EPO panel and read/converted by the BPC or BPCH.

**Failing Item:**

- NOT\_A\_BPA\_FRU
- 

### 14020073

**Explanation:** The ambient room temperature is out of specification (to cold). The sensors are located in the EPO panel and read/converted by the BPC or BPCH.

**Failing Item:**

- NOT\_A\_BPA\_FRU
- 

### 14020074

**Explanation:** The chilled input water to MWU1 is out of specification (to cold) or there is an issue with flow. (Monitored by MWU1) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU
- 

### 14020075

**Explanation:** The chilled input water to MWU2 is out of specification (to cold) or there is an issue with flow. (Monitored by MWU2) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU
-

---

**14020076**

**Explanation:** The chilled input water to MWU1 is out of specification (to Hot) or there is an issue with flow. (Monitored by MWU1) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU
- 

**14020077**

**Explanation:** The chilled input water to MWU2 is out of specification (to Hot) or there is an issue with flow. ((Monitored by MWU2) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU
- 

**14020078**

**Explanation:** Logic on a PU book has reached a warning level. Next level of support should be notified of potential problem.

---

**14020079**

**Explanation:** All DCAs have detected a critical logic over temperature in the called PU enclosure.

**Failing Item:**

- ANY-NODE
- 

**1402007A**

**Explanation:** A fault has been detected on MCM1 in the PU book indicated in failure information. See Power fault reason code for further information and contact next level of support.

**Failing Item:**

- MCM1
- 

**1402007B**

**Explanation:** A fault has been detected on MCM2 in the PU book indicated in failure information. See Power fault reason code for further information and contact next level of support.

**Failing Item:**

- MCM2
- 

**1402007C**

**Explanation:** A fault has been detected on MCM3 in the PU book indicated in failure information. See Power fault reason code for further information and contact next level of support.

**Failing Item:**

- MCM3
- 

**1402007D**

**Explanation:** A fault has been detected on MCM4 in the PU book indicated in failure information. See Power fault reason code for further information and contact next level of support.

**Failing Item:**

- MCM4
- 

**1402007E**

**Explanation:** There is a problem with sensed and passed configuration of the MCMs that are installed in the system.

---

**1402007F**

**Explanation:** LGA shorts test has failed.

**Failing Item:**

- MCM1
  - MCM2
  - ANY-NODE
- 

**14020080**

**Explanation:** All DCAs in CEC assembly have recieved bad voltage settings from VPD. Contact next level of support for resolution of this issue. The affected hardware will not power on.

---

**14020081**

**Explanation:** Input power to BPA A has been lost or partially lost.

**Failing Item:**

- BPR-1A
  - BPR-2A
  - BPR-3A
  - CBL-PWRC-BPE-A1-PWR
  - BPC-A
  - BPE-BOARD-A
- 

**14020082**

**Explanation:** The input power to BPA B has been lost or partially lost.

**Failing Item:**

- BPR-1B
- BPR-2B
- BPR-3B
- CBL-PWRC-BPE-B1-PWR
- BPC-B

- BPE-BOARD-B

---

14020083

**Explanation:** Input power to BPA A has been lost or partially lost.

**Failing Item:**

- BPR-4A
- BPR-5A
- BPR-6A
- CBL-PWRC-BPE-A2-PWR
- BPC-A
- BPE-BOARD-A

---

14020084

**Explanation:** Input power to BPA B has been lost or partially lost.

**Failing Item:**

- BPR-4B
- BPR-5B
- BPR-6B
- CBL-PWRC-BPE-B2-PWR
- BPC-B
- BPE-BOARD-B

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14020085

**Explanation:** The thermal sensor(s) on a PU book has indicated a thermal problem and one or more DCAs have turned off. Notify next level of support for further action.

---

14020086

**Explanation:** BPA A has determined that there is an unsupported mix of different BPR part numbers. IBM support should identify that the proper parts are in the BPA and which to remove.

---

14020087

**Explanation:** BPA B has determined that there is an unsupported mix of different BPR part numbers. IBM support should identify that the proper parts are in the BPA and which to remove.

---

14020088

**Explanation:** The chilled input water to MWU3 is out of specification (to Hot) or there is an issue with flow. (Monitored by MWU3) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

14020089

**Explanation:** The chilled input water to MWU4 is out of specification (to Hot) or there is an issue with flow. (Monitored by MWU4) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

1402008A

**Explanation:** The chilled input water to MWU3 is out of specification (to cold) or there is an issue with flow. (Monitored by MWU3) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

1402008B

**Explanation:** The chilled input water to MWU4 is out of specification (to cold) or there is an issue with flow. (Monitored by MWU4) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

1402008F

**Explanation:** The system has reached a critical state that indicates a problem with the system input chilled water. If unable to correct condition contact next level of support.

---

14020090

**Explanation:** Input power has reached a low threshold on BPA A line cord 1. Input should be corrected or contact next level of service support for assistance.

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14020091

**Explanation:** Input power has reached a high threshold on BPA A line cord 2. Input should be corrected or contact next level of service support for assistance.

---

14020092

**Explanation:** Input power has reached a low threshold on BPA B line cord 1. Input should be corrected or contact next level of service support for assistance.

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**14020093**

**Explanation:** Input power has reached a high threshold on BPA B line cord 2. Input should be corrected or contact next level of service support for assistance.

---

**140200F0**

**Explanation:** The temperature sensed in a PU book has reached a warning level. Next level of support should be notified of potential problem.

---

**140200F1**

**Explanation:** The temperature sensed in a PU book has returned to normal from a warning level. Next level of support should be notified of potential problem.

---

**140200F2**

**Explanation:** The temperature sensed in a PU book is approaching a critical level. Next level of support should be notified of potential problem.

---

**140200F3**

**Explanation:** The temperature sensed in a PU book has returned to normal. Next level of support should be notified of potential problem.

---

**140200F4**

**Explanation:** The room temperature sensed at the UEPO switch has returned to normal. Next level of support should be notified of potential problem.

---

**140200F5**

**Explanation:** The input water temperature sensed by MWU1 has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**140200F6**

**Explanation:** The input water temperature sensed by MWU2 has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

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**140200F7**

**Explanation:** Low power mode has been entered. This src is for information only and is not by itself an indication of error.

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**140200F8**

**Explanation:** Low power mode has been exited. This src is for information only and is not by itself an indication of error.

---

**140200F9**

**Explanation:** The input water temperature sensed by MWU3 has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

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**140200FA**

**Explanation:** The input water temperature sensed by MWU4 has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

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**140200FB**

**Explanation:** The temperature sensed by BPA A has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**140200FC**

**Explanation:** The temperature sensed by BPA B has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

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**140200FD**

**Explanation:** The Ambient Room Humidity has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**140200FE**

**Explanation:** The Room Dew Point value has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**140200FF**

**Explanation:** A water issue has been sensed in specified enclosure. Check all water connections to the drawer/cage. Next level of support should be notified of potential problem.

**Failing Item:**

- CAGE1
-

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14020100

**Explanation:** The voltage on voltage level 0 has reached the warning undervoltage limit for the specified cage or drawer.

---

14020101

**Explanation:** The voltage on voltage level 1 has reached the warning undervoltage limit for the specified cage or drawer.

---

14020102

**Explanation:** The voltage on voltage level 2 has reached the warning undervoltage limit for the specified cage or drawer.

---

14020103

**Explanation:** The voltage on voltage level 3 has reached the warning undervoltage limit for the specified cage or drawer.

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14020104

**Explanation:** The voltage on voltage level 4 has reached the warning undervoltage limit for the specified cage or drawer.

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14020105

**Explanation:** The voltage on voltage level 5 has reached the warning undervoltage limit for the specified cage or drawer.

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14020106

**Explanation:** The voltage on voltage level 6 has reached the warning undervoltage limit for the specified cage or drawer.

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14020107

**Explanation:** The voltage on voltage level 7 has reached the warning undervoltage limit for the specified cage or drawer.

---

14020108

**Explanation:** The voltage on voltage level 8 has reached the warning undervoltage limit for the specified cage or drawer.

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14020109

**Explanation:** The voltage on voltage level 9 has reached the warning undervoltage limit for the specified cage or drawer.

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14020110

**Explanation:** The voltage on voltage level 10 has reached the warning undervoltage limit for the specified cage or drawer.

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14020111

**Explanation:** The voltage on voltage level 11 has reached the warning undervoltage limit for the specified cage or drawer.

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14020112

**Explanation:** The voltage on voltage level 12 has reached the warning undervoltage limit for the specified cage or drawer.

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14020113

**Explanation:** The voltage on voltage level 13 has reached the warning undervoltage limit for the specified cage or drawer.

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14020114

**Explanation:** The voltage on voltage level 14 has reached the warning undervoltage limit for the specified cage or drawer.

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14020115

**Explanation:** The voltage on voltage level 15 has reached the warning undervoltage limit for the specified cage or drawer.

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14020116

**Explanation:** The voltage on voltage level 16 has reached the warning undervoltage limit for the specified cage or drawer.

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14020117

**Explanation:** The voltage on voltage level 17 has reached the warning undervoltage limit for the specified cage or drawer.

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14020118

**Explanation:** The voltage on voltage level 18 has reached the warning undervoltage limit for the specified cage or drawer.

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14020119

**Explanation:** The voltage on voltage level 19 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020120**

**Explanation:** The voltage on voltage level 20 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14020121**

**Explanation:** The voltage on voltage level 21 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14020122**

**Explanation:** The voltage on voltage level 22 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14020123**

**Explanation:** The voltage on voltage level 23 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020124**

**Explanation:** The voltage on voltage level 24 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020125**

**Explanation:** The voltage on voltage level 25 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020126**

**Explanation:** The voltage on voltage level 26 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020127**

**Explanation:** The voltage on voltage level 27 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020128**

**Explanation:** The voltage on voltage level 28 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020129**

**Explanation:** The voltage on voltage level 29 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020130**

**Explanation:** The voltage on voltage level 30 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020131**

**Explanation:** The voltage on voltage level 31 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020132**

**Explanation:** The voltage on voltage level 32 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020133**

**Explanation:** The voltage on voltage level 33 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14020134**

**Explanation:** The voltage on voltage level 34 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14020135**

**Explanation:** There has been an internal bulk power software error.

**Failing Item:**

- NOT\_A\_BPA\_FRU

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**14020136**

**Explanation:** A PU book has entered throttling mode.

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**14020137**

**Explanation:** The voltage on voltage level 37 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020138**

**Explanation:** The voltage on voltage level 38 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020139**

**Explanation:** The voltage on voltage level 39 has reached the warning undervoltage limit for the specified cage or drawer.

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14020140

**Explanation:** The voltage on voltage level 40 has reached the warning undervoltage limit for the specified cage or drawer.

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14020141

**Explanation:** The voltage on voltage level 41 has reached the warning undervoltage limit for the specified cage or drawer.

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14020142

**Explanation:** The voltage on voltage level 42 has reached the warning undervoltage limit for the specified cage or drawer.

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14020143

**Explanation:** The voltage on voltage level 43 has reached the warning undervoltage limit for the specified cage or drawer.

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14020144

**Explanation:** The voltage on voltage level 44 has reached the warning undervoltage limit for the specified cage or drawer.

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14020145

**Explanation:** The voltage on voltage level 45 has reached the warning undervoltage limit for the specified cage or drawer.

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14020146

**Explanation:** The voltage on voltage level 46 has reached the warning undervoltage limit for the specified cage or drawer.

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14020147

**Explanation:** The voltage on voltage level 47 has reached the warning undervoltage limit for the specified cage or drawer.

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14020148

**Explanation:** The voltage on voltage level 48 has reached the warning undervoltage limit for the specified cage or drawer.

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14020149

**Explanation:** The voltage on voltage level 49 has reached the warning undervoltage limit for the specified cage or drawer.

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14020150

**Explanation:** The voltage on voltage level 35 has reached the warning undervoltage limit for the specified cage or drawer.

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14020151

**Explanation:** The voltage on voltage level 36 has reached the warning undervoltage limit for the specified cage or drawer.

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14020160

**Explanation:** DCA 1's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020161

**Explanation:** DCA 1's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020162

**Explanation:** DCA 1's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020163

**Explanation:** DCA 2's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-4
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
-



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**14020164**

**Explanation:** DCA 2's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-5
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020165**

**Explanation:** DCA 2's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-6
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020166**

**Explanation:** DCA 1's Air Moving Device number four is defective.

**Failing Item:**

- MSAA-7
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020167**

**Explanation:** DCA 1's Air Moving Device number five is defective.

**Failing Item:**

- MSAA-8
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020168**

**Explanation:** DCA 1's Air Moving Device number six is defective.

**Failing Item:**

- MSAA-9
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

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**14020169**

**Explanation:** DCA 2's Air Moving Device number four is defective.

**Failing Item:**

- MSAA-10
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020170**

**Explanation:** DCA 2's Air Moving Device number five is defective.

**Failing Item:**

- MSAA-11
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020171**

**Explanation:** DCA 2's Air Moving Device number six is defective.

**Failing Item:**

- MSAA-12
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020190**

**Explanation:** Input power has reached a high threshold on BPA A line cord 1. Input should be corrected or contact next level of service support for assistance.

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**14020191**

**Explanation:** Input power has reached a high threshold on BPA A line cord 2. Input should be corrected or contact next level of service support for assistance.

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**14020192**

**Explanation:** Input power has reached a high threshold on BPA B line cord 1. Input should be corrected or contact next level of service support for assistance.

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14020193

**Explanation:** Input power has reached a high threshold on BPA B line cord 2. Input should be corrected or contact next level of service support for assistance.

---

14020200

**Explanation:** The voltage on voltage level 0 has reached the warning over voltage limit for the specified cage or drawer.

---

14020201

**Explanation:** The voltage on voltage level 1 has reached the warning over voltage limit for the specified cage or drawer.

---

14020202

**Explanation:** The voltage on voltage level 2 has reached the warning over voltage limit for the specified cage or drawer.

---

14020203

**Explanation:** The voltage on voltage level 3 has reached the warning over voltage limit for the specified cage or drawer.

---

14020204

**Explanation:** The voltage on voltage level 4 has reached the warning over voltage limit for the specified cage or drawer.

---

14020205

**Explanation:** The voltage on voltage level 5 has reached the warning over voltage limit for the specified cage or drawer.

---

14020206

**Explanation:** The voltage on voltage level 6 has reached the warning over voltage limit for the specified cage or drawer.

---

14020207

**Explanation:** The voltage on voltage level 7 has reached the warning over voltage limit for the specified cage or drawer.

---

14020208

**Explanation:** The voltage on voltage level 8 has reached the warning over voltage limit for the specified cage or drawer.

---

14020209

**Explanation:** The voltage on voltage level 8 has reached the warning over voltage limit for the specified cage or drawer.

---

14020210

**Explanation:** The voltage on voltage level 10 has reached the warning over voltage limit for the specified cage or drawer.

---

14020211

**Explanation:** The voltage on voltage level 11 has reached the warning over voltage limit for the specified cage or drawer.

---

14020212

**Explanation:** The voltage on voltage level 12 has reached the warning over voltage limit for the specified cage or drawer.

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14020213

**Explanation:** The voltage on voltage level 13 has reached the warning over voltage limit for the specified cage or drawer.

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14020214

**Explanation:** The voltage on voltage level 14 has reached the warning over voltage limit for the specified cage or drawer.

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14020215

**Explanation:** The voltage on voltage level 15 has reached the warning over voltage limit for the specified cage or drawer.

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14020216

**Explanation:** The voltage on voltage level 16 has reached the warning over voltage limit for the specified cage or drawer.

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14020217

**Explanation:** The voltage on voltage level 17 has reached the warning over voltage limit for the specified cage or drawer.

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**14020218**

**Explanation:** The voltage on voltage level 18 has reached the warning over voltage limit for the specified cage or drawer.

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**14020219**

**Explanation:** The voltage on voltage level 19 has reached the warning over voltage limit for the specified cage or drawer.

---

**14020220**

**Explanation:** The voltage on voltage level 20 has reached the warning over voltage limit for the specified cage or drawer.

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**14020221**

**Explanation:** The voltage on voltage level 21 has reached the warning over voltage limit for the specified cage or drawer.

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**14020222**

**Explanation:** The voltage on voltage level 22 has reached the warning over voltage limit for the specified cage or drawer.

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**14020223**

**Explanation:** The voltage on voltage level 23 has reached the warning over voltage limit for the specified cage or drawer.

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**14020224**

**Explanation:** The voltage on voltage level 24 has reached the warning over voltage limit for the specified cage or drawer.

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**14020225**

**Explanation:** The voltage on voltage level 25 has reached the warning over voltage limit for the specified cage or drawer.

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**14020226**

**Explanation:** The voltage on voltage level 26 has reached the warning over voltage limit for the specified cage or drawer.

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**14020227**

**Explanation:** The voltage on voltage level 27 has reached the warning over voltage limit for the specified cage or drawer.

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**14020228**

**Explanation:** The voltage on voltage level 28 has reached the warning over voltage limit for the specified cage or drawer.

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**14020229**

**Explanation:** The voltage on voltage level 29 has reached the warning over voltage limit for the specified cage or drawer.

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**14020230**

**Explanation:** The voltage on voltage level 30 has reached the warning over voltage limit for the specified cage or drawer.

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**14020231**

**Explanation:** The voltage on voltage level 31 has reached the warning over voltage limit for the specified cage or drawer.

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**14020232**

**Explanation:** The voltage on voltage level 32 has reached the warning over voltage limit for the specified cage or drawer.

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**14020233**

**Explanation:** The voltage on voltage level 33 has reached the warning over voltage limit for the specified cage or drawer.

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**14020234**

**Explanation:** The voltage on voltage level 34 has reached the warning over voltage limit for the specified cage or drawer.

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**14020235**

**Explanation:** The voltage on voltage level 35 has reached the warning over voltage limit for the specified cage or drawer.

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**14020236**

**Explanation:** The voltage on voltage level 36 has reached the warning over voltage limit for the specified cage or drawer.

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**14020237**

**Explanation:** The voltage on voltage level 37 has reached the warning over voltage limit for the specified cage or drawer.

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14020238

**Explanation:** The voltage on voltage level 38 has reached the warning over voltage limit for the specified cage or drawer.

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14020239

**Explanation:** The voltage on voltage level 39 has reached the warning over voltage limit for the specified cage or drawer.

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14020240

**Explanation:** The voltage on voltage level 40 has reached the warning over voltage limit for the specified cage or drawer.

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14020241

**Explanation:** The voltage on voltage level 41 has reached the warning over voltage limit for the specified cage or drawer.

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14020242

**Explanation:** The voltage on voltage level 42 has reached the warning over voltage limit for the specified cage or drawer.

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14020243

**Explanation:** The voltage on voltage level 43 has reached the warning over voltage limit for the specified cage or drawer.

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14020244

**Explanation:** The voltage on voltage level 44 has reached the warning over voltage limit for the specified cage or drawer.

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14020245

**Explanation:** The voltage on voltage level 45 has reached the warning over voltage limit for the specified cage or drawer.

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14020246

**Explanation:** The voltage on voltage level 46 has reached the warning over voltage limit for the specified cage or drawer.

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14020247

**Explanation:** The voltage on voltage level 47 has reached the warning over voltage limit for the specified cage or drawer.

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14020248

**Explanation:** The voltage on voltage level 48 has reached the warning over voltage limit for the specified cage or drawer.

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14020249

**Explanation:** The voltage on voltage level 49 has reached the warning over voltage limit for the specified cage or drawer.

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14020260

**Explanation:** DCA 1's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

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14020261

**Explanation:** DCA 1's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

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14020262

**Explanation:** DCA 1's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

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14020263

**Explanation:** DCA 2's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-4
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
-

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**14020264**

**Explanation:** DCA 2's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-5
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020265**

**Explanation:** DCA 2's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-6
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020266**

**Explanation:** DCA 2's Air Moving Device number four is defective.

**Failing Item:**

- MSAA-7
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020267**

**Explanation:** DCA 1's Air Moving Device number five is defective.

**Failing Item:**

- MSAA-8
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020268**

**Explanation:** DCA 1's Air Moving Device number six is defective.

**Failing Item:**

- MSAA-9
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

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**14020269**

**Explanation:** DCA 2's Air Moving Device number four is defective.

**Failing Item:**

- MSAA-10
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020270**

**Explanation:** DCA 2's Air Moving Device number five is defective.

**Failing Item:**

- MSAA-11
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020271**

**Explanation:** DCA 2's Air Moving Device number six is defective.

**Failing Item:**

- MSAA-12
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020300**

**Explanation:** An over current condition has been detected on voltage level 0 for the specified cage or drawer.

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**14020301**

**Explanation:** An over current condition has been detected on voltage level 1 for the specified cage or drawer.

---

**14020302**

**Explanation:** An over current condition has been detected for voltage level 2 for the specified cage or drawer.

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**14020303**

**Explanation:** An over current condition has been detected for voltage level 3 for the specified cage or drawer.

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14020304

**Explanation:** An over current condition has been detected for voltage level 4 level for the specified cage or drawer.

---

14020305

**Explanation:** An over current condition has been detected for voltage level 5 for the specified cage or drawer.

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14020306

**Explanation:** An over current condition has been detected for voltage level 6 for the specified cage or drawer.

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14020307

**Explanation:** An over current condition has been detected for voltage level 7 for the specified cage or drawer.

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14020308

**Explanation:** An over current condition has been detected for voltage level 8 for the specified cage or drawer.

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14020309

**Explanation:** An over current condition has been detected for voltage level 9 for the specified cage or drawer.

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14020310

**Explanation:** An over current condition has been detected for voltage level 10 for the specified cage or drawer.

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14020311

**Explanation:** An over current condition has been detected for voltage level 11 for the specified cage or drawer.

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14020312

**Explanation:** An over current condition has been detected for voltage level 12 for the specified cage or drawer.

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14020313

**Explanation:** An over current condition has been detected for voltage level 13 for the specified cage or drawer.

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14020314

**Explanation:** An over current condition has been detected for voltage level 14 for the specified cage or drawer.

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14020315

**Explanation:** An over current condition has been detected for voltage level 15 for the specified cage or drawer.

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14020316

**Explanation:** An over current condition has been detected for voltage level 16 for the specified cage or drawer.

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14020317

**Explanation:** An over current condition has been detected for voltage level 17 for the specified cage or drawer.

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14020318

**Explanation:** An over current condition has been detected for voltage level 18 for the specified cage or drawer.

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14020319

**Explanation:** An over current condition has been detected for voltage level 19 for the specified cage or drawer.

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14020320

**Explanation:** An over current condition has been detected for voltage level 20 for the specified cage or drawer.

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14020321

**Explanation:** An over current condition has been detected for voltage level 21 for the specified cage or drawer.

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14020322

**Explanation:** An over current condition has been detected for voltage level 22 for the specified cage or drawer.

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14020323

**Explanation:** An over current condition has been detected for voltage level 13 for the specified cage or drawer.

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**14020324**

**Explanation:** An over current condition has been detected for voltage level 24 for the specified cage or drawer.

---

**14020325**

**Explanation:** An over current condition has been detected for voltage level 25 for the specified cage or drawer.

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**14020326**

**Explanation:** An over current condition has been detected for voltage level 26 for the specified cage or drawer.

---

**14020327**

**Explanation:** An over current condition has been detected for voltage level 27 for the specified cage or drawer.

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**14020328**

**Explanation:** An over current condition has been detected for voltage level 28 for the specified cage or drawer.

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**14020329**

**Explanation:** An over current condition has been detected for voltage level 29 for the specified cage or drawer.

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**14020330**

**Explanation:** An over current condition has been detected for voltage level 30 for the specified cage or drawer.

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**14020331**

**Explanation:** An over current condition has been detected for voltage level 31 for the specified cage or drawer.

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**14020332**

**Explanation:** An over current condition has been detected for voltage level 32 for the specified cage or drawer.

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**14020333**

**Explanation:** An over current condition has been detected for voltage level 33 for the specified cage or drawer.

---

**14020334**

**Explanation:** An over current condition has been detected for voltage level 34 for the specified cage or drawer.

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**14020335**

**Explanation:** An over current condition has been detected for voltage level 35 for the specified cage or drawer.

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**14020336**

**Explanation:** An over current condition has been detected for voltage level 36 for the specified cage or drawer.

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**14020337**

**Explanation:** An over current condition has been detected for voltage level 37 for the specified cage or drawer.

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**14020338**

**Explanation:** An over current condition has been detected for voltage level 38 for the specified cage or drawer.

---

**14020339**

**Explanation:** An over current condition has been detected for voltage level 39 for the specified cage or drawer.

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**14020340**

**Explanation:** An over current condition has been detected for voltage level 40 for the specified cage or drawer.

---

**14020341**

**Explanation:** An over current condition has been detected for voltage level 41 for the specified cage or drawer.

---

**14020342**

**Explanation:** An over current condition has been detected for voltage level 42 for the specified cage or drawer.

---

**14020343**

**Explanation:** An over current condition has been detected for voltage level 43 for the specified cage or drawer.

---

14020344

**Explanation:** An over current condition has been detected for voltage level 44 for the specified cage or drawer.

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14020345

**Explanation:** An over current condition has been detected for voltage level 45 for the specified cage or drawer.

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14020346

**Explanation:** An over current condition has been detected for voltage level 46 for the specified cage or drawer.

---

14020347

**Explanation:** An over current condition has been detected for voltage level 47 for the specified cage or drawer.

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14020348

**Explanation:** An over current condition has been detected for voltage level 48 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL48

---

14020349

**Explanation:** An over current condition has been detected for voltage level 49 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL49

---

14020360

**Explanation:** DCA 1's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
- IO\_DCA-01

---

14020361

**Explanation:** DCA 1's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2
- IO\_DCA-01

---

14020362

**Explanation:** DCA 1's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
- IO\_DCA-01

---

14020363

**Explanation:** DCA 2's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-4
- IO\_DCA-02

---

14020364

**Explanation:** DCA 2's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-5
- IO\_DCA-02

---

14020365

**Explanation:** DCA 2's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-6
- IO\_DCA-02

---

14020400

**Explanation:** An over voltage condition has been detected for voltage level 0 for the specified cage or drawer.

---

14020401

**Explanation:** An over voltage condition has been detected for voltage level 1 for the specified cage or drawer.

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14020402

**Explanation:** An over voltage condition has been detected for voltage level 2 for the specified cage or drawer.

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14020403

**Explanation:** An over voltage condition has been detected for voltage level 3 for the specified cage or drawer.



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**14020404**

**Explanation:** An over voltage condition has been detected for voltage level 4 for the specified cage or drawer.

---

**14020405**

**Explanation:** An over voltage condition has been detected for voltage level 5 for the specified cage or drawer.

---

**14020406**

**Explanation:** An over voltage condition has been detected for voltage level 6 for the specified cage or drawer.

---

**14020407**

**Explanation:** An over voltage condition has been detected for voltage level 7 for the specified cage or drawer.

---

**14020408**

**Explanation:** An over voltage condition has been detected for voltage level 8 specified cage or drawer.

---

**14020409**

**Explanation:** An over voltage condition has been detected for voltage level 9 specified cage or drawer.

---

**14020410**

**Explanation:** An over voltage condition has been detected for voltage level 10 specified cage or drawer.

---

**14020411**

**Explanation:** An over voltage condition has been detected for voltage level 11 specified cage or drawer.

---

**14020412**

**Explanation:** An over voltage condition has been detected for voltage level 12 specified cage or drawer.

---

**14020413**

**Explanation:** An over voltage condition has been detected for voltage level 13 specified cage or drawer.

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**14020414**

**Explanation:** An over voltage condition has been detected for voltage level 14 for the specified cage or drawer.

---

**14020415**

**Explanation:** An over voltage condition has been detected for voltage level 15 for the specified cage or drawer.

---

**14020416**

**Explanation:** An over voltage condition has been detected for voltage level 16 for the specified cage or drawer.

---

**14020417**

**Explanation:** An over voltage condition has been detected for voltage level 17 for the specified cage or drawer.

---

**14020418**

**Explanation:** An over voltage condition has been detected for voltage level 18 specified cage or drawer.

---

**14020419**

**Explanation:** An over voltage condition has been detected for voltage level 19 specified cage or drawer.

---

**14020420**

**Explanation:** An over voltage condition has been detected for voltage level 20 specified cage or drawer.

---

**14020421**

**Explanation:** An over voltage condition has been detected for voltage level 21 specified cage or drawer.

---

**14020422**

**Explanation:** An over voltage condition has been detected for voltage level 22 specified cage or drawer.

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**14020423**

**Explanation:** An over voltage condition has been detected for voltage level 23 specified cage or drawer.

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**14020424**

**Explanation:** An over voltage condition has been detected for voltage level 24 for the specified cage or drawer.

---

**14020425**

**Explanation:** An over voltage condition has been detected for voltage level 25 for the specified cage or drawer.

---

14020426

**Explanation:** An over voltage condition has been detected for voltage level 26 for the specified cage or drawer.

---

14020427

**Explanation:** An over voltage condition has been detected for voltage level 27 for the specified cage or drawer.

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14020428

**Explanation:** An over voltage condition has been detected for voltage level 28 specified cage or drawer.

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14020429

**Explanation:** An over voltage condition has been detected for voltage level 29 specified cage or drawer.

---

14020430

**Explanation:** An over voltage condition has been detected for voltage level 30 specified cage or drawer.

---

14020431

**Explanation:** An over voltage condition has been detected for voltage level 31 specified cage or drawer.

---

14020432

**Explanation:** An over voltage condition has been detected for voltage level 32 specified cage or drawer.

---

14020433

**Explanation:** An over voltage condition has been detected for voltage level 33 specified cage or drawer.

---

14020434

**Explanation:** An over voltage condition has been detected for voltage level 34 for the specified cage or drawer.

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14020435

**Explanation:** An over voltage condition has been detected for voltage level 35 for the specified cage or drawer.

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14020436

**Explanation:** An over voltage condition has been detected for voltage level 36 for the specified cage or drawer.

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14020437

**Explanation:** An over voltage condition has been detected for voltage level 37 for the specified cage or drawer.

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14020438

**Explanation:** An over voltage condition has been detected for voltage level 38 specified cage or drawer.

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14020439

**Explanation:** An over voltage condition has been detected for voltage level 39 specified cage or drawer.

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14020440

**Explanation:** An over voltage condition has been detected for voltage level 40 specified cage or drawer.

---

14020441

**Explanation:** An over voltage condition has been detected for voltage level 41 specified cage or drawer.

---

14020442

**Explanation:** An over voltage condition has been detected for voltage level 42 specified cage or drawer.

---

14020443

**Explanation:** An over voltage condition has been detected for voltage level 43 specified cage or drawer.

---

14020444

**Explanation:** An over voltage condition has been detected for voltage level 44 for the specified cage or drawer.

---

14020445

**Explanation:** An over voltage condition has been detected for voltage level 45 for the specified cage or drawer.

---

14020446

**Explanation:** An over voltage condition has been detected for voltage level 46 for the specified cage or drawer.

---

14020447

**Explanation:** An over voltage condition has been detected for voltage level 47 for the specified cage or drawer.

---

**14020448**

**Explanation:** An over voltage condition has been detected for voltage level 48 specified cage or drawer.

**Failing Item:**

- FRULEVEL48
- 

**14020449**

**Explanation:** An over voltage condition has been detected for voltage level 49 specified cage or drawer.

**Failing Item:**

- FRULEVEL49
- 

**14020501**

**Explanation:** Blower number one in the disk enclosure is defective.

**Failing Item:**

- MSAA-1
- 

**14020502**

**Explanation:** Blower number two in the disk enclosure is defective.

**Failing Item:**

- MSAA-2
- 

**14020503**

**Explanation:** Blower number three in the disk enclosure is defective.

**Failing Item:**

- MSAA-3
- 

**14020504**

**Explanation:** Blower number four in the disk enclosure is defective.

**Failing Item:**

- MSAA-4
- 

**14020505**

**Explanation:** Blower number five in the disk enclosure is defective.

**Failing Item:**

- MSAA-5
- 

**14020506**

**Explanation:** Blower number six in the disk enclosure is defective.

**Failing Item:**

- MSAA-6
- 

**14020507**

**Explanation:** Blower number seven in the disk enclosure is defective.

**Failing Item:**

- MSAA-7
- 

**14020508**

**Explanation:** Blower number eight in the disk enclosure is defective.

**Failing Item:**

- MSAA-8
- 

**14020509**

**Explanation:** Blower number nine in the disk enclosure is defective.

**Failing Item:**

- MSAA-9
- 

**14020510**

**Explanation:** Blower number ten in the disk enclosure is defective.

**Failing Item:**

- MSAA-10
- 

**14020511**

**Explanation:** Blower number eleven in the disk enclosure is defective.

**Failing Item:**

- MSAA-11
- 

**14020512**

**Explanation:** Blower number twelve in the disk enclosure is defective.

**Failing Item:**

- MSAA-12
- 

**14020551**

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
-

---

14020552

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020553

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020554

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2

---

14020555

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020556

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020557

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3

---

14020558

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020559

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

1402055A

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4

---

1402055B

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

1402055C

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

**1402055D**

**Explanation:** An error has been detected on port card five.

**Failing Item:**

- PORTCARD5
- 

**1402055E**

**Explanation:** An error has been detected on port card five.

**Failing Item:**

- PORTCARD5
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**1402055F**

**Explanation:** An error has been detected on port card five.

**Failing Item:**

- PORTCARD5
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020560**

**Explanation:** An error has been detected on port card six.

**Failing Item:**

- PORTCARD6
- 

**14020561**

**Explanation:** An error has been detected on port card six.

**Failing Item:**

- PORTCARD6
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020562**

**Explanation:** An error has been detected on port card six.

**Failing Item:**

- PORTCARD6
  - IO\_DCA-02
  - IO\_DCA-01
- 

- MIDPLANE
- 

**14020563**

**Explanation:** An error has been detected on port card seven.

**Failing Item:**

- PORTCARD7
- 

**14020564**

**Explanation:** An error has been detected on port card seven.

**Failing Item:**

- PORTCARD7
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020565**

**Explanation:** An error has been detected on port card seven.

**Failing Item:**

- PORTCARD7
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020566**

**Explanation:** An error has been detected on port card eight.

**Failing Item:**

- PORTCARD8
- 

**14020567**

**Explanation:** An error has been detected on port card eight.

**Failing Item:**

- PORTCARD8
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020568**

**Explanation:** An error has been detected on port card eight.

**Failing Item:**

- PORTCARD8
  - IO\_DCA-02
-

## 14020569 • 14020574

- IO\_DCA-01
- MIDPLANE

---

### 14020569

**Explanation:** An error has been detected on port card nine.

**Failing Item:**

- PORTCARD9

---

### 1402056A

**Explanation:** An error has been detected on port card nine.

**Failing Item:**

- PORTCARD9
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

### 1402056B

**Explanation:** An error has been detected on port card nine.

**Failing Item:**

- PORTCARD9
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

### 1402056C

**Explanation:** An error has been detected on port card ten.

**Failing Item:**

- PORTCARD10

---

### 1402056D

**Explanation:** An error has been detected on port card ten.

**Failing Item:**

- PORTCARD10
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

### 1402056E

**Explanation:** An error has been detected on port card ten.

**Failing Item:**

- PORTCARD10

- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

### 1402056F

**Explanation:** An error has been detected on port card eleven.

**Failing Item:**

- PORTCARD11

---

### 14020570

**Explanation:** An error has been detected on port card eleven.

**Failing Item:**

- PORTCARD11
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

### 14020571

**Explanation:** An error has been detected on port card eleven.

**Failing Item:**

- PORTCARD11
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

### 14020572

**Explanation:** An error has been detected on port card twelve.

**Failing Item:**

- PORTCARD12

---

### 14020573

**Explanation:** An error has been detected on port card twelve.

**Failing Item:**

- PORTCARD12
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

### 14020574

**Explanation:** An error has been detected on port card twelve.

**Failing Item:**

- PORTCARD12
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

**14020575**

**Explanation:** An error has been detected on port card thirteen.

**Failing Item:**

- PORTCARD13

---

**14020576**

**Explanation:** An error has been detected on port card thirteen.

**Failing Item:**

- PORTCARD13
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

**14020577**

**Explanation:** An error has been detected on port card thirteen.

**Failing Item:**

- PORTCARD13
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

**14020578**

**Explanation:** An error has been detected on port card fourteen.

**Failing Item:**

- PORTCARD14

---

**14020579**

**Explanation:** An error has been detected on port card fourteen.

**Failing Item:**

- PORTCARD14
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

**1402057A**

**Explanation:** An error has been detected on port card fourteen.

**Failing Item:**

- PORTCARD14
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

**1402057B**

**Explanation:** An error has been detected on port card fifteen.

**Failing Item:**

- PORTCARD15

---

**1402057C**

**Explanation:** An error has been detected on port card fifteen.

**Failing Item:**

- PORTCARD15
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

**1402057D**

**Explanation:** An error has been detected on port card fifteen.

**Failing Item:**

- PORTCARD15
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

**1402057E**

**Explanation:** An error has been detected on port card sixteen.

**Failing Item:**

- PORTCARD16

---

**1402057F**

**Explanation:** An error has been detected on port card sixteen.

**Failing Item:**

- PORTCARD16
- IO\_DCA-01
- IO\_DCA-02

- MIDPLANE

---

14020580

**Explanation:** An error has been detected on port card sixteen.

**Failing Item:**

- PORTCARD16
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020760

**Explanation:** Disk enclosure Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020761

**Explanation:** Disk enclosure Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020762

**Explanation:** Disk enclosure Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020763

**Explanation:** Disk enclosure Air Moving Device number four is defective.

**Failing Item:**

- MSAA-4
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020764

**Explanation:** Disk enclosure Air Moving Device number five is defective.

**Failing Item:**

- MSAA-5
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020765

**Explanation:** Disk enclosure Air Moving Device number six is defective.

**Failing Item:**

- MSAA-6
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020766

**Explanation:** Disk enclosure Air Moving Device number seven is defective.

**Failing Item:**

- MSAA-7
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020767

**Explanation:** Disk enclosure Air Moving Device number eight is defective.

**Failing Item:**

- MSAA-8
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020768

**Explanation:** Disk enclosure Air Moving Device number nine is defective.

**Failing Item:**

- MSAA-9
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
-



---

**14020769**

**Explanation:** Disk enclosure Air Moving Device number ten is defective.

**Failing Item:**

- MSAA-10
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020770**

**Explanation:** Disk enclosure Air Moving Device number eleven is defective.

**Failing Item:**

- MSAA-11
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020771**

**Explanation:** Disk enclosure Air Moving Device number twelve is defective.

**Failing Item:**

- MSAA-12
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020777**

**Explanation:** This SRC is used to collect data or logs and does not indicate an error or hardware problem. Data will be sent to next level of support.

---

**14020960**

**Explanation:** Disk enclosure Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020961**

**Explanation:** Disk enclosure Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2
- IO\_DCA-02

- IO\_DCA-01
  - MIDPLANE
- 

**14020962**

**Explanation:** Disk enclosure Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020963**

**Explanation:** Disk enclosure Air Moving Device number four is defective.

**Failing Item:**

- MSAA-4
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020964**

**Explanation:** Disk enclosure Air Moving Device number five is defective.

**Failing Item:**

- MSAA-5
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020965**

**Explanation:** Disk enclosure Air Moving Device number six is defective.

**Failing Item:**

- MSAA-6
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020966**

**Explanation:** Disk enclosure Air Moving Device number seven is defective.

**Failing Item:**

- MSAA-7
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020967

**Explanation:** Disk enclosure Air Moving Device number eight is defective.

**Failing Item:**

- MSAA-8
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020968

**Explanation:** Disk enclosure Air Moving Device number nine is defective.

**Failing Item:**

- MSAA-9
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020969

**Explanation:** Disk enclosure Air Moving Device number ten is defective.

**Failing Item:**

- MSAA-10
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020970

**Explanation:** Disk enclosure Air Moving Device number eleven is defective.

**Failing Item:**

- MSAA-11
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020971

**Explanation:** Disk enclosure Air Moving Device number twelve is defective.

**Failing Item:**

- MSAA-12
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020FFF

**Explanation:** Water cooling to an enclosure (drawer/cage) has returned to normal. Next level of support should be notified of potential problem.

**Failing Item:**

- CAGE1

---

14021081

**Explanation:** The VPD in CEC main storage can not be accessed or has a problem that is preventing the CEC from powering on.

**Failing Item:**

- FRUVPDMEMORY

---

14021082

**Explanation:** VPD resolution failure in the cage or drawer.

**Failing Item:**

- FRUVPDBUS

---

14021301

**Explanation:** The DASD backplane is defective.

---

14021302

**Explanation:** The IO planar is defective.

---

14021304

**Explanation:** This is a defective DASD on Backplane one.

---

14021305

**Explanation:** This is a defective DASD on Backplane two.

---

14021306

**Explanation:** This is a defective DASD on Backplane three.

---

14021307

**Explanation:** This is a defective DASD on Backplane four.

---

14021308

**Explanation:** This is a switch riser card.

---

---

**14021309**

**Explanation:** This is a switch PLANAR card.

---

**1402130A**

**Explanation:** An error has been detected on the TRES planar one.

**Failing Item:**

- PLANAR1
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**1402130B**

**Explanation:** An error has been detected on the TRES planar two.

**Failing Item:**

- PLANAR2
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**1402130C**

**Explanation:** An error has been detected on the TRES planar one.

**Failing Item:**

- PLANAR1
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**1402130D**

**Explanation:** An error has been detected on the TRES planar two.

**Failing Item:**

- PLANAR2
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**1402130E**

**Explanation:** An error has been detected on the conduit card.

**Failing Item:**

- CONDUIT
- 

---

**1402130F**

**Explanation:** An error has been detected on the conduit card.

**Failing Item:**

- CONDUIT
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14021310**

**Explanation:** An error has been detected on the conduit card.

**Failing Item:**

- CONDUIT
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14021311**

**Explanation:** An error has been detected on the DASD backplane.

**Failing Item:**

- DASDBACKPLANE
- 

**14021312**

**Explanation:** An error has been detected on the DASD backplane.

**Failing Item:**

- DASDBACKPLANE
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
  - CONDUIT
- 

**14021313**

**Explanation:** An error has been detected on the DASD backplane.

**Failing Item:**

- DASDBACKPLANE
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
  - CONDUIT
-

---

14021314

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
- 

14021315

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
  - CONDUIT
  - DASDBACKPLANE
- 

14021316

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
  - CONDUIT
  - DASDBACKPLANE
- 

14021317

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
- 

14021318

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
  - CONDUIT
  - DASDBACKPLANE
- 

---

14021319

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
  - CONDUIT
  - DASDBACKPLANE
- 

1402131A

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3
- 

1402131B

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
  - CONDUIT
  - DASDBACKPLANE
- 

1402131C

**Explanation:** An error has been detected on the port card three.

**Failing Item:**

- PORTCARD3
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
  - CONDUIT
  - DASDBACKPLANE
- 

1402131D

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
-

---

**1402131E**

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
  - CONDUIT
  - DASDBACKPLANE
- 

**1402131F**

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
  - CONDUIT
  - DASDBACKPLANE
- 

**14022043**

**Explanation:** Bulk power fan one is defective in BPA-A.

**Failing Item:**

- BPF-A1
  - BPC-A
- 

**14022044**

**Explanation:** Bulk power fan two is defective in BPA-A.

**Failing Item:**

- BPF-A2
  - BPC-A
- 

**14022045**

**Explanation:** Bulk power fan Three is defective in BPA-A.

**Failing Item:**

- BPF-A3
  - BPC-A
- 

**14022046**

**Explanation:** Bulk power fan four is defective in BPA-A.

**Failing Item:**

- BPF-A4
  - BPC-A
- 

**14022047**

**Explanation:** Bulk power fan one is defective in BPA-B.

**Failing Item:**

- BPF-B1
  - BPC-B
- 

**14022048**

**Explanation:** Bulk power fan two is defective in BPA-B.

**Failing Item:**

- BPF-B2
  - BPC-B
- 

**14022049**

**Explanation:** Bulk power fan Three is defective in BPA-B.

**Failing Item:**

- BPF-B3
  - BPC-B
- 

**14022050**

**Explanation:** Bulk power fan four is defective in BPA-B.

**Failing Item:**

- BPF-B4
  - BPC-B
- 

**14022051**

**Explanation:** DCA number one is defective.

**Failing Item:**

- IO\_DCA-01
- 

**14022052**

**Explanation:** DCA number two is defective.

**Failing Item:**

- IO\_DCA-02
-

---

14022054

**Explanation:** The bulk power fan is defective in BPA-A.

**Failing Item:**

- BPF-A
- BPC-A

---

14022055

**Explanation:** The bulk power fan is defective in BPA-B.

**Failing Item:**

- BPF-B
- BPC-B

---

14022056

**Explanation:** A local I2C failure has been detected on DCA1

**Failing Item:**

- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14022057

**Explanation:** A local I2C failure has been detected on DCA2

**Failing Item:**

- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14022058

**Explanation:** A Plug ID error has been detected on DCA1

**Failing Item:**

- IO\_DCA-01
- MIDPLANE

---

14022059

**Explanation:** A Plug ID error has been detected on DCA2

**Failing Item:**

- IO\_DCA-02
- MIDPLANE

---

1402205A

**Explanation:** A defective TRES midplane has been detected.

**Failing Item:**

- MIDPLANE

---

1402205B

**Explanation:** A defective TRES midplane has been detected.

**Failing Item:**

- MIDPLANE
- IO\_DCA-01
- IO\_DCA-02

---

1402205C

**Explanation:** A defective TRES midplane has been detected.

**Failing Item:**

- MIDPLANE
- IO\_DCA-01
- IO\_DCA-02

---

1402205D

**Explanation:** A defective disk enclosure midplane has been detected.

**Failing Item:**

- MIDPLANE

---

1402205E

**Explanation:** A defective disk enclosure midplane has been detected.

**Failing Item:**

- MIDPLANE
- IO\_DCA-01
- IO\_DCA-02

---

1402205F

**Explanation:** A defective disk enclosure midplane has been detected.

**Failing Item:**

- MIDPLANE
  - IO\_DCA-02
  - IO\_DCA-01
-

---

**14022069**

**Explanation:** All DCAs reported 'No airflow in cage' - Make sure that there are no blocked or dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that all 'circulation flaps' inside affected Air Moving Enclosure are not blocked.

---

**14022081**

**Explanation:** Input power to BPA A has been lost or partially lost.

**Failing Item:**

- BPR-1A
- BPR-2A
- BPR-3A
- BPR-4A
- CBL-PWRC-BPE-A2-PWR
- BPC-A
- BPE-BOARD-A

---

**14022082**

**Explanation:** The input power to BPA B has been lost or partially lost.

**Failing Item:**

- BPR-1B
- BPR-2B
- BPR-3B
- BPR-4B
- CBL-PWRC-BPE-B2-PWR
- BPC-B
- BPE-BOARD-B

---

**140220B9**

**Explanation:** The EPO panel or the cable between both BPCs and EPO panel is defective.

**Failing Item:**

- EPO-SWITCH
- CBL-BPCA-EPO
- CBL-BPCB-EPO
- BPC-A
- BPC-B

---

**140220C1**

**Explanation:** The UEPO switch on the BPC A-side is defective or in the BYPASS position. Switch to the NORMAL position.

**Failing Item:**

- BPC-A

---

**140220C2**

**Explanation:** The BPC on the A-side has detected an open UEPO loop.

**Failing Item:**

- EPO-SWITCH
- BPC-A
- BPR-1A
- BPR-2A
- BPR-3A
- CBL-BPCA-EPO
- BPE-BOARD-A

---

**140221AB**

**Explanation:** A communication fault between BPC A and the load on port J10 (B) has been detected.

**Failing Item:**

- BPCA-PORT-10-B

---

**140221AC**

**Explanation:** A communication fault between BPC A and the load on port J10 (C) has been detected.

**Failing Item:**

- BPCA-PORT-10-C

---

**140221B9**

**Explanation:** The EPO panel or the cable between both BPCs and EPO panel is defective.

**Failing Item:**

- EPO-SWITCH
- CBL-BPCHA-EPO
- CBL-BPCHB-EPO
- BPCH-A
- BPCH-B

---

**140221BB**

**Explanation:** A communication fault between BPC A and the load on port J11 (B) has been detected.

**Failing Item:**

- BPCA-PORT-11-B

---

**140221BC**

**Explanation:** A communication fault between BPC A and the load on port J11 (C) has been detected.

**Failing Item:**

- BPCA-PORT-11-C

---

140221C1

**Explanation:** The UEPO switch on the BPC B-side is defective or in the BYPASS position. Switch to the NORMAL position.

**Failing Item:**

- BPC-B

---

140221C2

**Explanation:** The BPC on the B-side has detected an open UEPO loop.

**Failing Item:**

- EPO-SWITCH
- BPC-B
- BPR-1B
- BPR-2B
- BPR-3B
- CBL-BPCB-EPO
- BPE-BOARD-B

---

1402221A

**Explanation:** A communication fault between the BPD 1A and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-01-A

---

1402222A

**Explanation:** A communication fault between the BPD 1A and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-02-A

---

1402223A

**Explanation:** A communication fault between the BPD 1A and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-03-A

---

1402224A

**Explanation:** A communication fault between the BPD 1A and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-04-A

---

14022251

**Explanation:** DCA number one is defective.

**Failing Item:**

- P2\_CEC\_DCA-01

---

14022252

**Explanation:** DCA number two is defective.

**Failing Item:**

- P2-CEC-DCA\_02

---

1402225A

**Explanation:** A communication fault between the BPD 1A and the load on port J05 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-05-A

---

1402226A

**Explanation:** A communication fault between the BPD 1A and the load on port J06 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-06-A

---

1402227A

**Explanation:** A communication fault between the BPD 1A and the load on port J07 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-07-A

---

1402227B

**Explanation:** A communication fault between the BPD 1A and the load on port J07 (B) has been detected.

**Failing Item:**

- BPD1A-PORT-07-B

---

1402227C

**Explanation:** A communication fault between the BPD 1A and the load on port J07 (C) has been detected.

**Failing Item:**

- BPD1A-PORT-07-C

---

1402228A

**Explanation:** A communication fault between the BPD 1A and the load on port J08 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-08-A



---

**1402228B**

**Explanation:** A communication fault between the BPD 1A and the load on port J08 (B) has been detected.

**Failing Item:**

- BPD1A-PORT-08-B
- 

**1402228C**

**Explanation:** A communication fault between the BPD 1A and the load on port J08 (C) has been detected.

**Failing Item:**

- BPD1A-PORT-08-C
- 

**1402229A**

**Explanation:** A communication fault between the BPD 1A and the load on port J09 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-09-A
- 

**1402229B**

**Explanation:** A communication fault between the BPD 1A and the load on port J09 (B) has been detected.

**Failing Item:**

- BPD1A-PORT-09-B
- 

**1402229C**

**Explanation:** A communication fault between the BPD 1A and the load on port J09 (C) has been detected.

**Failing Item:**

- BPD1A-PORT-09-C
- 

**140222AA**

**Explanation:** A communication fault between the BPD 1A and the load on port J10 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-10-A
- 

**140222AB**

**Explanation:** A communication fault between the BPD 1A and the load on port J10 (B) has been detected.

**Failing Item:**

- BPD1A-PORT-10-B
- 

**140222AC**

**Explanation:** A communication fault between the BPD 1A and the load on port J10 (C) has been detected.

**Failing Item:**

- BPD1A-PORT-10-C
- 

**140222C1**

**Explanation:** The UEPO switch on the BPCH A-side is defective or in the BYPASS position. Switch to the NORMAL position.

**Failing Item:**

- BPCH-A
- 

**140222C2**

**Explanation:** The BPCH on the A-side has detected an open UEPO loop.

**Failing Item:**

- EPO-SWITCH
  - BPCH-A
  - BPR-1A
  - BPR-2A
  - BPR-3A
  - CBL-BPCHA-EPO
  - BPE-BOARD-A
- 

**14022301**

**Explanation:** Water cooling system one has failed to adequately cool.

**Failing Item:**

- MDAW-1
  - MWU-1
- 

**14022302**

**Explanation:** Water cooling system two has failed to adequately cool.

**Failing Item:**

- MDAW-2
  - MWU-2
- 

**14022303**

**Explanation:** A problem with water supply has been detected on water cooling system one.

**Failing Item:**

- MDAW-1
  - MWU-1
- 

**14022304**

**Explanation:** A problem with water supply has been detected on water cooling system two.

**Failing Item:**

- MDAW-2

## 14022305 • 14022314

- MWU-2

---

### 14022305

**Explanation:** A leak has been detected on water cooling system one.

**Failing Item:**

- MWU-1
- MDAW-1

---

### 14022306

**Explanation:** A leak has been detected on water cooling system two.

**Failing Item:**

- MWU-2
- MDAW-2

---

### 14022309

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- MDA-FD-A
- FDT-A

---

### 1402230A

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- MDA-FD-B
- FDT-B

---

### 1402230B

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- FDT-A

---

### 1402230C

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- FDT-B

---

### 1402230D

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- MDA-FD-A

---

### 1402230E

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- MDA-FD-B

---

### 1402230F

**Explanation:** Water cooling system three has failed to adequately cool.

**Failing Item:**

- MDAW-3
- MWU-3

---

### 14022310

**Explanation:** Water cooling system four has failed to adequately cool.

**Failing Item:**

- MDAW-4
- MWU-4

---

### 14022311

**Explanation:** A problem with water supply has been detected on water cooling system three.

**Failing Item:**

- MDAW-3
- MWU-3

---

### 14022312

**Explanation:** A problem with water supply has been detected on water cooling system four.

**Failing Item:**

- MDAW-4
- MWU-4

---

### 14022313

**Explanation:** A leak has been detected on water cooling system three.

**Failing Item:**

- MWU-3
- MDAW-3

---

### 14022314

**Explanation:** A leak has been detected on water cooling system four.

**Failing Item:**

- MWU-4

- MDAW-4

---

**14022315**

**Explanation:** An error has been detected on the MDA of WCU-1

**Failing Item:**

- MDAW-1
- MWU-1

---

**14022316**

**Explanation:** An error has been detected on the MDA of WCU-2

**Failing Item:**

- MDAW-2
- MWU-2

---

**14022317**

**Explanation:** An error has been detected on the MDA of WCU-3

**Failing Item:**

- MDAW-3
- MWU-3

---

**14022318**

**Explanation:** An error has been detected on the MDA of WCU-4

**Failing Item:**

- MDAW-4
- MWU-4

---

**1402231A**

**Explanation:** A communication fault between the BPD 2A and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-01-A

---

**14022320**

**Explanation:** An error has been detected on WCU-1 or its MDA

**Failing Item:**

- MWU-1
- MDAW-1

---

**14022321**

**Explanation:** An error has been detected on WCU-2 or its MDA

**Failing Item:**

- MWU-2
- MDAW-2

---

**14022322**

**Explanation:** An error has been detected on WCU-3 or its MDA

**Failing Item:**

- MWU-3
- MDAW-3

---

**14022323**

**Explanation:** An error has been detected on WCU-4 or its MDA

**Failing Item:**

- MWU-4
- MDAW-4

---

**1402232A**

**Explanation:** A communication fault between the BPD 2A and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-02-A

---

**1402232B**

**Explanation:** A WCU-1 sensor has failed in place

**Failing Item:**

- MWU-1
- MDAW-1

---

**1402232C**

**Explanation:** A WCU-2 sensor has failed in place

**Failing Item:**

- MWU-2
- MDAW-2

---

**1402232D**

**Explanation:** A WCU-3 sensor has failed in place

**Failing Item:**

- MWU-3
- MDAW-3

---

1402232E

**Explanation:** A WCU-4 sensor has failed in place

**Failing Item:**

- MWU-4
- MDAW-4

---

1402233A

**Explanation:** A communication fault between the BPD 2A and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-03-A

---

1402234A

**Explanation:** A communication fault between the BPD 2A and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-04-A

---

14022351

**Explanation:** DCA number one is defective.

**Failing Item:**

- P3\_CEC\_DCA-01

---

14022352

**Explanation:** DCA number two is defective.

**Failing Item:**

- P3-CEC-DCA\_02

---

1402235A

**Explanation:** A communication fault between the BPD 2A and the load on port J05 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-05-A

---

1402236A

**Explanation:** A communication fault between the BPD 2A and the load on port J06 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-06-A

---

1402237A

**Explanation:** A communication fault between the BPD 2A and the load on port J07 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-07-A

---

1402237B

**Explanation:** A communication fault between the BPD 2A and the load on port J07 (B) has been detected.

**Failing Item:**

- BPD2A-PORT-07-B

---

1402237C

**Explanation:** A communication fault between the BPD 2A and the load on port J07 (C) has been detected.

**Failing Item:**

- BPD2A-PORT-07-C

---

1402238A

**Explanation:** A communication fault between the BPD 2A and the load on port J08 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-08-A

---

1402238B

**Explanation:** A communication fault between the BPD 2A and the load on port J08 (B) has been detected.

**Failing Item:**

- BPD2A-PORT-08-B

---

1402238C

**Explanation:** A communication fault between the BPD 2A and the load on port J08 (C) has been detected.

**Failing Item:**

- BPD2A-PORT-08-C

---

1402239A

**Explanation:** A communication fault between the BPD 2A and the load on port J09 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-09-A

---

1402239B

**Explanation:** A communication fault between the BPD 2A and the load on port J09 (B) has been detected.

**Failing Item:**

- BPD2A-PORT-09-B

---

1402239C

**Explanation:** A communication fault between the BPD 2A and the load on port J09 (C) has been detected.

**Failing Item:**

- BPD2A-PORT-09-C

---

**140223AA**

**Explanation:** A communication fault between the BPD 2A and the load on port J10 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-10-A

---

**140223AB**

**Explanation:** A communication fault between the BPD 2A and the load on port J10 (B) has been detected.

**Failing Item:**

- BPD2A-PORT-10-B

---

**140223AC**

**Explanation:** A communication fault between the BPD 2A and the load on port J10 (C) has been detected.

**Failing Item:**

- BPD2A-PORT-10-C

---

**140223C1**

**Explanation:** The UEPO switch on the BPCH B-side is defective or in the BYPASS position. Switch to the NORMAL position.

**Failing Item:**

- BPCH-B

---

**140223C2**

**Explanation:** The BPCH on the B-side has detected an open UEPO loop.

**Failing Item:**

- EPO-SWITCH
- BPCH-B
- BPR-1B
- BPR-2B
- BPR-3B
- CBL-BPCHB-EPO
- BPE-BOARD-B

---

**1402241A**

**Explanation:** A communication fault between the BPD 3A and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD3A-PORT-01-A

---

**1402242A**

**Explanation:** A communication fault between the BPD 3A and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD3A-PORT-02-A

---

**1402243A**

**Explanation:** A communication fault between the BPD 3A and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD3A-PORT-03-A

---

**1402244A**

**Explanation:** A communication fault between the BPD 3A and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD3A-PORT-04-A

---

**14022451**

**Explanation:** DCA number one is defective.

**Failing Item:**

- P4\_CEC\_DCA-01

---

**14022452**

**Explanation:** DCA number two is defective.

**Failing Item:**

- P4\_CEC\_DCA-02

---

**14022551**

**Explanation:** DCA number one is defective.

**Failing Item:**

- P5\_CEC\_DCA-01

---

**14022552**

**Explanation:** DCA number two is defective.

**Failing Item:**

- P5\_CEC\_DCA-02

---

**14022651**

**Explanation:** DCA number one is defective.

**Failing Item:**

- P6\_CEC\_DCA-01

---

14022652

**Explanation:** DCA number two is defective.

**Failing Item:**

- P6\_CEC\_DCA-02

---

14022751

**Explanation:** DCA number one is defective.

**Failing Item:**

- P7\_CEC\_DCA-01

---

14022752

**Explanation:** DCA number two is defective.

**Failing Item:**

- P7\_CEC\_DCA-02

---

14022851

**Explanation:** DCA number one is defective.

**Failing Item:**

- P8\_CEC\_DCA-01

---

14022852

**Explanation:** DCA number two is defective.

**Failing Item:**

- P8\_CEC\_DCA-02

---

14022951

**Explanation:** DCA number one is defective.

**Failing Item:**

- P9\_CEC\_DCA-01

---

14022952

**Explanation:** DCA number two is defective.

**Failing Item:**

- P9\_CEC\_DCA-02

---

14022A01

**Explanation:** A communication fault between (BPA-A) BPC and (BPA-B) BPC.

**Failing Item:**

- BPCA-PORT-01

---

14022A02

**Explanation:** A communication fault between the BPC (BPA-A) and BPD 1A has been detected.

**Failing Item:**

- BPD-1A
- BPC-A
- BPE-BOARD-A

---

14022A03

**Explanation:** A communication fault between the BPC (BPA-A) and BPD 2A has been detected.

**Failing Item:**

- BPD-2A
- BPC-A
- BPE-BOARD-A

---

14022A04

**Explanation:** A communication fault between the BPC (BPA-A) and BPD 3A has been detected.

**Failing Item:**

- BPD-3A
- BPC-A
- BPE-BOARD-A

---

14022A05

**Explanation:** Communication error between BPC A and BPR 1A.

**Failing Item:**

- BPR-1A
- BPC-A
- BPE-BOARD-A

---

14022A06

**Explanation:** Communication error between BPC A and BPR 2A.

**Failing Item:**

- BPR-2A
- BPC-A
- BPE-BOARD-A

---

14022A07

**Explanation:** Communication error between BPC A and BPR 3A.

**Failing Item:**

- BPR-3A
- BPC-A

- BPE-BOARD-A

---

**14022A08**

**Explanation:** Communication error between BPC A and BPR 4A.

**Failing Item:**

- BPR-4A
- BPC-A
- BPE-BOARD-A

---

**14022A09**

**Explanation:** Communication error between BPC A and BPR 5A.

**Failing Item:**

- BPR-5A
- BPC-A
- BPE-BOARD-A

---

**14022A0A**

**Explanation:** Communication error between BPC A and BPR 6A.

**Failing Item:**

- BPR-6A
- BPC-A
- BPE-BOARD-A

---

**14022A0B**

**Explanation:** Communication error between BPC A and BPH A.

**Failing Item:**

- BPCA-PORT-02

---

**14022A0C**

**Explanation:** Communication error between BPC A and BPH B.

**Failing Item:**

- BPCA-PORT-03

---

**14022A10**

**Explanation:** BPA-A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-1A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-2A

- BPR-3A
- BPE-BOARD-A

---

**14022A11**

**Explanation:** BPR-1A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-1A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-2A
- BPR-3A
- BPE-BOARD-A

---

**14022A12**

**Explanation:** BPR-2A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-2A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-1A
- BPR-3A
- BPE-BOARD-A

---

**14022A13**

**Explanation:** BPR-3A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-3A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-1A
- BPR-2A
- BPE-BOARD-A

---

**14022A14**

**Explanation:** BPR-4A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-4A
- BPD-1A
- BPC-A
- BPD-2A

## 14022A15 • 14022A31

- BPR-5A
- BPR-6A
- BPE-BOARD-A

---

### 14022A15

**Explanation:** BPR-5A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-5A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-4A
- BPR-6A
- BPE-BOARD-A

---

### 14022A16

**Explanation:** BPR-6A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-6A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-4A
- BPR-5A
- BPE-BOARD-A

---

### 14022A20

**Explanation:** A BPA has reported 'No airflow in cage' - Make sure that there are no blocked or dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14022A21

**Explanation:** BPR-1A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-1A

---

### 14022A22

**Explanation:** BPR-2A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-2A

---

### 14022A23

**Explanation:** BPR-3A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-3A

---

### 14022A24

**Explanation:** BPR-4A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-4A

---

### 14022A25

**Explanation:** BPR-5A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-5A

---

### 14022A26

**Explanation:** BPR-6A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-6A

---

### 14022A31

**Explanation:** BPA-A side detects that IBF-1A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-1A)

**Failing Item:**

- IBF-1A
- BPR-1A
- BPC-A



- BPE-BOARD-A

---

**14022A32**

**Explanation:** BPA-A side detects that IBF-2A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-2A)

**Failing Item:**

- IBF-2A
- BPR-2A
- BPC-A
- BPE-BOARD-A

---

**14022A41**

**Explanation:** BPA-A side detects that IBF-1A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-1A)

**Failing Item:**

- IBF-1A

---

**14022A42**

**Explanation:** BPA-A side detects that IBF-2A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-2A)

**Failing Item:**

- IBF-2A

---

**14022A51**

**Explanation:** BPC-A side detects that IBF-1A is disconnected. (IBF is connected to BPA-A BPR-1A)

**Failing Item:**

- BPR-1A
- IBF-1A
- CBL-IBF1A
- BPC-A
- BPE-BOARD-A

---

**14022A52**

**Explanation:** BPC-A side detects that IBF-2A is disconnected. (IBF is connected to BPA-A BPR-2A)

**Failing Item:**

- BPR-2A
- IBF-2A
- CBL-IBF2A
- BPC-A
- BPE-BOARD-A

---

**14022A85**

**Explanation:** The A-side BPC has detected that the cross feed from the B-side has failed.

**Failing Item:**

- BPCA-PORT-07

---

**14022B01**

**Explanation:** A communication fault between (BPA-B) BPC and (BPA-A) BPC.

**Failing Item:**

- BPCB-PORT-01

---

**14022B02**

**Explanation:** A communication fault between the BPC (BPA-B) and BPD 1B has been detected.

**Failing Item:**

- BPD-1B
- BPC-B
- BPE-BOARD-B

---

**14022B03**

**Explanation:** A communication fault between the BPC (BPA-B) and BPD 2B has been detected.

**Failing Item:**

- BPD-2B
- BPC-B
- BPE-BOARD-B

---

**14022B04**

**Explanation:** A communication fault between the BPC (BPA-B) and BPD 3B has been detected.

**Failing Item:**

- BPD-3B
- BPC-B
- BPE-BOARD-B

---

**14022B05**

**Explanation:** Communication error between BPC B and BPR 1B.

**Failing Item:**

- BPR-1B
- BPC-B
- BPE-BOARD-B

---

14022B06

**Explanation:** Communication error between BPC B and BPR 2B.

**Failing Item:**

- BPR-2B
- BPC-B
- BPE-BOARD-B

---

14022B07

**Explanation:** Communication error between BPC B and BPR 3B.

**Failing Item:**

- BPR-3B
- BPC-B
- BPE-BOARD-B

---

14022B08

**Explanation:** Communication error between BPC B and BPR 4B.

**Failing Item:**

- BPR-4B
- BPC-B
- BPE-BOARD-B

---

14022B09

**Explanation:** Communication error between BPC B and BPR 5B.

**Failing Item:**

- BPR-5B
- BPC-B
- BPE-BOARD-B

---

14022B0A

**Explanation:** Communication error between BPC B and BPR 6B.

**Failing Item:**

- BPR-6B
- BPC-B
- BPE-BOARD-B

---

14022B0B

**Explanation:** Communication error between BPC B and BPH B.

**Failing Item:**

- BPCB-PORT-02

---

14022B0C

**Explanation:** Communication error between BPC B and BPH A.

**Failing Item:**

- BPCB-PORT-03

---

14022B10

**Explanation:** BPA-B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-1A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-2A
- BPR-3A
- BPE-BOARD-A

---

14022B11

**Explanation:** BPR-1B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-1B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-2B
- BPR-3B
- BPE-BOARD-B

---

14022B12

**Explanation:** BPR-2B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-2B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-1B
- BPR-3B
- BPE-BOARD-B

---

14022B13

**Explanation:** BPR-3B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-3B

- BPD-1B
- BPC-B
- BPD-2B
- BPR-1B
- BPR-2B
- BPE-BOARD-B

---

**14022B14**

**Explanation:** BPR-4B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-4B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-5B
- BPR-6B
- BPE-BOARD-B

---

**14022B15**

**Explanation:** BPR-5B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-5B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-4B
- BPR-6B
- BPE-BOARD-B

---

**14022B16**

**Explanation:** BPR-6B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-6B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-4B
- BPR-5B
- BPE-BOARD-B

---

**14022B20**

**Explanation:** A BPA has reported 'No airflow in cage' - Make sure that there are no blocked or dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a

cover over it / BPF on B-side does not.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14022B21**

**Explanation:** BPR-1B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-1B

---

**14022B22**

**Explanation:** BPR-2B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-2B

---

**14022B23**

**Explanation:** BPR-3B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-3B

---

**14022B24**

**Explanation:** BPR-4B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-4B

---

**14022B25**

**Explanation:** BPR-5B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-5B

---

**14022B26**

**Explanation:** BPR-6B located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-6B

---

14022B31

**Explanation:** BPA-B side detects that IBF-1B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-B BPR-1B)

**Failing Item:**

- IBF-1B
- BPR-1B
- BPC-B
- BPE-BOARD-B

---

14022B32

**Explanation:** BPA-B side detects that IBF-2B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-B BPR-2B)

**Failing Item:**

- IBF-2B
- BPR-2B
- BPC-B
- BPE-BOARD-B

---

14022B41

**Explanation:** BPA-B side detects that IBF-1B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-1B)

**Failing Item:**

- IBF-1B

---

14022B42

**Explanation:** BPA-B side detects that IBF-2B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-2B)

**Failing Item:**

- IBF-2B

---

14022B51

**Explanation:** BPC-B side detects that IBF-1B is disconnected. (IBF is connected to BPA-B BPR-1B)

**Failing Item:**

- BPR-1B
- IBF-1B
- CBL-IBF1B
- BPC-B
- BPE-BOARD-B

---

14022B52

**Explanation:** BPC-B side detects that IBF-2B is disconnected. (IBF is connected to BPA-B BPR-2B)

**Failing Item:**

- BPR-2B
- IBF-2B
- CBL-IBF2B
- BPC-B
- BPE-BOARD-B

---

14022B85

**Explanation:** The B-side BPC has detected that the cross feed from the A-side has failed.

**Failing Item:**

- BPCB-PORT-07

---

14022C51

**Explanation:** DCCA number one is defective.

**Failing Item:**

- IH\_DCCA-01

---

14022C52

**Explanation:** DCCA number two is defective.

**Failing Item:**

- IH\_DCCA-02

---

14023000

**Explanation:** BPC A side has detected unmatched FRUs in the same CageID. Check P/Ns and codelevel of the Power FRUs in the cage.

---

14023005

**Explanation:** BPC A side has detected miscabling to DCA port. Correct cabling error.

---

14023006

**Explanation:** BPC A side detects cabling order to a DCA different than to the other DCAs (This BPA sides view). Check and correct cable plugging.

---

14023007

**Explanation:** BPC A side detects cabling order to a MDA different than to the other MDAs (This BPA sides view). Check and correct cable plugging.

---

**14023090**

**Explanation:** BPC B side has detected unmatched FRUs in the same CageID. Check P/Ns and codelevel of the Power FRUs in the cage.

---

**14023095**

**Explanation:** BPC B side has detected miscabling to DCA port. Correct cabling error.

---

**14023096**

**Explanation:** BPC B side detects cabling order to a DCA different than to the other DCAs (This BPA sides view). Check and correct cable plugging.

---

**14023097**

**Explanation:** BPC A side detects cabling order to a MDA different than to the other MDAs (This BPA sides view). Check and correct cable plugging.

---

**140231AB**

**Explanation:** A communication fault between BPC B and the load on port J10 (B) has been detected.

**Failing Item:**

- BPCB-PORT-10-B
- 

**140231AC**

**Explanation:** A communication fault between BPC B and the load on port J10 (C) has been detected.

**Failing Item:**

- BPCB-PORT-10-C
- 

**140231BB**

**Explanation:** A communication fault between BPC B and the load on port J11 (B) has been detected.

**Failing Item:**

- BPCB-PORT-11-B
- 

**140231BC**

**Explanation:** A communication fault between BPC B and the load on port J11 (C) has been detected.

**Failing Item:**

- BPCB-PORT-11-C
- 

**1402321A**

**Explanation:** A communication fault between the BPD 1B and the load on port J01 has been detected (A).

**Failing Item:**

- BPD1B-PORT-01-A
- 

**1402322A**

**Explanation:** A communication fault between the BPD 1B and the load on port J02 has been detected (A).

**Failing Item:**

- BPD1B-PORT-02-A
- 

**1402323A**

**Explanation:** A communication fault between the BPD 1B and the load on port J03 has been detected (A).

**Failing Item:**

- BPD1B-PORT-03-A
- 

**1402324A**

**Explanation:** A communication fault between the BPD 1B and the load on port J04 has been detected (A).

**Failing Item:**

- BPD1B-PORT-04-A
- 

**1402325A**

**Explanation:** A communication fault between the BPD 1B and the load on port J05 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-05-A
- 

**1402326A**

**Explanation:** A communication fault between the BPD 1B and the load on port J06 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-06-A
- 

**1402327A**

**Explanation:** A communication fault between the BPD 1B and the load on port J07 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-07-A
- 

**1402327B**

**Explanation:** A communication fault between the BPD 1B and the load on port J07 (B) has been detected.

**Failing Item:**

- BPD1B-PORT-07-B
-

---

1402327C

**Explanation:** A communication fault between the BPD 1B and the load on port J07 (C) has been detected.

**Failing Item:**

- BPD1B-PORT-07-C

---

1402328A

**Explanation:** A communication fault between the BPD 1B and the load on port J08 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-08-A

---

1402328B

**Explanation:** A communication fault between the BPD 1B and the load on port J08 (B) has been detected.

**Failing Item:**

- BPD1B-PORT-08-B

---

1402328C

**Explanation:** A communication fault between the BPD 1B and the load on port J08 (C) has been detected.

**Failing Item:**

- BPD1B-PORT-08-C

---

1402329A

**Explanation:** A communication fault between the BPD 1B and the load on port J09 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-09-A

---

1402329B

**Explanation:** A communication fault between the BPD 1B and the load on port J09 (B) has been detected.

**Failing Item:**

- BPD1B-PORT-09-B

---

1402329C

**Explanation:** A communication fault between the BPD 1B and the load on port J09 (C) has been detected.

**Failing Item:**

- BPD1B-PORT-09-C

---

140232AA

**Explanation:** A communication fault between the BPD 1B and the load on port J10 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-10-A

---

140232AB

**Explanation:** A communication fault between the BPD 1B and the load on port J10 (B) has been detected.

**Failing Item:**

- BPD1B-PORT-10-B

---

140232AC

**Explanation:** A communication fault between the BPD 1B and the load on port J10 (C) has been detected.

**Failing Item:**

- BPD1B-PORT-10-C

---

1402331A

**Explanation:** A communication fault between the BPD 2B and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-01-A

---

1402332A

**Explanation:** A communication fault between the BPD 2B and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-02-A

---

1402333A

**Explanation:** A communication fault between the BPD 2B and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-03-A

---

1402334A

**Explanation:** A communication fault between the BPD 2B and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-04-A

---

1402335A

**Explanation:** A communication fault between the BPD 2B and the load on port J05 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-05-A

---

**1402336A**

**Explanation:** A communication fault between the BPD 2B and the load on port J06 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-06-A
- 

**1402337A**

**Explanation:** A communication fault between the BPD 2B and the load on port J07 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-07-A
- 

**1402337B**

**Explanation:** A communication fault between the BPD 2B and the load on port J07 (B) has been detected.

**Failing Item:**

- BPD2B-PORT-07-B
- 

**1402337C**

**Explanation:** A communication fault between the BPD 2B and the load on port J07 (C) has been detected.

**Failing Item:**

- BPD2B-PORT-07-C
- 

**1402338A**

**Explanation:** A communication fault between the BPD 2B and the load on port J08 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-08-A
- 

**1402338B**

**Explanation:** A communication fault between the BPD 2B and the load on port J08 (B) has been detected.

**Failing Item:**

- BPD2B-PORT-08-B
- 

**1402338C**

**Explanation:** A communication fault between the BPD 2B and the load on port J08 (C) has been detected.

**Failing Item:**

- BPD2B-PORT-08-C
- 

**1402339B**

**Explanation:** A communication fault between the BPD 2B and the load on port J09 (B) has been detected.

**Failing Item:**

- BPD2B-PORT-09-B
- 

**1402339C**

**Explanation:** A communication fault between the BPD 2B and the load on port J09 (C) has been detected.

**Failing Item:**

- BPD2B-PORT-09-C
- 

**140233AA**

**Explanation:** A communication fault between the BPD 2B and the load on port J10 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-10-A
- 

**140233AB**

**Explanation:** A communication fault between the BPD 2B and the load on port J10 (B) has been detected.

**Failing Item:**

- BPD2B-PORT-10-B
- 

**140233AC**

**Explanation:** A communication fault between the BPD 2B and the load on port J10 (C) has been detected.

**Failing Item:**

- BPD2B-PORT-10-C
- 

**1402341A**

**Explanation:** A communication fault between the BPD 3B and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD3B-PORT-01-A
- 

**1402342A**

**Explanation:** A communication fault between the BPD 3B and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD3B-PORT-02-A
- 

**1402343A**

**Explanation:** A communication fault between the BPD 3B and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD3B-PORT-03-A
-

---

1402344A

**Explanation:** A communication fault between the BPD 3B and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD3B-PORT-04-A

---

14023A01

**Explanation:** Communication fault between BPCH-A and BPCH-B.

**Failing Item:**

- BPCHA-PORT-01

---

14023A02

**Explanation:** A communication fault between the BPCH and BPD (BPA-A) has been detected.

**Failing Item:**

- BPD-1A
- BPCH-A
- BPE-BOARD-A

---

14023A05

**Explanation:** Communication error between BPCH A and BPR 1A.

**Failing Item:**

- BPR-1A
- BPCH-A
- BPE-BOARD-A

---

14023A06

**Explanation:** Communication error between BPCH A and BPR 2A.

**Failing Item:**

- BPR-2A
- BPCH-A
- BPE-BOARD-A

---

14023A07

**Explanation:** Communication error between BPCH A and BPR 3A.

**Failing Item:**

- BPR-3A
- BPCH-A
- BPE-BOARD-A

---

14023A08

**Explanation:** Communication error between BPCH A and BPR 4A.

**Failing Item:**

- BPR-4A
- BPCH-A
- BPE-BOARD-A

---

14023A09

**Explanation:** Communication error between BPCH A and BPR 5A.

**Failing Item:**

- BPR-5A
- BPCH-A
- BPE-BOARD-A

---

14023A0A

**Explanation:** Communication error between BPCH A and BPR 6A.

**Failing Item:**

- BPR-6A
- BPCH-A
- BPE-BOARD-A

---

14023A85

**Explanation:** The A-side BPCH has detected that the cross feed from the B-side has failed.

**Failing Item:**

- BPCHA-PORT-05

---

14023B01

**Explanation:** Communication fault between BPCH-B and BPCH-A.

**Failing Item:**

- BPCHB-PORT-01

---

14023B02

**Explanation:** A communication fault between the BPCH and BPD (BPA-B) has been detected.

**Failing Item:**

- BPD-1B
  - BPCH-B
  - BPE-BOARD-B
-



---

**14023B05**

**Explanation:** Communication error between BPCH B and BPR 1B.

**Failing Item:**

- BPR-1B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B06**

**Explanation:** Communication error between BPCH B and BPR 2B.

**Failing Item:**

- BPR-2B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B07**

**Explanation:** Communication error between BPCH B and BPR 3B.

**Failing Item:**

- BPR-3B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B08**

**Explanation:** Communication error between BPCH B and BPR 4B.

**Failing Item:**

- BPR-4B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B09**

**Explanation:** Communication error between BPCH B and BPR 5B.

**Failing Item:**

- BPR-5B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B0A**

**Explanation:** Communication error between BPCH B and BPR 6B.

**Failing Item:**

- BPR-6B
  - BPCH-B
- 

- BPE-BOARD-B
- 

**14023B85**

**Explanation:** The B-side BPCH has detected that the cross feed from the A-side has failed.

**Failing Item:**

- BPCHB-PORT-05
- 

**14023C51**

**Explanation:** Communication from DCCA to DCCA is defective.

**Failing Item:**

- IH\_DCCA-01
  - IH\_DCCA-02
  - ANY-NODE
- 

**14023C52**

**Explanation:** Communication from DCCA to DCCA is defective.

**Failing Item:**

- IH\_DCCA-02
  - IH\_DCCA-01
  - ANY-NODE
- 

**14024001**

**Explanation:** The Auto-Code-Download (ACDL) of the power subsystem encountered an error. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU
- 

**14024002**

**Explanation:** The frame MTMS was not resolved by HMC. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU
- 

**14024003**

**Explanation:** The BPC has found duplicate Mailbox IP addresses on Network A. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU
-

---

14024004

**Explanation:** The BPC has found duplicate Mailbox IP addresses on Network B. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

14024005

**Explanation:** A DHCP address was not assigned on Network A. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

14024006

**Explanation:** The Flash that is loaded on BPC A and B do not match. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

14024007

**Explanation:** A Power redundancy command was run and produced this log. This is not an error and contains information that development would use to investigate system FRU redundancy problems.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

140251AB

**Explanation:** An over current has been detected on 350V between BPC A and the load on its port J10 (B).

**Failing Item:**

- BPCA-PORT-10-B

---

140251AC

**Explanation:** An over current has been detected on 350V between BPC A and the load on its port J10 C.

**Failing Item:**

- BPCA-PORT-10-C

---

140251BB

**Explanation:** An over current has been detected on 350V between BPC A and the load on its port J11 (B).

**Failing Item:**

- BPCA-PORT-11-B

---

140251BC

**Explanation:** An over current has been detected on 350V between BPC A and the load on its port J11 (C).

**Failing Item:**

- BPCA-PORT-11-C

---

1402521A

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J01 (A).

**Failing Item:**

- BPD1A-PORT-01-A

---

1402522A

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J02 (A).

**Failing Item:**

- BPD1A-PORT-02-A

---

1402523A

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J03 (A).

**Failing Item:**

- BPD1A-PORT-03-A

---

1402524A

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J04 (A).

**Failing Item:**

- BPD1A-PORT-04-A

---

1402525A

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J05 (A).

**Failing Item:**

- BPD1A-PORT-05-A

---

1402526A

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J06 (A).

**Failing Item:**

- BPD1A-PORT-06-A

---

1402527A

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J07 (A).

**Failing Item:**

- BPD1A-PORT-07-A

---

**1402527B**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J07 (B).

**Failing Item:**

- BPD1A-PORT-07-B

---

**1402527C**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J07 (C).

**Failing Item:**

- BPD1A-PORT-07-C

---

**1402528A**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J08 (A).

**Failing Item:**

- BPD1A-PORT-08-A

---

**1402528B**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J08 (B).

**Failing Item:**

- BPD1A-PORT-08-B

---

**1402528C**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J08 (C).

**Failing Item:**

- BPD1A-PORT-08-C

---

**1402529A**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J09 (A).

**Failing Item:**

- BPD1A-PORT-09-A

---

**1402529B**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J09 (B).

**Failing Item:**

- BPD1A-PORT-09-B

---

**1402529C**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J09 (C).

**Failing Item:**

- BPD1A-PORT-09-C

---

**140252AA**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J10 (A).

**Failing Item:**

- BPD1A-PORT-10-A

---

**140252AB**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J10 (B).

**Failing Item:**

- BPD1A-PORT-10-B

---

**140252AC**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J10 (C).

**Failing Item:**

- BPD1A-PORT-10-C

---

**1402531A**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J01 (A).

**Failing Item:**

- BPD2A-PORT-01-A

---

**1402532A**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J02 (A).

**Failing Item:**

- BPD2A-PORT-02-A

---

**1402533A**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J03 (A).

**Failing Item:**

- BPD2A-PORT-03-A

---

**1402534A**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J04 (A).

**Failing Item:**

## 1402535A • 1402541A

- BPD2A-PORT-04-A

---

### 1402535A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J05 (A).

**Failing Item:**

- BPD2A-PORT-05-A

---

### 1402536A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J06 (A).

**Failing Item:**

- BPD2A-PORT-06-A

---

### 1402537A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J07 (A).

**Failing Item:**

- BPD2A-PORT-07-A

---

### 1402537B

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J07 (B).

**Failing Item:**

- BPD2A-PORT-07-B

---

### 1402537C

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J07 (C).

**Failing Item:**

- BPD2A-PORT-07-C

---

### 1402538A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J08 (A).

**Failing Item:**

- BPD2A-PORT-08-A

---

### 1402538B

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J08 (B).

**Failing Item:**

- BPD2A-PORT-08-B

---

### 1402538C

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J08 (C).

**Failing Item:**

- BPD2A-PORT-08-C

---

### 1402539A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J09 (A).

**Failing Item:**

- BPD2A-PORT-09-A

---

### 1402539B

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J09 (B).

**Failing Item:**

- BPD2A-PORT-09-B

---

### 1402539C

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J09 (C).

**Failing Item:**

- BPD2A-PORT-09-C

---

### 140253AA

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J10 (A).

**Failing Item:**

- BPD2A-PORT-10-A

---

### 140253AB

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J10 (B).

**Failing Item:**

- BPD2A-PORT-10-B

---

### 140253AC

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J10 (C).

**Failing Item:**

- BPD2A-PORT-10-C

---

### 1402541A

**Explanation:** An over current has been detected on 350V between BPD 3A and the load on its port J01 (A).

**Failing Item:**

- BPD3A-PORT-01-A

**1402542A**

**Explanation:** An over current has been detected on 350V between BPD 3A and the load on its port J02 (A).

**Failing Item:**

- BPD3A-PORT-02-A

**1402543A**

**Explanation:** An over current has been detected on 350V between BPD 3A and the load on its port J03 (A).

**Failing Item:**

- BPD3A-PORT-03-A

**1402544A**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J04 (A).

**Failing Item:**

- BPD3A-PORT-04-A

**14026150**

**Explanation:** The voltage on voltage level 50 has reached the warning undervoltage limit for the specified cage or drawer.

**14026151**

**Explanation:** The voltage on voltage level 51 has reached the warning undervoltage limit for the specified cage or drawer.

**14026152**

**Explanation:** The voltage on voltage level 52 has reached the warning undervoltage limit for the specified cage or drawer.

**14026153**

**Explanation:** The voltage on voltage level 53 has reached the warning undervoltage limit for the specified cage or drawer.

**14026154**

**Explanation:** The voltage on voltage level 54 has reached the warning undervoltage limit for the specified cage or drawer.

**14026155**

**Explanation:** The voltage on voltage level 55 has reached the warning undervoltage limit for the specified cage or drawer.

**14026156**

**Explanation:** The voltage on voltage level 56 has reached the warning undervoltage limit for the specified cage or drawer.

**14026157**

**Explanation:** The voltage on voltage level 57 has reached the warning undervoltage limit for the specified cage or drawer.

**14026158**

**Explanation:** The voltage on voltage level 58 has reached the warning undervoltage limit for the specified cage or drawer.

**14026159**

**Explanation:** The voltage on voltage level 59 has reached the warning undervoltage limit for the specified cage or drawer.

**14026160**

**Explanation:** The voltage on voltage level 60 has reached the warning undervoltage limit for the specified cage or drawer.

**140261AB**

**Explanation:** An over current has been detected on 350V between BPC B and the load on its port J10 (B).

**Failing Item:**

- BPCB-PORT-10-B

**140261AC**

**Explanation:** An over current has been detected on 350V between BPC B and the load on its port J10 (C).

**Failing Item:**

- BPCB-PORT-10-C

**140261BB**

**Explanation:** An over current has been detected on 350V between BPC B and the load on its port J11 (B).

**Failing Item:**

- BPCB-PORT-11-B

---

140261BC

**Explanation:** An over current has been detected on 350V between BPC B and the load on its port J11 (C).

**Failing Item:**

- BPCB-PORT-11-C

---

1402621A

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J01 (A).

**Failing Item:**

- BPD1B-PORT-01-A

---

1402622A

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J02 (A).

**Failing Item:**

- BPD1B-PORT-02-A

---

1402623A

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J03 (A).

**Failing Item:**

- BPD1B-PORT-03-A

---

1402624A

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J04 (A).

**Failing Item:**

- BPD1B-PORT-04-A

---

14026250

**Explanation:** The voltage on voltage level 50 has reached the warning over voltage limit for the specified cage or drawer.

---

14026251

**Explanation:** The voltage on voltage level 51 has reached the warning over voltage limit for the specified cage or drawer.

---

14026252

**Explanation:** The voltage on voltage level 52 has reached the warning over voltage limit for the specified cage or drawer.

---

14026253

**Explanation:** The voltage on voltage level 53 has reached the warning over voltage limit for the specified cage or drawer.

---

14026254

**Explanation:** The voltage on voltage level 54 has reached the warning over voltage limit for the specified cage or drawer.

---

14026255

**Explanation:** The voltage on voltage level 55 has reached the warning over voltage limit for the specified cage or drawer.

---

14026256

**Explanation:** The voltage on voltage level 56 has reached the warning over voltage limit for the specified cage or drawer.

---

14026257

**Explanation:** The voltage on voltage level 57 has reached the warning over voltage limit for the specified cage or drawer.

---

14026258

**Explanation:** The voltage on voltage level 58 has reached the warning over voltage limit for the specified cage or drawer.

---

14026259

**Explanation:** The voltage on voltage level 59 has reached the warning over voltage limit for the specified cage or drawer.

---

1402625A

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J05 (A).

**Failing Item:**

- BPD1B-PORT-05-A

---

14026260

**Explanation:** The voltage on voltage level 60 has reached the warning over voltage limit for the specified cage or drawer.

---

**1402626A**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J06 (A).

**Failing Item:**

- BPD1B-PORT-06-A
- 

**1402627A**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J07 (A).

**Failing Item:**

- BPD1B-PORT-07-A
- 

**1402627B**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J07 (B).

**Failing Item:**

- BPD1B-PORT-07-B
- 

**1402627C**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J07 (C).

**Failing Item:**

- BPD1B-PORT-07-C
- 

**1402628A**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J08 (A).

**Failing Item:**

- BPD1B-PORT-08-A
- 

**1402628B**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J08 (B).

**Failing Item:**

- BPD1B-PORT-08-B
- 

**1402628C**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J08 (C).

**Failing Item:**

- BPD1B-PORT-08-C
- 

**1402629A**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J09 (A).

**Failing Item:**

- BPD1B-PORT-09-A
- 

**1402629B**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J09 (B).

**Failing Item:**

- BPD1B-PORT-09-B
- 

**1402629C**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J09 (C).

**Failing Item:**

- BPD1B-PORT-09-C
- 

**140262AA**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J10 (A).

**Failing Item:**

- BPD1B-PORT-10-A
- 

**140262AB**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J10 (B).

**Failing Item:**

- BPD1B-PORT-10-B
- 

**140262AC**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J10 (C).

**Failing Item:**

- BPD1B-PORT-10-C
- 

**1402631A**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J01 (A).

**Failing Item:**

- BPD2B-PORT-01-A
- 

**1402632A**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J02 (A).

**Failing Item:**

- BPD2B-PORT-02-A
-

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1402633A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J03 (A).

**Failing Item:**

- BPD2B-PORT-03-A

---

1402634A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J04 (A).

**Failing Item:**

- BPD2B-PORT-04-A

---

14026350

**Explanation:** An over current condition has been detected for voltage level 50 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL50

---

14026351

**Explanation:** An over current condition has been detected for voltage level 50 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL51

---

14026352

**Explanation:** An over current condition has been detected for voltage level 52 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL52

---

14026353

**Explanation:** An over current condition has been detected for voltage level 53 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL53

---

14026354

**Explanation:** An over current condition has been detected for voltage level 54 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL54

---

14026355

**Explanation:** An over current condition has been detected for voltage level 55 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL55

---

14026356

**Explanation:** An over current condition has been detected for voltage level 56 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL56

---

14026357

**Explanation:** An over current condition has been detected for voltage level 57 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL57

---

14026358

**Explanation:** An over current condition has been detected for voltage level 58 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL58

---

14026359

**Explanation:** An over current condition has been detected for voltage level 59 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL59

---

1402635A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J05 (A).

**Failing Item:**

- BPD2B-PORT-05-A

---

14026360

**Explanation:** An over current condition has been detected for voltage level 60 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL60



---

14026361

**Explanation:** An octant has had multiple voltage levels cause it to go critical.

**Failing Item:**

- OCTANT
- 

## 1402636A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J06 (A).

**Failing Item:**

- BPD2B-PORT-06-A
- 

## 1402637A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (A).

**Failing Item:**

- BPD2B-PORT-07-A
- 

## 1402637B

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (B).

**Failing Item:**

- BPD2B-PORT-07-B
- 

## 1402637C

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (C).

**Failing Item:**

- BPD2B-PORT-07-C
- 

## 1402638A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J08 (A).

**Failing Item:**

- BPD2B-PORT-08-A
- 

## 1402638B

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (B).

**Failing Item:**

- BPD2B-PORT-08-B
- 

## 1402638C

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (C).

**Failing Item:**

- BPD2B-PORT-08-C
- 

## 1402639A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J09 (A).

**Failing Item:**

- BPD2B-PORT-09-A
- 

## 1402639B

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J09 (B).

**Failing Item:**

- BPD2B-PORT-09-B
- 

## 1402639C

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (C).

**Failing Item:**

- BPD2B-PORT-09-C
- 

## 140263AA

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J10 (A).

**Failing Item:**

- BPD2B-PORT-10-A
- 

## 140263AB

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (B).

**Failing Item:**

- BPD2B-PORT-10-B
- 

## 140263AC

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J10 (C).

**Failing Item:**

- BPD2B-PORT-10-C
- 

## 1402641A

**Explanation:** An over current has been detected on 350V between BPD 3B and the load on its port J01 (A).

**Failing Item:**

- BPD3B-PORT-01-A
-

---

1402642A

**Explanation:** An over current has been detected on 350V between BPD 3B and the load on its port J02 (A).

**Failing Item:**

- BPD3B-PORT-02-A

---

1402643A

**Explanation:** An over current has been detected on 350V between BPD 3B and the load on its port J03 (A).

**Failing Item:**

- BPD3B-PORT-03-A

---

1402644A

**Explanation:** An over current has been detected on 350V between BPD 3B and the load on its port J04 (A).

**Failing Item:**

- BPD3B-PORT-04-A

---

14026450

**Explanation:** An over voltage condition has been detected for voltage level 50 specified cage or drawer.

**Failing Item:**

- FRULEVEL50

---

14026451

**Explanation:** An over voltage condition has been detected for voltage level 51 specified cage or drawer.

**Failing Item:**

- FRULEVEL51

---

14026452

**Explanation:** An over voltage condition has been detected for voltage level 52 specified cage or drawer.

**Failing Item:**

- FRULEVEL52

---

14026453

**Explanation:** An over voltage condition has been detected for voltage level 53 specified cage or drawer.

**Failing Item:**

- FRULEVEL53

---

14026454

**Explanation:** An over voltage condition has been detected for voltage level 54 specified cage or drawer.

**Failing Item:**

- FRULEVEL54

---

14026455

**Explanation:** An over voltage condition has been detected for voltage level 55 specified cage or drawer.

**Failing Item:**

- FRULEVEL55

---

14026456

**Explanation:** An over voltage condition has been detected for voltage level 56 specified cage or drawer.

**Failing Item:**

- FRULEVEL56

---

14026457

**Explanation:** An over voltage condition has been detected for voltage level 57 specified cage or drawer.

**Failing Item:**

- FRULEVEL57

---

14026458

**Explanation:** An over voltage condition has been detected for voltage level 58 specified cage or drawer.

**Failing Item:**

- FRULEVEL58

---

14026459

**Explanation:** An over voltage condition has been detected for voltage level 59 specified cage or drawer.

**Failing Item:**

- FRULEVEL59

---

14026460

**Explanation:** An over voltage condition has been detected for voltage level 60 specified cage or drawer.

**Failing Item:**

- FRULEVEL60

---

14027090

**Explanation:** The BPCH in BPA-A is defective.

**Failing Item:**

- BPCH-A

---

**14027091****Explanation:** The BPC in BPA-A is defective.**Failing Item:**

- BPC-A
- 

**14027092****Explanation:** BPD-1 is defective in BPA-A.**Failing Item:**

- BPD-1A
  - BPC-A
- 

**14027093****Explanation:** BPD-2 is defective in BPA-A.**Failing Item:**

- BPD-2A
  - BPC-A
- 

**14027094****Explanation:** BPD-3 is defective in BPA-A.**Failing Item:**

- BPD-3A
  - BPC-A
- 

**14027095****Explanation:** BPA-A BPR-1 is defective.**Failing Item:**

- BPR-1A
  - BPC-A
  - BPD-1A
  - BPD-2A
  - IBF-1A
  - BPE-BOARD-A
- 

**14027096****Explanation:** BPA-A BPR-2 is defective.**Failing Item:**

- BPR-2A
  - BPC-A
  - BPD-1A
  - BPD-2A
  - IBF-2A
  - BPE-BOARD-A
- 

---

**14027097****Explanation:** BPA-A BPR-3 is defective.**Failing Item:**

- BPR-3A
  - BPC-A
  - BPD-1A
  - BPD-2A
  - BPE-BOARD-A
- 

**14027098****Explanation:** BPA-A BPR-4 is defective.**Failing Item:**

- BPR-4A
  - BPC-A
  - BPD-1A
  - BPD-2A
  - BPE-BOARD-A
- 

**14027099****Explanation:** BPA-A BPR-5 is defective.**Failing Item:**

- BPR-5A
  - BPC-A
  - BPD-1A
  - BPD-2A
  - BPE-BOARD-A
- 

**1402709A****Explanation:** BPA-A BPR-6 is defective.**Failing Item:**

- BPR-6A
  - BPC-A
  - BPD-1A
  - BPD-2A
  - BPE-BOARD-A
- 

**1402709B****Explanation:** BPA-A BPH is defective.**Failing Item:**

- BPH-A
  - BPC-A
-

---

140270A1

**Explanation:** BPC-A side detects that IBF-1A is defective. (IBF is connected to BPA-A BPR-1A)

**Failing Item:**

- IBF-1A
- BPR-1A
- CBL-IBF1A
- BPC-A
- BPE-BOARD-A

---

140270A2

**Explanation:** BPC-A side detects that IBF-2A is defective. (IBF is connected to BPA-A BPR-2A)

**Failing Item:**

- IBF-2A
- BPR-2A
- CBL-IBF2A
- BPC-A
- BPE-BOARD-A

---

14027190

**Explanation:** The BPCH in BPA-B is defective.

**Failing Item:**

- BPCH-B

---

14027191

**Explanation:** The BPC in BPA-B is defective.

**Failing Item:**

- BPC-B

---

14027192

**Explanation:** BPD-1 is defective in BPA-B.

**Failing Item:**

- BPD-1B
- BPC-B

---

14027193

**Explanation:** BPD-2 is defective in BPA-B.

**Failing Item:**

- BPD-2B
- BPC-B

---

14027194

**Explanation:** BPD-3 is defective in BPA-B.

**Failing Item:**

- BPD-3B
- BPC-B

---

14027195

**Explanation:** BPA-B BPR-1 is defective.

**Failing Item:**

- BPR-1B
- BPC-B
- BPD-1B
- BPD-2B
- IBF-1B
- BPE-BOARD-B

---

14027196

**Explanation:** BPA-B BPR-2 is defective.

**Failing Item:**

- BPR-2B
- BPC-B
- BPD-1B
- BPD-2B
- IBF-2B
- BPE-BOARD-B

---

14027197

**Explanation:** BPA-B BPR-3 is defective.

**Failing Item:**

- BPR-3B
- BPC-B
- BPD-1B
- BPD-2B
- BPE-BOARD-B

---

14027198

**Explanation:** BPA-B BPR-4 is defective.

**Failing Item:**

- BPR-4B
  - BPC-B
  - BPD-1B
  - BPD-2B
  - BPE-BOARD-B
-

---

**14027199**

**Explanation:** BPA-B BPR-5 is defective.

**Failing Item:**

- BPR-5B
  - BPC-B
  - BPD-1B
  - BPD-2B
  - BPE-BOARD-B
- 

**1402719A**

**Explanation:** BPA-B BPR-6 is defective.

**Failing Item:**

- BPR-6B
  - BPC-B
  - BPD-1B
  - BPD-2B
  - BPE-BOARD-B
- 

**1402719B**

**Explanation:** BPA-B BPH is defective.

**Failing Item:**

- BPH-B
  - BPC-B
- 

**140271A1**

**Explanation:** BPC-B side detects that IBF-1B is defective. (IBF is connected to BPA-B BPR-1B)

**Failing Item:**

- IBF-1B
  - BPR-1B
  - CBL-IBF1B
  - BPC-B
  - BPE-BOARD-B
- 

**140271A2**

**Explanation:** BPC-B side detects that IBF-2B is defective. (IBF is connected to BPA-B BPR-2B)

**Failing Item:**

- IBF-2B
  - BPR-2B
  - CBL-IBF2B
  - BPC-B
  - BPE-BOARD-B
- 

---

**14028072**

**Explanation:** BPA-A has reported a temperature warning in cage - Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

---

**14028073**

**Explanation:** BPA-B has reported a temperature warning in cage - Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

---

**14028074**

**Explanation:** The Room Ambient Humidity has been reported as being out of specification. If unable to correct condition contact next level of support. The Sensor(s) are located in the UEPO assembly.

---

**14028075**

**Explanation:** The Room Dew Point value has been reported as being out of specification. If unable to correct condition contact next level of support. The Sensor(s) are located in the UEPO assembly.

---

**14028076**

**Explanation:** The chilled water feeding the system has returned to normal.

---

**14028081**

**Explanation:** Input power to BPA A has been recovered after loss or partial loss. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028082**

**Explanation:** Input power to BPA B has been recovered after loss or partial loss. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028083**

**Explanation:** Input power to BPA A has been recovered after loss or partial loss. IBM support should be notified of potential problem if this occurs without cause being identified.

---

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**14028084**

**Explanation:** Input power to BPA B has been recovered after loss or partial loss. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**1402808F**

**Explanation:** The system has reached a warning state that indicates a problem with the system input chilled water. If unable to correct condition contact next level of support.

---

**14028090**

**Explanation:** Input power to BPA A line cord 1 has returned to normal levels. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028091**

**Explanation:** Input power to BPA A line cord 2 has returned to normal levels. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028092**

**Explanation:** Input power to BPA B line cord 1 has returned to normal levels. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028093**

**Explanation:** Input power to BPA B line cord 2 has returned to normal levels. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**140280C3**

**Explanation:** A-side BPC detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

**Failing Item:**

- EPO-SWITCH
- BPC-A
- CBL-BPCA-EPO

---

**14028130**

**Explanation:** CAGE P/T Fru recovery. Cage in power recovery mode for information only.

---

**14028131**

**Explanation:** The UEPO switch has been used-This is an informational SRC.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028132**

**Explanation:** A send secure vpd command was received - Informational SRC.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028133**

**Explanation:** A TMS (60) was received - Informational SRC.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028134**

**Explanation:** This contains an ACDL log - Informational SRC.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028135**

**Explanation:** There has been an internal bulk power software error. This is an informational reference code.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028136**

**Explanation:** A PU book has entered throttling mode. This is an informational reference code.

---

**14028172**

**Explanation:** BPA-A has reported a temperature warning in cage - Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books.

---

**14028173**

**Explanation:** BPA-B has reported a temperature warning in cage - Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books.

---

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**140281C3**

**Explanation:** B-side BPC detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

**Failing Item:**

- EPO-SWITCH
  - BPC-B
  - CBL-BPCB-EPO
- 

**140282C3**

**Explanation:** A-side BPCH detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

**Failing Item:**

- EPO-SWITCH
  - BPCH-A
  - CBL-BPCHA-EPO
- 

**140283C3**

**Explanation:** B-side BPCH detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

**Failing Item:**

- EPO-SWITCH
  - BPCH-B
  - CBL-BPCHB-EPO
- 

**14028777**

**Explanation:** This SRC is used to collect data or logs and does not indicate an error or hardware problem.

---

**14028887**

**Explanation:** A DCA identified by the SRC trailer has recovered.

---

**14028888**

**Explanation:** A DCA in the TRES drawer identified by the SRC trailer has recovered.

---

**14029999**

**Explanation:** A bulk power logg has been created by an external command to BPA. Most likely this came from a support personal will investigating a problem. It is not a problem by itself and is for information collecting only.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**1402A006**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T6 has been detected.

**Failing Item:**

- BPCHA-PORT-06
- 

**1402A007**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T7 has been detected.

**Failing Item:**

- BPCHA-PORT-07
- 

**1402A008**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T8 has been detected.

**Failing Item:**

- BPCHA-PORT-08
- 

**1402A009**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T9 has been detected.

**Failing Item:**

- BPCHA-PORT-09
- 

**1402A010**

**Explanation:** A fault between (BPA-A) BPCH and FDT has been detected.

**Failing Item:**

- BPCHA-PORT-10
- 

**1402A011**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T11 has been detected.

**Failing Item:**

- BPCHA-PORT-11
- 

**1402A012**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T12 has been detected..

**Failing Item:**

- BPCHA-PORT-12
- 

**1402A013**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T13 has been detected.

**Failing Item:**

## 1402A014 • 1402A028

- BPCHA-PORT-13

---

### 1402A014

**Explanation:** A fault between (BPA-A) BPCH and the load on port T14 has been detected.

**Failing Item:**

- BPCHA-PORT-14

---

### 1402A015

**Explanation:** A fault between (BPA-A) BPCH and the load on port T15 has been detected.

**Failing Item:**

- BPCHA-PORT-15

---

### 1402A016

**Explanation:** A fault between (BPA-A) BPCH and the load on port T16 has been detected.

**Failing Item:**

- BPCHA-PORT-16

---

### 1402A017

**Explanation:** A fault between (BPA-A) BPCH and the load on port T17 has been detected.

**Failing Item:**

- BPCHA-PORT-17

---

### 1402A018

**Explanation:** A fault between (BPA-A) BPCH and the load on port T18 has been detected.

**Failing Item:**

- BPCHA-PORT-18

---

### 1402A019

**Explanation:** A fault between (BPA-A) BPCH and the load on port T19 has been detected.

**Failing Item:**

- BPCHA-PORT-19

---

### 1402A020

**Explanation:** A fault between (BPA-A) BPCH and the load on port T20 has been detected.

**Failing Item:**

- BPCHA-PORT-20

---

### 1402A021

**Explanation:** A fault between (BPA-A) BPCH and the load on port T21 has been detected.

**Failing Item:**

- BPCHA-PORT-21

---

### 1402A022

**Explanation:** A fault between (BPA-A) BPCH and the load on port T22 has been detected.

**Failing Item:**

- BPCHA-PORT-22

---

### 1402A023

**Explanation:** A fault between (BPA-A) BPCH and the load on port T23 has been detected.

**Failing Item:**

- BPCHA-PORT-23

---

### 1402A024

**Explanation:** A fault between (BPA-A) BPCH and the load on port T24 has been detected.

**Failing Item:**

- BPCHA-PORT-24

---

### 1402A025

**Explanation:** A fault between (BPA-A) BPCH and the load on port T25 has been detected.

**Failing Item:**

- BPCHA-PORT-25

---

### 1402A026

**Explanation:** A fault between (BPA-A) BPCH and the load on port T26 has been detected.

**Failing Item:**

- BPCHA-PORT-26

---

### 1402A027

**Explanation:** A fault between (BPA-A) BPCH and the load on port T27 has been detected.

**Failing Item:**

- BPCHA-PORT-27

---

### 1402A028

**Explanation:** A fault between (BPA-A) BPCH and the load on port T28 has been detected.

**Failing Item:**



- BPCHA-PORT-28

---

**1402A029**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T29 has been detected.

**Failing Item:**

- BPCHA-PORT-29

---

**1402A030**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T30 has been detected.

**Failing Item:**

- BPCHA-PORT-30

---

**1402A031**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T31 has been detected.

**Failing Item:**

- BPCHA-PORT-31

---

**1402A032**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T32 has been detected.

**Failing Item:**

- BPCHA-PORT-32

---

**1402A033**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T33 has been detected.

**Failing Item:**

- BPCHA-PORT-33

---

**1402A034**

**Explanation:** A between (BPA-A) BPCH and the load on port T34 has been detected.

**Failing Item:**

- BPCHA-PORT-34

---

**1402A035**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T35 has been detected.

**Failing Item:**

- BPCHA-PORT-35

---

**1402A036**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T36 has been detected.

**Failing Item:**

- BPCHA-PORT-36

---

**1402A037**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T37 has been detected.

**Failing Item:**

- BPCHA-PORT-37

---

**1402A038**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T38 has been detected.

**Failing Item:**

- BPCHA-PORT-38

---

**1402A039**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T39 has been detected.

**Failing Item:**

- BPCHA-PORT-39

---

**1402A040**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T40 has been detected.

**Failing Item:**

- BPCHA-PORT-40

---

**1402A041**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T41 has been detected.

**Failing Item:**

- BPCHA-PORT-41

---

**1402A042**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T42 has been detected.

**Failing Item:**

- BPCHA-PORT-42

---

**1402A101**

**Explanation:** A fault between (BPA-A) BPD and the load on port T1 has been detected.

**Failing Item:**

## 1402A102 • 1402A116

- BPDA-PORT-01

---

### 1402A102

**Explanation:** A fault between (BPA-A) BPD and the load on port T2 has been detected.

**Failing Item:**

- BPDA-PORT-02

---

### 1402A103

**Explanation:** A fault between (BPA-A) BPD and the load on port T3 has been detected.

**Failing Item:**

- BPDA-PORT-03

---

### 1402A104

**Explanation:** A fault between (BPA-A) BPD and the load on port T4 has been detected.

**Failing Item:**

- BPDA-PORT-04

---

### 1402A105

**Explanation:** A fault between (BPA-A) BPD and the load on port T5 has been detected.

**Failing Item:**

- BPDA-PORT-05

---

### 1402A106

**Explanation:** A fault between (BPA-A) BPD and the load on port T6 has been detected.

**Failing Item:**

- BPDA-PORT-06

---

### 1402A107

**Explanation:** A fault between (BPA-A) BPD and the load on port T7 has been detected.

**Failing Item:**

- BPDA-PORT-07

---

### 1402A108

**Explanation:** A fault between (BPA-A) BPD and the load on port T8 has been detected.

**Failing Item:**

- BPDA-PORT-08

---

### 1402A109

**Explanation:** A fault between (BPA-A) BPD and the load on port T9 has been detected.

**Failing Item:**

- BPDA-PORT-09

---

### 1402A110

**Explanation:** A fault between (BPA-A) BPD and the load on port T10 has been detected.

**Failing Item:**

- BPDA-PORT-10

---

### 1402A111

**Explanation:** A fault between (BPA-A) BPD and the load on port T11 has been detected.

**Failing Item:**

- BPDA-PORT-11

---

### 1402A112

**Explanation:** A fault between (BPA-A) BPD and the load on port T12 has been detected.

**Failing Item:**

- BPDA-PORT-12

---

### 1402A113

**Explanation:** A fault between (BPA-A) BPD and the load on port T13 has been detected.

**Failing Item:**

- BPDA-PORT-13

---

### 1402A114

**Explanation:** A fault between (BPA-A) BPD and the load on port T14 has been detected.

**Failing Item:**

- BPDA-PORT-14

---

### 1402A115

**Explanation:** A fault between (BPA-A) BPD and the load on port T15 has been detected.

**Failing Item:**

- BPDA-PORT-15

---

### 1402A116

**Explanation:** A fault between (BPA-A) BPD and the load on port T16 has been detected.

**Failing Item:**

- BPDA-PORT-16

---

**1402A117**

**Explanation:** A fault between (BPA-A) BPD and the load on port T17 has been detected.

**Failing Item:**

- BPDA-PORT-17

---

**1402A118**

**Explanation:** A fault between (BPA-A) BPD and the load on port T18 has been detected.

**Failing Item:**

- BPDA-PORT-18

---

**1402A119**

**Explanation:** A fault between (BPA-A) BPD and the load on port T19 has been detected.

**Failing Item:**

- BPDA-PORT-19

---

**1402A120**

**Explanation:** A fault between (BPA-A) BPD and the load on port T20 has been detected.

**Failing Item:**

- BPDA-PORT-20

---

**1402A121**

**Explanation:** A fault between (BPA-A) BPD and the load on port T21 has been detected.

**Failing Item:**

- BPDA-PORT-21

---

**1402A122**

**Explanation:** A fault between (BPA-A) BPD and the load on port T22 has been detected.

**Failing Item:**

- BPDA-PORT-22

---

**1402A123**

**Explanation:** A fault between (BPA-A) BPD and the load on port T23 has been detected.

**Failing Item:**

- BPDA-PORT-23

---

**1402A124**

**Explanation:** A fault between (BPA-A) BPD and the load on port T24 has been detected.

**Failing Item:**

- BPDA-PORT-24

---

**1402A125**

**Explanation:** A fault between (BPA-A) BPD and the load on port T25 has been detected.

**Failing Item:**

- BPDA-PORT-25

---

**1402A126**

**Explanation:** A fault between (BPA-A) BPD and the load on port T26 has been detected.

**Failing Item:**

- BPDA-PORT-26

---

**1402B006**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T6 has been detected.

**Failing Item:**

- BPCHB-PORT-06

---

**1402B007**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T7 has been detected.

**Failing Item:**

- BPCHB-PORT-07

---

**1402B008**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T8 has been detected.

**Failing Item:**

- BPCHB-PORT-08

---

**1402B009**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T9 has been detected.

**Failing Item:**

- BPCHB-PORT-09

---

**1402B010**

**Explanation:** A fault between (BPA-B) BPCH and FDT (T10) has been detected.

**Failing Item:**

## 1402B011 • 1402B025

- BPCHB-PORT-10

---

### 1402B011

**Explanation:** A fault between (BPA-B) BPCH and the load on port T11 has been detected.

**Failing Item:**

- BPCHB-PORT-11

---

### 1402B012

**Explanation:** A fault between (BPA-B) BPCH and the load on port T12 has been detected.

**Failing Item:**

- BPCHB-PORT-12

---

### 1402B013

**Explanation:** A fault between (BPA-B) BPCH and the load on port T13 has been detected.

**Failing Item:**

- BPCHB-PORT-13

---

### 1402B014

**Explanation:** A fault between (BPA-B) BPCH and the load on port T14 has been detected.

**Failing Item:**

- BPCHB-PORT-14

---

### 1402B015

**Explanation:** A fault between (BPA-B) BPCH and the load on port T15 has been detected.

**Failing Item:**

- BPCHB-PORT-15

---

### 1402B016

**Explanation:** A fault between (BPA-B) BPCH and the load on port T16 has been detected.

**Failing Item:**

- BPCHB-PORT-16

---

### 1402B017

**Explanation:** A fault between (BPA-B) BPCH and the load on port T17 has been detected.

**Failing Item:**

- BPCHB-PORT-17

---

### 1402B018

**Explanation:** A fault between (BPA-B) BPCH and the load on port T18 has been detected.

**Failing Item:**

- BPCHB-PORT-18

---

### 1402B019

**Explanation:** A fault between (BPA-B) BPCH and the load on port T19 has been detected.

**Failing Item:**

- BPCHB-PORT-19

---

### 1402B020

**Explanation:** A fault between (BPA-B) BPCH and the load on port T20 has been detected.

**Failing Item:**

- BPCHB-PORT-20

---

### 1402B021

**Explanation:** A fault between (BPA-B) BPCH and the load on port T21 has been detected.

**Failing Item:**

- BPCHB-PORT-21

---

### 1402B022

**Explanation:** A fault between (BPA-B) BPCH and the load on port T22 has been detected.

**Failing Item:**

- BPCHB-PORT-22

---

### 1402B023

**Explanation:** A fault between (BPA-B) BPCH and the load on port T23 has been detected.

**Failing Item:**

- BPCHB-PORT-23

---

### 1402B024

**Explanation:** A fault between (BPA-B) BPCH and the load on port T24 has been detected.

**Failing Item:**

- BPCHB-PORT-24

---

### 1402B025

**Explanation:** A fault between (BPA-B) BPCH and the load on port T25 has been detected.

**Failing Item:**

- BPCHB-PORT-25

---

**1402B026**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T26 has been detected.

**Failing Item:**

- BPCHB-PORT-26

---

**1402B027**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T27 has been detected.

**Failing Item:**

- BPCHB-PORT-27

---

**1402B028**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T28 has been detected.

**Failing Item:**

- BPCHB-PORT-28

---

**1402B029**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T29 has been detected.

**Failing Item:**

- BPCHB-PORT-29

---

**1402B030**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T30 has been detected.

**Failing Item:**

- BPCHB-PORT-30

---

**1402B031**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T31 has been detected.

**Failing Item:**

- BPCHB-PORT-31

---

**1402B032**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T32 has been detected.

**Failing Item:**

- BPCHB-PORT-32

---

**1402B033**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T33 has been detected.

**Failing Item:**

- BPCHB-PORT-33

---

**1402B034**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T34 has been detected.

**Failing Item:**

- BPCHB-PORT-34

---

**1402B035**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T35 has been detected.

**Failing Item:**

- BPCHB-PORT-35

---

**1402B036**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T36 has been detected.

**Failing Item:**

- BPCHB-PORT-36

---

**1402B037**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T37 has been detected.

**Failing Item:**

- BPCHB-PORT-37

---

**1402B038**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T38 has been detected.

**Failing Item:**

- BPCHB-PORT-38

---

**1402B039**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T39 has been detected.

**Failing Item:**

- BPCHB-PORT-39

---

**1402B040**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T40 has been detected.

**Failing Item:**

## 1402B041 • 1402B113

- BPCHB-PORT-40

---

### 1402B041

**Explanation:** A fault between (BPA-B) BPCH and the load on port T41 has been detected.

**Failing Item:**

- BPCHB-PORT-41

---

### 1402B042

**Explanation:** A fault between (BPA-B) BPCH and the load on port T42 has been detected.

**Failing Item:**

- BPCHB-PORT-42

---

### 1402B101

**Explanation:** A fault between (BPA-B) BPD and the load on port T1 has been detected.

**Failing Item:**

- BPDB-PORT-01

---

### 1402B102

**Explanation:** A fault between (BPA-B) BPD and the load on port T2 has been detected.

**Failing Item:**

- BPDB-PORT-02

---

### 1402B103

**Explanation:** A fault between (BPA-B) BPD and the load on port T3 has been detected.

**Failing Item:**

- BPDB-PORT-03

---

### 1402B104

**Explanation:** A fault between (BPA-B) BPD and the load on port T4 has been detected.

**Failing Item:**

- BPDB-PORT-04

---

### 1402B105

**Explanation:** A fault between (BPA-B) BPD and the load on port T5 has been detected.

**Failing Item:**

- BPDB-PORT-05

---

### 1402B106

**Explanation:** A fault between (BPA-B) BPD and the load on port T6 has been detected.

**Failing Item:**

- BPDB-PORT-06

---

### 1402B107

**Explanation:** A fault between (BPA-B) BPD and the load on port T7 has been detected.

**Failing Item:**

- BPDB-PORT-07

---

### 1402B108

**Explanation:** A fault between (BPA-B) BPD and the load on port T8 has been detected.

**Failing Item:**

- BPDB-PORT-08

---

### 1402B109

**Explanation:** A fault between (BPA-B) BPD and the load on port T9 has been detected.

**Failing Item:**

- BPDB-PORT-09

---

### 1402B110

**Explanation:** A fault between (BPA-B) BPD and the load on port T10 has been detected.

**Failing Item:**

- BPDB-PORT-10

---

### 1402B111

**Explanation:** A fault between (BPA-B) BPD and the load on port T11 has been detected.

**Failing Item:**

- BPDB-PORT-11

---

### 1402B112

**Explanation:** A fault between (BPA-B) BPD and the load on port T12 has been detected.

**Failing Item:**

- BPDB-PORT-12

---

### 1402B113

**Explanation:** A fault between (BPA-B) BPD and the load on port T13 has been detected.

**Failing Item:**

- BPDB-PORT-13

---

**1402B114**

**Explanation:** A fault between (BPA-B) BPD and the load on port T14 has been detected.

**Failing Item:**

- BPDB-PORT-14

---

**1402B115**

**Explanation:** A fault between (BPA-B) BPD and the load on port T15 has been detected.

**Failing Item:**

- BPDB-PORT-15

---

**1402B116**

**Explanation:** A fault between (BPA-B) BPD and the load on port T16 has been detected.

**Failing Item:**

- BPDB-PORT-16

---

**1402B117**

**Explanation:** A fault between (BPA-B) BPD and the load on port T17 has been detected.

**Failing Item:**

- BPDB-PORT-17

---

**1402B118**

**Explanation:** A fault between (BPA-B) BPD and the load on port T18 has been detected.

**Failing Item:**

- BPDB-PORT-18

---

**1402B119**

**Explanation:** A fault between (BPA-B) BPD and the load on port T19 has been detected.

**Failing Item:**

- BPDB-PORT-19

---

**1402B120**

**Explanation:** A fault between (BPA-B) BPD and the load on port T20 has been detected.

**Failing Item:**

- BPDB-PORT-20

---

**1402B121**

**Explanation:** A fault between (BPA-B) BPD and the load on port T21 has been detected.

**Failing Item:**

- BPDB-PORT-21

---

**1402B122**

**Explanation:** A fault between (BPA-B) BPD and the load on port T22 has been detected.

**Failing Item:**

- BPDB-PORT-22

---

**1402B123**

**Explanation:** A fault between (BPA-B) BPD and the load on port T23 has been detected.

**Failing Item:**

- BPDB-PORT-23

---

**1402B124**

**Explanation:** A fault between (BPA-B) BPD and the load on port T24 has been detected.

**Failing Item:**

- BPDB-PORT-24

---

**1402B125**

**Explanation:** A fault between (BPA-B) BPD and the load on port T25 has been detected.

**Failing Item:**

- BPDB-PORT-25

---

**1402B126**

**Explanation:** A fault between (BPA-B) BPD and the load on port T26 has been detected.

**Failing Item:**

- BPDB-PORT-26

---

**1402C018**

**Explanation:** The P1 node has indicated a failure and needs to be replaced.

**Failing Item:**

- P1\_NODE

---

**1402C020**

**Explanation:** The P2 node has indicated failure and needs to be replaced.

**Failing Item:**

## 1402C021 • 1402C0F1

- P2\_NODE

---

### 1402C021

**Explanation:** The P3 node has indicated failure and needs to be replaced.

**Failing Item:**

- P3\_NODE

---

### 1402C022

**Explanation:** The P4 node has indicated failure and needs to be replaced.

**Failing Item:**

- P4\_NODE

---

### 1402C023

**Explanation:** The P5 node has indicated failure and needs to be replaced.

**Failing Item:**

- P5\_NODE

---

### 1402C024

**Explanation:** The P6 node has indicated failure and needs to be replaced.

**Failing Item:**

- P6\_NODE

---

### 1402C025

**Explanation:** The P7 node has indicated failure and needs to be replaced.

**Failing Item:**

- P7\_NODE

---

### 1402C026

**Explanation:** The P8 node has indicated failure and needs to be replaced.

**Failing Item:**

- P8\_NODE

---

### 1402C027

**Explanation:** The P9 node has indicated failure and needs to be replaced.

**Failing Item:**

- P9\_NODE

---

### 1402C028

**Explanation:** The P10 node has indicated failure and needs to be replaced.

**Failing Item:**

- P10\_NODE

---

### 1402C029

**Explanation:** The P11 node has indicated failure and needs to be replaced.

**Failing Item:**

- P11\_NODE

---

### 1402C030

**Explanation:** The P12 node has indicated failure and needs to be replaced.

**Failing Item:**

- P12\_NODE

---

### 1402C0F0

**Explanation:** The temperature sensed in a PU book has reached a warning level. The Processor has gone into Low Power mode - Look for potential hardware failures. Next level of support should be notified of potential problem.

---

### 1402C0F1

**Explanation:** The temperature sensed in a PU book has returned to normal from a warning level. Next level of support should be notified of potential problem.



---

## (169C) Reference codes

---

### 169C102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 169C3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 169C3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 169C3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 169C3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 169C3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 169C3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 169C310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 169C310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 169C3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 169C3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 169C34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

169C4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

169C4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

169C4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

169C4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

169C7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

169C7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

169C70DD

**Explanation:** System log entry only, no service action required.

---

169CFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

169CFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

169CFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

169CFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

169CFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

169CFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**169CFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**169CFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**169CFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**169CFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**169CFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (1750) Reference codes

---

### 17503002

**Explanation:** Addressed device is not responding.

**Failing Item:**

- FCPORT
  - FCDEV
  - FCIOA
  - FCINTF
  - OPT\_CLN
- 

### 17503010

**Explanation:** Disk device returned wrong response to IOP.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 17503020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 17503029

**Explanation:** This SRC is surfaced when the IOP detects that a device has changed Serial numbers. A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 17503100

**Explanation:** Fibre Channel interface error occurred.

**Failing Item:**

- FCINTF
  - FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 17503109

**Explanation:** IOP timed out a disk command.

**Failing Item:**

- FCDEV
  - FCINTF
  - FCIOA
  - OPT\_CLN
- 

### 17503160

**Explanation:** The volume in use is no longer accessible.

**Response:** The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV
- 

### 17503161

**Explanation:** The volume in use is no longer accessible.

**Response:** Storage subsystem copy services functions have caused the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV
- 

### 17503162

**Explanation:** The volume has been released.

The storage subsystem configuration was changed. The volume that was not in use was removed and is no longer accessible.

**Response:** No action required. This reference code is logged for information only.

---

### 175034FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

### 1750FFF3

**Explanation:** Disk media format bad.

**Failing Item:**

## 1750FFF4 • 1750FFFE

- FCDEV

---

### 1750FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- FCDEV

---

### 1750FFF5

**Explanation:** Disk sector read error.

**Failing Item:**

- FCDEV

---

### 1750FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV

---

### 1750FFFA

**Explanation:** Disk device wrong response was recovered by the IOP.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
- FCIOA
- OPT\_CLN

---

### 1750FFFE

**Explanation:** Temporary Fibre Channel interface error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN

---

## (198B) Reference codes

---

### 198B102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 198B3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 198B3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 198B3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 198B3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 198B3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 198B3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 198B310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 198B310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 198B3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 198B3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 198B34FF

**Explanation:** Format in progress.

---

**Response:** No action required. This reference code is logged for information only.

---

198B4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

198B4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

198B4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

198B4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

198B7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

198B7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198B70DD

**Explanation:** System log entry only, no service action required.

---

198BFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

198BFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

198BFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198BFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198BFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198BFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198BFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198BFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**198BFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198BFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198BFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (198C) Reference codes

---

### 198C102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 198C3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 198C3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 198C3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 198C3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 198C3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 198C3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 198C310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 198C310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 198C3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 198C3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 198C34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

198C4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

198C4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

198C4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

198C4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

198C7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

198C7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198C70DD

**Explanation:** System log entry only, no service action required.

---

198CFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

198CFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

198CFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198CFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198CFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198CFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198CFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198CFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**198CFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198CFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198CFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (198D) Reference codes

---

### 198D102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 198D3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 198D3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 198D3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 198D3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 198D3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 198D3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 198D310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 198D310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 198D3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 198D3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 198D34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

198D4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

198D4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

198D4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

198D4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

198D7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

198D7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198D70DD

**Explanation:** System log entry only, no service action required.

---

198DFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

198DFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

198DFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198DFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198DFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198DFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198DFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198DFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**198DFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198DFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198DFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (198E) Reference codes

---

### 198E102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 198E3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 198E3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 198E3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 198E3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 198E3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 198E3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 198E310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 198E310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 198E3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 198E3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 198E34FF

**Explanation:** Format in progress.

---

## 198E4041 • 198EFFF9

**Response:** No action required. This reference code is logged for information only.

---

### 198E4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 198E4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 198E4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 198E4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 198E7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 198E7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 198E70DD

**Explanation:** System log entry only, no service action required.

---

### 198EFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 198EFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 198EFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 198EFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 198EFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 198EFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198EFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198EFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**198EFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198EFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198EFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19A1) Reference codes

---

### 19A1102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 19A13002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 19A13010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19A13020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 19A13029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 19A13100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 19A13109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19A1310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 19A1310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 19A13110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19A13130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 19A134FF

**Explanation:** Format in progress.

## 19A14041 • 19A1FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 19A14041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 19A14060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 19A14061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 19A14100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 19A17000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 19A17001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A170DD

**Explanation:** System log entry only, no service action required.

---

### 19A1FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 19A1FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 19A1FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A1FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A1FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A1FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19A1FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19A1FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**19A1FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A1FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A1FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19A3) Reference codes

---

### 19A3102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 19A33002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 19A33010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19A33020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 19A33029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 19A33100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 19A33109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19A3310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 19A3310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 19A33110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19A33130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 19A334FF

**Explanation:** Format in progress.

## 19A34041 • 19A3FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 19A34041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 19A34060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 19A34061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 19A34100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 19A37000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 19A37001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A370DD

**Explanation:** System log entry only, no service action required.

---

### 19A3FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 19A3FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 19A3FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A3FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A3FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A3FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19A3FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19A3FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**19A3FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A3FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A3FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19A4) Reference codes

---

### 19A4102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 19A43002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 19A43010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19A43020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 19A43029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 19A43100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 19A43109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19A4310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19A4310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19A43110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19A43130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 19A434FF

**Explanation:** Format in progress.

## 19A44041 • 19A4FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 19A44041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 19A44060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 19A44061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 19A44100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 19A47000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 19A47001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A470DD

**Explanation:** System log entry only, no service action required.

---

### 19A4FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 19A4FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 19A4FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A4FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A4FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19A4FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19A4FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19A4FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**19A4FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A4FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A4FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B0) Reference codes

---

### 19B0102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 19B03002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 19B03010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B03020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 19B03029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 19B03100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 19B03109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B0310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19B0310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19B03110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B03130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 19B034FF

**Explanation:** Format in progress.

---

## 19B04041 • 19B0FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 19B04041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 19B04060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 19B04061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 19B04100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 19B07000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 19B07001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B070DD

**Explanation:** System log entry only, no service action required.

---

### 19B0FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 19B0FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 19B0FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B0FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B0FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B0FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B0FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B0FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**19B0FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B0FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B0FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B1) Reference codes

---

### 19B1102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 19B13002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 19B13010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B13020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 19B13029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 19B13100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 19B13109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B1310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19B1310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19B13110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B13130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 19B134FF

**Explanation:** Format in progress.

---

## 19B14041 • 19B1FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 19B14041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 19B14060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 19B14061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 19B14100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 19B17000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 19B17001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B170DD

**Explanation:** System log entry only, no service action required.

---

### 19B1FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 19B1FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 19B1FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B1FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B1FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B1FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B1FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B1FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**19B1FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B1FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B1FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B3) Reference codes

---

### 19B3102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 19B33002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 19B33010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B33020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 19B33029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 19B33100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 19B33109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B3310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19B3310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19B33110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B33130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 19B334FF

**Explanation:** Format in progress.

---

## 19B34041 • 19B3FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 19B34041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 19B34060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 19B34061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 19B34100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 19B37000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 19B37001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B370DD

**Explanation:** System log entry only, no service action required.

---

### 19B3FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 19B3FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 19B3FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B3FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B3FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B3FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B3FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B3FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**19B3FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B3FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B3FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B4) Reference codes

---

### 19B4102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 19B43002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 19B43010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19B43020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 19B43029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 19B43100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 19B43109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19B4310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 19B4310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 19B43110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19B43130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 19B434FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

19B44041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

19B44060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

19B44061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

19B44100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

19B47000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

19B47001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19B470DD

**Explanation:** System log entry only, no service action required.

---

19B4FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

19B4FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

19B4FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19B4FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19B4FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19B4FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B4FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B4FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**19B4FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B4FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B4FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B5) Reference codes

---

### 19B5102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 19B53002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 19B53010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19B53020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 19B53029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 19B53100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 19B53109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19B5310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 19B5310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 19B53110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 19B53130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 19B534FF

**Explanation:** Format in progress.

## 19B54041 • 19B5FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 19B54041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 19B54060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 19B54061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 19B54100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 19B57000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 19B57001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B570DD

**Explanation:** System log entry only, no service action required.

---

### 19B5FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 19B5FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 19B5FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B5FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B5FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 19B5FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B5FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B5FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**19B5FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B5FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B5FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B7) Reference codes

---

### 19B7102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 19B73002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 19B73010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B73020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 19B73029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 19B73100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 19B73109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B7310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19B7310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 19B73110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 19B73130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 19B734FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

19B74041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

19B74060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

19B74061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

19B74100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

19B77000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

19B77001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19B770DD

**Explanation:** System log entry only, no service action required.

---

19B7FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

19B7FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

19B7FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19B7FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19B7FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19B7FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B7FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B7FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**19B7FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B7FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B7FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (2058) Reference codes

---

2058B990

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- FI00130
- IOP
- MA\_BRDG



---

## (2105) Reference codes

---

### 21053002

**Explanation:** Addressed device is not responding.

**Failing Item:**

- FCPORT
  - FCDEV
  - FCIOA
  - FCINTF
  - OPT\_CLN
- 

### 21053010

**Explanation:** Disk device returned wrong response to IOP.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 21053020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 21053029

**Explanation:** This SRC is surfaced when the IOP detects that a device has changed Serial numbers. A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 21053100

**Explanation:** Fibre Channel interface error occurred.

**Failing Item:**

- FCINTF
  - FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 21053109

**Explanation:** IOP timed out a disk command.

**Failing Item:**

- FCDEV
  - FCINTF
  - FCIOA
  - OPT\_CLN
- 

### 21053160

**Explanation:** The volume in use is no longer accessible.

**Response:** The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV
- 

### 21053161

**Explanation:** The volume in use is no longer accessible.

**Response:** Storage subsystem copy services functions have caused the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV
- 

### 21053162

**Explanation:** The volume has been released.

The storage subsystem configuration was changed. The volume that was not in use was removed and is no longer accessible.

**Response:** No action required. This reference code is logged for information only.

---

### 210534FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

### 2105FFF3

**Explanation:** Disk media format bad.

**Failing Item:**

## 2105FFF4 • 2105FFFE

- FCDEV
- 

### 2105FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- FCDEV
- 

### 2105FFF5

**Explanation:** Disk sector read error.

**Failing Item:**

- FCDEV
- 

### 2105FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
- 

### 2105FFFA

**Explanation:** Disk device wrong response was recovered by the IOP.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 2105FFFE

**Explanation:** Temporary Fibre Channel interface error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN

---

## (2107) Reference codes

---

### 21073002

**Explanation:** Addressed device is not responding.

**Failing Item:**

- FCPORT
  - FCDEV
  - FCIOA
  - FCINTF
  - OPT\_CLN
- 

### 21073010

**Explanation:** Disk device returned wrong response to IOP.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 21073020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 21073029

**Explanation:** This SRC is surfaced when the IOP detects that a device has changed Serial numbers. A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 21073100

**Explanation:** Fibre Channel interface error occurred.

**Failing Item:**

- FCINTF
  - FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 21073109

**Explanation:** IOP timed out a disk command.

**Failing Item:**

- FCDEV
  - FCINTF
  - FCIOA
  - OPT\_CLN
- 

### 21073160

**Explanation:** The volume in use is no longer accessible.

**Response:** The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV
- 

### 21073161

**Explanation:** The volume in use is no longer accessible.

**Response:** Storage subsystem copy services functions have caused the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV
- 

### 21073162

**Explanation:** The volume has been released.

The storage subsystem configuration was changed. The volume that was not in use was removed and is no longer accessible.

**Response:** No action required. This reference code is logged for information only.

---

### 210734FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

### 2107FFF3

**Explanation:** Disk media format bad.

**Failing Item:**

## 2107FFF4 • 2107FFFE

- FCDEV

---

### 2107FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- FCDEV

---

### 2107FFF5

**Explanation:** Disk sector read error.

**Failing Item:**

- FCDEV

---

### 2107FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV

---

### 2107FFFA

**Explanation:** Disk device wrong response was recovered by the IOP.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
- FCIOA
- OPT\_CLN

---

### 2107FFFE

**Explanation:** Temporary Fibre Channel interface error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN



---

## (2145) Reference codes

---

21453002

**Explanation:** Addressed device is not responding.

**Failing Item:**

- FCPORT
  - FCDEV
  - FCIOA
  - FCINTF
  - OPT\_CLN
- 

21453010

**Explanation:** Disk device returned wrong response to IOP.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

21453020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

21453029

**Explanation:** This SRC is surfaced when the IOP detects that a device has changed Serial numbers. A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

21453100

**Explanation:** Fibre Channel interface error occurred.

**Failing Item:**

- FCINTF
  - FCDEV
  - FCIOA
  - OPT\_CLN
- 

21453109

**Explanation:** IOP timed out a disk command.

**Failing Item:**

- FCDEV
  - FCINTF
  - FCIOA
  - OPT\_CLN
- 

21453160

**Explanation:** The volume in use is no longer accessible.

**Response:** The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV
- 

21453161

**Explanation:** The volume in use is no longer accessible.

**Response:** Storage subsystem copy services functions have caused the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV
- 

21453162

**Explanation:** The volume has been released.

The storage subsystem configuration was changed. The volume that was not in use was removed and is no longer accessible.

**Response:** No action required. This reference code is logged for information only.

---

214534FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

2145FFF3

**Explanation:** Disk media format bad.

**Failing Item:**

## 2145FFF4 • 2145FFFE

- FCDEV

---

### 2145FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- FCDEV

---

### 2145FFF5

**Explanation:** Disk sector read error.

**Failing Item:**

- FCDEV

---

### 2145FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV

---

### 2145FFFA

**Explanation:** Disk device wrong response was recovered by the IOP.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
- FCIOA
- OPT\_CLN

---

### 2145FFFE

**Explanation:** Temporary Fibre Channel interface error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN

---

## (266D) Reference codes

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### 266DA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 266DB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (266E) Reference codes

---

### 266EA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 266EB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (266F) Reference codes

---

### 266FA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301

---

### 266FB904

**Explanation:** I/O Adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- FI00719

---

### 266FB934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- FI00718

---

### 266FB940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

### 266FB941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01

---

### 266FB942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01

---

### 266FB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301





---

## (2689) Reference codes

---

26890A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- AJDG301
- AJDGP01

---

26890A22

**Explanation:** Adapter card storage error.

**Failing Item:**

- AJDGP01
- AJDG301
- IOA

---

26891307

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
- AJDG301

---

26891310

**Explanation:** I/O adapter resource not available.

**Response:** The INA processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

**Failing Item:**

- IOA
- AJDGP01

---

26893000

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- AJDGP01

---

26893001

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- IOA

- AJDGP01

---

26893006

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- ANYBUS

---

26893080

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01

---

26893081

**Explanation:** I/O adapter error; logged only.

---

26893084

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOA

---

26893087

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
- AJDG301
- NTUSER

---

26896070

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA

---

26896071

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01

---

26896072

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOA

---

26896075

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01

---

26896083

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOA

---

26896085

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOA

---

26896201

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- AJDGP01

---

26896202

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOA

---

26896203

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- NETSERV
- IOA
- AJDGP01

---

26896210

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- NETSERV
- AJDGP01

---

26896222

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- IOA

---

26896223

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- AJDGP01

---

26896225

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- AJDG301
- IOA

---

26896226

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- AJDG301
- AS4NTDD

---

26896227

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTUSER
- AJDGP01
- IOA

---

26896228

**Explanation:** Windows initiated a warm boot.

**Failing Item:**

- AJDGP01

- IOA

---

**26896501**

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- IOA
  - AJDGP01
- 

**26896502**

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- AJDGP01
  - IOA
- 

**26896530**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - NTOPSYS
- 

**26896531**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - AS4NTDD
  - NTOPSYS
  - AJDGP01
- 

**26896532**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
  - AJDGP01
  - AS4NTDD
- 

**26896533**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

**26896534**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
  - AJDGP01
  - NTOPSYS
- 

**26896535**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTDEVDR
  - AJDGP01
- 

**26896538**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - NTOPSYS
- 

**26896539**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - AS4NTDD
  - NTOPSYS
  - AJDGP01
- 

**2689653A**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
  - AJDGP01
  - AS4NTDD
- 

**2689653B**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTOPSYS
  - AS4NTDD
-

---

2689653C

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- AJDGP01
- NTOPSYS

---

2689653D

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTDEVDR
- AJDGP01

---

2689653F

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTDEVDR
- NTOPSYS
- AJDG301

---

26896540

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AJDGP01
- AJDG301

---

26896541

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- AJDGP01

---

26896542

**Explanation:** Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- AJDGP01

---

26896543

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- NTOPSYS

- NTVSCSI

---

26896544

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

26896580

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- DISKIMG
- IOA
- AJDGP01

---

26896590

**Explanation:** A Netfinity Server error was detected.

---

268965B0

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTLANDD
- NTOPSYS

---

268965B1

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTLANDD
- NTOPSYS
- AJDG301

---

268965B2

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTDEVDR
- NTOPSYS
- AJDG301

---

26898301

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOA

---

**2689B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- 

**2689B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- 

**2689B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- 

**2689B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- 

**2689B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- 

**2689B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- 

**2689B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- 

**2689B3B8**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- 

---

**2689B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
- 

**2689B3E0**

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOA
- 

**2689B3E1**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- 

**2689B4B0**

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- 

**2689B4B1**

**Explanation:** A Netfinity Server error was detected.

**Failing Item:**

- NETSERV
  - AJDGP01
- 

**2689B4B9**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- 

**2689B4BC**

**Explanation:** A Netfinity Server error was detected.

**Failing Item:**

- NETSERV
- 

**2689B4BF**

**Explanation:** A Netfinity Server error was detected.

**Failing Item:**

- NSCABLE
-

## 2689B904 • 2689BE00

---

### 2689B904

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - IOA
- 

### 2689B935

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- AJDGP01
  - IOA
- 

### 2689B960

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOA
- 

### 2689BE00

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOA

---

## (2742) Reference codes

---

### 2742A001

**Explanation:** Communications I/O adapter software error or failure configuring hardware.

**Failing Item:**

- NEXTLVL
- 

### 2742B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - AJDGP01
  - MA\_BRDG
- 

### 2742B941

**Explanation:** One of the ports on the IOA has failed.

**Failing Item:**

- FI00719
- AJDGP01





---

## (2743) Reference codes

---

### 2743B950

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- FI00718
- FI00719

---

### 2743B951

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG



---

## (2744) Reference codes

---

### 2744B904

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00719
- 

### 2744B920

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00718
  - FI00719
- 

### 2744B921

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 2744B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- FI00718



---

## (2745) Reference codes

---

### 2745B904

**Explanation:** I/O Adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00719
- 

### 2745B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
  - FI00718
- 

### 2745B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 2745B941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
- 

### 2745B942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01



---

## (2746) Reference codes

---

### 2746B904

**Explanation:** I/O Adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00719
- 

### 2746B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
  - FI00718
- 

### 2746B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 2746B941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
- 

### 2746B942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01





---

## (2749) Reference codes

---

### 27490A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 27490A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 2749102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- FI01105
- 

### 27491306

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

### 27491307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 27491310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 27491317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 27492200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 27492201

**Explanation:** Removable media error during IPL.

**Failing Item:**

- USER
  - FI01105
- 

### 27492202

**Explanation:** Removable media error during IPL.

**Failing Item:**

- FI00022
  - FI01105
- 

### 27493000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 27493001 • 27493084

- FI01101
- IOP
- MA\_BRDG

---

### 27493001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 27493002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 27493006

**Explanation:** System bus error.

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 27493020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27493021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27493022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27493023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27493080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 27493081

**Explanation:** System log entry only, no service action required.

---

### 27493084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

**27493087**

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**27493100**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**27493101**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**27493102**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**27493103**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**27493109**

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27493110**

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27493120**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**27493121**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**27493122**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**27493123**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**27493136**

**Explanation:** The removable media device is assigned elsewhere.

**Failing Item:**

- USER
- FI01105

---

**27493140**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

**27493141**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

**27493142**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

**27493143**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

**27493150**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

**27493151**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**27493200**

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

**27493203**

**Explanation:** Disk media format bad.

**Failing Item:**

- FI01105

---

**27493205**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

**27493215**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

**27493250**

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

**27493300**

**Explanation:** Storage unit detected a media problem.

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**27493400**

**Explanation:** I/O processor card detected device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**27493401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**27493501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

---

**27493600**

**Explanation:** System log entry only, no service action required.

---

**27493601**

**Explanation:** System log entry only, no service action required.

---

**27496070**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**27496071**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**27496072**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27496073**

**Explanation:** IPL device not ready.

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**27496075**

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
- 

**27496076**

**Explanation:** I/O processor card detected media error.

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

27496081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27496082

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27496083

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27496085

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

27496200

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

27496201

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01

---

27496602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

27498000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

27498002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

27498004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

27498005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

27498007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

**27498010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**27498011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**27498100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27498130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

**27498131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

**27498132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**27498133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**27498140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**27498141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**27498145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**27498146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**27498150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**27498151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

**27498155**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**27498156**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**27498157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

**27498200**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27498300**

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

**27498301**

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

**27498400**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**27499000**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**27499001**

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

**27499002**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27499008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
-



---

**27499009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**27499010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**27499011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**27499012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**27499013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**27499020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**27499021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**27499022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27499023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27499024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27499025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**27499026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27499027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**27499028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

27499029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

## 2749902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

## 27499030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21
- 

## 27499031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

## 27499040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

## 27499041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01
- 

## 27499050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27499051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

## 27499052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28
- 

## 27499053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

## 27499054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

## 27499081

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

---

**27499082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27499090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**27499091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**27499092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**2749B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2749B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2749B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2749B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2749B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2749B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2749B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2749B3B8**

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2749B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 2749B3E0 • 2749FF6D

- IOP

---

### 2749B3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2749B3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2749B410

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2749B411

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2749B412

**Explanation:** Tape/CD or disk bus interface error occurred.

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

### 2749B935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

### 2749BE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

### 2749FF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2749FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2757) Reference codes

---

27571310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

27573006

**Explanation:** System bus error.

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

27573020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27573021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27573022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

27573023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27573100

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27573101

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27573102

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 27573103 • 27573151

- FI01140
- DEVBPLN

---

### 27573103

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 27573120

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27573121

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27573122

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27573123

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27573140

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

### 27573141

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

### 27573142

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

### 27573143

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

### 27573150

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 27573151

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**27573400**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**27573401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**27573501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27573600**

**Explanation:** System log entry only, no service action required.

---

**27573601**

**Explanation:** System log entry only, no service action required.

---

**27578008**

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

---

**27578009**

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

**27578012**

**Explanation:** Attached read cache devices exceed capacity supported by IOA.

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

**27578100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27578130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**27578131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**27578132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**27578133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27578140

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

27578141

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

27578145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

27578146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

27578150

**Explanation:** A permanent I/O processor failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

27578151

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- STORIOA

---

27578155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

27578156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

27578157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

27578200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27579000

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
-



---

27579001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

## 27579002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

## 27579008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
- 

## 27579009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

## 27579010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

## 27579011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

## 27579020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

27579021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

## 27579022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27579023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27579024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27579025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

## 27579026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27579027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

## 27579028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

27579029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2757902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27579030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

27579031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27579032

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

27579040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

27579041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27579042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

27579050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27579051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27579052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27579053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**27579054**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**27579071**

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

**27579072**

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

**27579073**

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

**27579081**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

**27579082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

**27579090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**27579091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**27579092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

**27579093**

**Explanation:** Read cache device not in correct format.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

**2757B934**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

**2757FF3D**

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA

## 2757FF6D

- ANYBRDG

---

## 2757FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2760) Reference codes

---

### 2760B950

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- FI00718
- FI00719

---

### 2760B951

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG



---

## (2763) Reference codes

---

### 27631310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 27633006

**Explanation:** System bus error.

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

### 27633020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 27633021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 27633022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

### 27633023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 27633100

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 27633101

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 27633102

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 27633103 • 27633151

- FI01140
- DEVBPLN

---

### 27633103

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 27633120

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27633121

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27633122

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27633123

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27633140

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

### 27633141

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

### 27633142

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

### 27633143

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

### 27633150

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 27633151

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS



---

**27633400**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**27633401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**27633501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27633600**

**Explanation:** System log entry only, no service action required.

---

**27633601**

**Explanation:** System log entry only, no service action required.

---

**27638008**

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

---

**27638009**

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

**27638012**

**Explanation:** Attached read cache devices exceed capacity supported by IOA.

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

**27638100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27638130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**27638131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**27638132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**27638133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27638140

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

27638141

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

27638145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

27638146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

27638150

**Explanation:** A permanent I/O processor failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

27638151

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- STORIOA

---

27638155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

27638156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

27638157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

27638200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27639000

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
-

---

27639001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

## 27639002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

## 27639008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
- 

## 27639009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

## 27639010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

## 27639011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

## 27639020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

27639021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

## 27639022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27639023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27639024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27639025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

## 27639026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27639027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

## 27639028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

27639029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2763902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27639030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

27639031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27639032

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

27639040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

27639041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27639042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

27639050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27639051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27639052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27639053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**27639054**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**27639071**

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

**27639072**

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

**27639073**

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

**27639081**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

**27639082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

**27639090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**27639091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**27639092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

**27639093**

**Explanation:** Read cache device not in correct format.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

**2763B934**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

**2763FF3D**

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA

## 2763FF6D

- ANYBRDG

---

## 2763FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2765) Reference codes

---

### 27651310

**Explanation:** I/O processor or I/O adapter resource not available.

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 27653020

**Explanation:** I/O processor detected a configuration error.

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 27653100

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 27653120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 27653140

**Explanation:** I/O Processor detected that a port is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 27653200

**Explanation:** A disk device reported a failure.

**Failing Item:**

- FCDEV
  - FCIOA
  - IOP
  - OPT\_CLN
- 

### 27653400

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 276534FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

### 27658130

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 27658140

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 27658141

**Explanation:** IOA detected recoverable device error.

**Response:** No action required. This reference code is

logged for information only.

---

27658145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

27658146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FCDEV

---

27658150

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

27658151

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

27658155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

27658156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

27659091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27659092

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2765FF3D

**Explanation:** Recovered IOA error.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN



---

## (2766) Reference codes

---

### 27661310

**Explanation:** I/O processor or I/O adapter resource not available.

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 27663020

**Explanation:** I/O processor detected a configuration error.

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 27663100

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 27663120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 27663140

**Explanation:** I/O Processor detected that a port is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 27663200

**Explanation:** A disk device reported a failure.

**Failing Item:**

- FCDEV
  - FCIOA
  - IOP
  - OPT\_CLN
- 

### 27663400

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 276634FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

### 27668130

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 27668140

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 27668141

**Explanation:** IOA detected recoverable device error.

**Response:** No action required. This reference code is

logged for information only.

---

27668145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

27668146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FCDEV

---

27668150

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

27668151

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

27668155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

27668156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

27669091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27669092

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2766FF3D

**Explanation:** Recovered IOA error.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

## (2767) Reference codes

---

### 27670A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 27670A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 2767102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- FI01105
- 

### 27671306

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

### 27671307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 27671310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 27671317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 27672200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 27672201

**Explanation:** Removable media error during IPL.

**Failing Item:**

- USER
  - FI01105
- 

### 27672202

**Explanation:** Removable media error during IPL.

**Failing Item:**

- FI00022
  - FI01105
- 

### 27673000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 27673001 • 27673084

- FI01101
- IOP
- MA\_BRDG

---

### 27673001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 27673002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 27673006

**Explanation:** System bus error.

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 27673020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27673021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27673022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27673023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27673080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 27673081

**Explanation:** System log entry only, no service action required.

---

### 27673084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

**27673087**

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**27673100**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**27673101**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**27673102**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**27673103**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**27673109**

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27673110**

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27673120**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**27673121**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**27673122**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**27673123**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**27673136**

**Explanation:** The removable media device is assigned elsewhere.

**Failing Item:**

- USER
- FI01105

---

**27673140**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

**27673141**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

**27673142**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

**27673143**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

**27673150**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

**27673151**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**27673200**

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

**27673203**

**Explanation:** Disk media format bad.

**Failing Item:**

- FI01105

---

**27673205**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

**27673215**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

**27673250**

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

**27673300**

**Explanation:** Storage unit detected a media problem.

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**27673400**

**Explanation:** I/O processor card detected device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**27673401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**27673501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

---

**27673600**

**Explanation:** System log entry only, no service action required.

---

**27673601**

**Explanation:** System log entry only, no service action required.

---

**27676070**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**27676071**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**27676072**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27676073**

**Explanation:** IPL device not ready.

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**27676075**

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
- 

**27676076**

**Explanation:** I/O processor card detected media error.

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

27676081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27676082

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27676083

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27676085

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

27676200

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

27676201

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01

---

27676602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

27678000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

27678002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

27678004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

27678005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

27678007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA



---

**27678010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**27678011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**27678100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27678130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**27678131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**27678132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**27678133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**27678140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**27678141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**27678145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**27678146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**27678150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**27678151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

27678155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

## 27678156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

## 27678157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

## 27678200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

## 27678300

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

27678301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

## 27678400

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

## 27679000

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

## 27679001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

## 27679002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

## 27679008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
-

---

**27679009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**27679010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**27679011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**27679012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**27679013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**27679020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**27679021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**27679022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27679023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27679024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27679025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**27679026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27679027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**27679028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

27679029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2767902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27679030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

27679031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27679040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

27679041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27679050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27679051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27679052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

27679053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27679054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27679081

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

---

**27679082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27679090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**27679091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**27679092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**2767B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2767B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2767B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2767B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2767B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2767B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2767B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2767B3B8**

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2767B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 2767B3E0 • 2767FF6D

- IOP

---

### 2767B3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2767B3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2767B410

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2767B411

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2767B412

**Explanation:** Tape/CD or disk bus interface error occurred.

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

### 2767B935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

### 2767BE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

### 2767FF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2767FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2768) Reference codes

---

### 27680A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 27680A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 2768102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- FI01105
- 

### 27681306

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

### 27681307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 27681310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 27681317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 27682200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 27682201

**Explanation:** Removable media error during IPL.

**Failing Item:**

- USER
  - FI01105
- 

### 27682202

**Explanation:** Removable media error during IPL.

**Failing Item:**

- FI00022
  - FI01105
- 

### 27683000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 27683001 • 27683084

- FI01101
- IOP
- MA\_BRDG

---

### 27683001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 27683002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 27683006

**Explanation:** System bus error.

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 27683020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27683021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27683022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27683023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 27683080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 27683081

**Explanation:** System log entry only, no service action required.

---

### 27683084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG



---

**27683087**

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**27683100**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**27683101**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**27683102**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**27683103**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**27683109**

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27683110**

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27683120**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**27683121**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**27683122**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**27683123**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**27683136**

**Explanation:** The removable media device is assigned elsewhere.

**Failing Item:**

- USER
- FI01105

---

**27683140**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

**27683141**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

**27683142**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

**27683143**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

**27683150**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

**27683151**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**27683200**

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

**27683203**

**Explanation:** Disk media format bad.

**Failing Item:**

- FI01105

---

**27683205**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

**27683215****Explanation:** Disk sector read error.**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.**Failing Item:**

- FI01105
- 

**27683250****Explanation:** Disk unit requires initialization before use.**Response:** Perform a D-IPL and work on errors found in the log.**Failing Item:**

- USER
- 

**27683300****Explanation:** Storage unit detected a media problem.**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**27683400****Explanation:** I/O processor card detected device error.**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**27683401****Explanation:** Device backplane problem.**Failing Item:**

- DEVBPLN
- 

**27683501****Explanation:** I/O processor Licensed Internal Code error.**Failing Item:**

- AJDGP01
  - IOP
- 

---

**27683600****Explanation:** System log entry only, no service action required.

---

**27683601****Explanation:** System log entry only, no service action required.

---

**27686070****Explanation:** A permanent I/O processor failure occurred.**Failing Item:**

- IOP
- 

**27686071****Explanation:** I/O processor Licensed Internal Code error.**Failing Item:**

- AJDGP01
- 

**27686072****Explanation:** I/O processor Licensed Internal Code error.**Failing Item:**

- AJDGP01
  - IOP
- 

**27686073****Explanation:** IPL device not ready.**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**27686075****Explanation:** I/O processor resource not available.**Failing Item:**

- AJDGP01
- 

**27686076****Explanation:** I/O processor card detected media error.**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

27686081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27686082

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27686083

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27686085

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

27686200

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

27686201

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01

---

27686602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

27688000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

27688002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

27688004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

27688005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

27688007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

**27688010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**27688011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**27688100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27688130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**27688131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**27688132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**27688133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**27688140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**27688141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**27688145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**27688146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**27688150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**27688151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

27688155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

## 27688156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

## 27688157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

## 27688200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

## 27688300

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

27688301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

## 27688400

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

## 27689000

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

## 27689001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

## 27689002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

## 27689008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
-

---

**27689009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**27689010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**27689011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**27689012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**27689013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**27689020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**27689021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**27689022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27689023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27689024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27689025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**27689026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27689027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**27689028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

27689029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2768902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27689030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

27689031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27689040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

27689041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27689050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27689051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27689052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

27689053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27689054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27689081

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA



---

**27689082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27689090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**27689091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**27689092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**2768B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2768B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2768B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2768B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2768B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2768B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2768B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2768B3B8**

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2768B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 2768B3E0 • 2768FF6D

- IOP

---

### 2768B3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2768B3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2768B410

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2768B411

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2768B412

**Explanation:** Tape/CD or disk bus interface error occurred.

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

### 2768B935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

### 2768BE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

### 2768FF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2768FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2771) Reference codes

---

### 2771B904

**Explanation:** I/O Adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00719
- 

### 2771B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
  - FI00718
- 

### 2771B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 2771B941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
- 

### 2771B942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01



---

## (2772) Reference codes

---

### 2772B904

**Explanation:** I/O Adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00719
- 

### 2772B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
  - FI00718
- 

### 2772B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 2772B941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
- 

### 2772B942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01



---

## (2780) Reference codes

---

### 27801310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 27803006

**Explanation:** System bus error.

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

### 27803020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 27803021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 27803022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

### 27803023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 27803100

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 27803101

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 27803102

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 27803103 • 27803151

- FI01140
- DEVBPLN

---

### 27803103

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 27803120

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27803121

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27803122

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27803123

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27803140

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

### 27803141

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

### 27803142

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

### 27803143

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

### 27803150

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 27803151

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS



---

**27803400**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**27803401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**27803501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27803600**

**Explanation:** System log entry only, no service action required.

---

**27803601**

**Explanation:** System log entry only, no service action required.

---

**27808008**

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

---

**27808009**

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

**27808012**

**Explanation:** Attached read cache devices exceed capacity supported by IOA.

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

**27808100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27808130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**27808131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**27808132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**27808133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27808140

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

27808141

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

27808145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

27808146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

27808150

**Explanation:** A permanent I/O processor failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

27808151

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- STORIOA

---

27808155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

27808156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

27808157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

27808200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27809000

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
-

---

27809001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

## 27809002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

## 27809008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
- 

## 27809009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

## 27809010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

## 27809011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

## 27809020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

27809021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

## 27809022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27809023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27809024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27809025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

## 27809026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 27809027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

## 27809028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

## 27809029 • 27809053

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
- 

### 27809029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 2780902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

### 27809030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21
- 

### 27809031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

### 27809032

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
  - IOPIP21
- 

### 27809040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

### 27809041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01
- 

### 27809042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

### 27809050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30
- 

### 27809051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

### 27809052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 27809053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**27809054**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**27809071**

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

**27809072**

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

**27809073**

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

**27809081**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

**27809082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

**27809090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**27809091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**27809092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

**27809093**

**Explanation:** Read cache device not in correct format.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

**2780B934**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

**2780FF3D**

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA

## 2780FF6D

- ANYBRDG

---

## 2780FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2782) Reference codes

---

### 27821310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 27823006

**Explanation:** System bus error.

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

### 27823020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 27823021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 27823022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

### 27823023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 27823100

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 27823101

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 27823102

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 27823103 • 27823151

- FI01140
- DEVBPLN

---

### 27823103

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 27823120

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27823121

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27823122

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27823123

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 27823140

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

### 27823141

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

### 27823142

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

### 27823143

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

### 27823150

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 27823151

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS



---

**27823400**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**27823401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**27823501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27823600**

**Explanation:** System log entry only, no service action required.

---

**27823601**

**Explanation:** System log entry only, no service action required.

---

**27828008**

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

---

**27828009**

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

**27828012**

**Explanation:** Attached read cache devices exceed capacity supported by IOA.

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

**27828100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**27828130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**27828131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**27828132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**27828133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27828140

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

27828141

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

27828145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

27828146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

27828150

**Explanation:** A permanent I/O processor failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

27828151

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- STORIOA

---

27828155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

27828156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

27828157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

27828200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

27829000

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
-

---

**27829001**

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

**27829002**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27829008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
- 

**27829009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**27829010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**27829011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**27829020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

**27829021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**27829022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27829023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27829024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27829025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**27829026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**27829027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**27829028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

27829029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2782902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27829030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

27829031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27829032

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

27829040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

27829041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27829042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

27829050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27829051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27829052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27829053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**27829054**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**27829071**

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

**27829072**

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

**27829073**

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

**27829081**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

**27829082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

**27829090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**27829091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**27829092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

**27829093**

**Explanation:** Read cache device not in correct format.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

**2782B934**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

**2782FF3D**

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA

## 2782FF6D

- ANYBRDG

---

## 2782FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2787) Reference codes

---

### 27871310

**Explanation:** I/O processor or I/O adapter resource not available.

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 27873020

**Explanation:** I/O processor detected a configuration error.

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 27873100

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 27873120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 27873140

**Explanation:** I/O Processor detected that a port is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 27873200

**Explanation:** A disk device reported a failure.

**Failing Item:**

- FCDEV
  - FCIOA
  - IOP
  - OPT\_CLN
- 

### 27873400

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 278734FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

### 27878130

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 27878140

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 27878141

**Explanation:** IOA detected recoverable device error.

**Response:** No action required. This reference code is

logged for information only.

---

27878145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

27878146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FCDEV

---

27878150

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

27878151

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

27878155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

27878156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

27879091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27879092

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2787FF3D

**Explanation:** Recovered IOA error.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN



---

## (2793) Reference codes

---

### 2793A001

**Explanation:** Communications I/O adapter software error or failure configuring hardware.

**Failing Item:**

- NEXTLVL
- 

### 2793B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - AJDGP01
  - MA\_BRDG
- 

### 2793B941

**Explanation:** One of the ports on the IOA has failed.

**Failing Item:**

- FI00719
- AJDGP01



---

## (2805) Reference codes

---

### 2805A001

**Explanation:** Communications I/O adapter software error or failure configuring hardware.

**Failing Item:**

- NEXTLVL
- 

### 2805B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - AJDGP01
  - MA\_BRDG
- 

### 2805B941

**Explanation:** One of the ports on the IOA has failed.

**Failing Item:**

- FI00719
- AJDGP01



---

## (280D) Reference codes

---

### 280D1310

**Explanation:** I/O processor or I/O adapter resource not available.

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 280D3020

**Explanation:** I/O processor detected a configuration error.

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 280D3100

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 280D3120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 280D3140

**Explanation:** I/O Processor detected that a port is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 280D3200

**Explanation:** A disk device reported a failure.

**Failing Item:**

- FCDEV
  - FCIOA
  - IOP
  - OPT\_CLN
- 

### 280D3400

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 280D34FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

### 280D8130

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 280D8140

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 280D8141

**Explanation:** IOA detected recoverable device error.

**Response:** No action required. This reference code is

logged for information only.

---

**280D8145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

**280D8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FCDEV

---

**280D8150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

**280D8151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

**280D8155**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

**280D8156**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

**280D9091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**280D9092**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**280DFF3D**

**Explanation:** Recovered IOA error.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

## (280E) Reference codes

---

### 280E1310

**Explanation:** I/O processor or I/O adapter resource not available.

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 280E3020

**Explanation:** I/O processor detected a configuration error.

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 280E3100

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 280E3120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 280E3140

**Explanation:** I/O Processor detected that a port is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 280E3200

**Explanation:** A disk device reported a failure.

**Failing Item:**

- FCDEV
  - FCIOA
  - IOP
  - OPT\_CLN
- 

### 280E3400

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 280E34FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

### 280E8130

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 280E8140

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 280E8141

**Explanation:** IOA detected recoverable device error.

**Response:** No action required. This reference code is

logged for information only.

---

280E8145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

280E8146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FCDEV

---

280E8150

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

280E8151

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

280E8155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

280E8156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

280E9091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

280E9092

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

280EFF3D

**Explanation:** Recovered IOA error.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN



---

## (2838) Reference codes

---

### 2838B904

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00719
- 

### 2838B930

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00718
  - FI00719
- 

### 2838B931

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 2838B933

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- AJDGP01



---

## (283C) Reference codes

---

### 283C1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 283C1515

**Explanation:** A fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 283C1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 283C1525

**Explanation:** A fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 283C3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Failing Item:**

- DEVBPLN
  - STORIOA
- 

- FI01140
  - FI01106
- 

### 283C3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

### 283C7611

**Explanation:** A fatal error occurred on redundant fan 1.

**Failing Item:**

- DISKFAN
- 

### 283C7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

### 283C7621

**Explanation:** A fatal error occurred on redundant fan 2.

**Failing Item:**

- DISKFAN
- 

### 283C7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN
- 

### 283C7631

**Explanation:** A fatal error occurred on redundant fan 3.

**Failing Item:**

- DISKFAN
- 

### 283C7634

**Explanation:** A fatal error occurred on fan 3.

## 283C8401 • 283CFFF4

### Failing Item:

- DISKFAN
- 

### 283C8401

**Explanation:** Removable media power fault.

### Failing Item:

- DEVBPLN
- 

### 283C8404

**Explanation:** System log entry only, no service action required.

---

### 283CFFF4

**Explanation:** Device backplane problem.

### Failing Item:

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (283D) Reference codes

---

### 283D1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 283D1515

**Explanation:** A fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 283D1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 283D1525

**Explanation:** A fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 283D3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Failing Item:**

- DEVBPLN
  - STORIOA
- 

- FI01140
  - FI01106
- 

### 283D3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

### 283D7611

**Explanation:** A fatal error occurred on redundant fan 1.

**Failing Item:**

- DISKFAN
- 

### 283D7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

### 283D7621

**Explanation:** A fatal error occurred on redundant fan 2.

**Failing Item:**

- DISKFAN
- 

### 283D7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN
- 

### 283D7631

**Explanation:** A fatal error occurred on redundant fan 3.

**Failing Item:**

- DISKFAN
- 

### 283D7634

**Explanation:** A fatal error occurred on fan 3.

## 283D8401 • 283DFFF4

### Failing Item:

- DISKFAN
- 

### 283D8401

**Explanation:** Removable media power fault.

### Failing Item:

- DEVBPLN
- 

### 283D8404

**Explanation:** System log entry only, no service action required.

---

### 283DFFF4

**Explanation:** Device backplane problem.

### Failing Item:

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (2842) Reference codes

---

### 28420A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 28420A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 2842102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- FI01105
- 

### 28421306

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

### 28421307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 28421310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 28421317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 28422200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 28422201

**Explanation:** Removable media error during IPL.

**Failing Item:**

- USER
  - FI01105
- 

### 28422202

**Explanation:** Removable media error during IPL.

**Failing Item:**

- FI00022
  - FI01105
- 

### 28423000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 28423001 • 28423084

- FI01101
- IOP
- MA\_BRDG

---

### 28423001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 28423002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 28423006

**Explanation:** System bus error.

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 28423020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28423021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28423022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28423023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28423080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 28423081

**Explanation:** System log entry only, no service action required.

---

### 28423084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG



---

**28423087**

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**28423100**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**28423101**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**28423102**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**28423103**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**28423109**

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28423110**

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28423120**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**28423121**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**28423122**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**28423123**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**28423136**

**Explanation:** The removable media device is assigned elsewhere.

**Failing Item:**

- USER
- FI01105

---

**28423140**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

**28423141**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

**28423142**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

**28423143**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

**28423150**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

**28423151**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**28423200**

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

**28423203**

**Explanation:** Disk media format bad.

**Failing Item:**

- FI01105

---

**28423205**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

**28423215**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

**28423250**

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

**28423300**

**Explanation:** Storage unit detected a media problem.

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**28423400**

**Explanation:** I/O processor card detected device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**28423401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**28423501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

---

**28423600**

**Explanation:** System log entry only, no service action required.

---

**28423601**

**Explanation:** System log entry only, no service action required.

---

**28426070**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**28426071**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**28426072**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28426073**

**Explanation:** IPL device not ready.

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**28426075**

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
- 

**28426076**

**Explanation:** I/O processor card detected media error.

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

28426081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28426082

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28426083

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28426085

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

28426200

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

28426201

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01

---

28426602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

28428000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28428002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

28428004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

28428005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28428007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

**28428010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time.  
Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**28428011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time.  
Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**28428100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28428130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

**28428131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

**28428132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**28428133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**28428140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**28428141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**28428145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**28428146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**28428150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**28428151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

**28428155**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**28428156**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**28428157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

**28428200**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28428300**

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

**28428301**

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

**28428400**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**28429000**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**28429001**

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

**28429002**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28429008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
-

---

**28429009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**28429010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**28429011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**28429012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**28429013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**28429020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**28429021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**28429022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28429023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28429024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28429025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**28429026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28429027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**28429028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

28429029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2842902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

28429030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

28429031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

28429040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

28429041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

28429050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

28429051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

28429052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

28429053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

28429054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

28429081

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA



---

**28429082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28429090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28429091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28429092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**2842B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2842B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2842B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2842B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2842B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2842B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2842B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2842B3B8**

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2842B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 2842B3E0 • 2842FF6D

- IOP

---

### 2842B3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2842B3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2842B410

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2842B411

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2842B412

**Explanation:** Tape/CD or disk bus interface error occurred.

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

### 2842B935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

### 2842BE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

### 2842FF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2842FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2843) Reference codes

---

### 28430A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 28430A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 2843102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- FI01105
- 

### 28431306

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

### 28431307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 28431310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 28431317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 28432200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 28432201

**Explanation:** Removable media error during IPL.

**Failing Item:**

- USER
  - FI01105
- 

### 28432202

**Explanation:** Removable media error during IPL.

**Failing Item:**

- FI00022
  - FI01105
- 

### 28433000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 28433001 • 28433084

- FI01101
- IOP
- MA\_BRDG

---

### 28433001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 28433002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 28433006

**Explanation:** System bus error.

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 28433020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28433021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28433022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28433023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28433080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 28433081

**Explanation:** System log entry only, no service action required.

---

### 28433084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

**28433087**

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**28433100**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**28433101**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**28433102**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**28433103**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**28433109**

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28433110**

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28433120**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**28433121**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**28433122**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**28433123**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**28433136**

**Explanation:** The removable media device is assigned elsewhere.

**Failing Item:**

- USER
- FI01105

---

**28433140**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

**28433141**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

**28433142**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

**28433143**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

**28433150**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

**28433151**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**28433200**

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

**28433203**

**Explanation:** Disk media format bad.

**Failing Item:**

- FI01105

---

**28433205**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

**28433215**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

**28433250**

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

**28433300**

**Explanation:** Storage unit detected a media problem.

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**28433400**

**Explanation:** I/O processor card detected device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**28433401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**28433501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

---

**28433600**

**Explanation:** System log entry only, no service action required.

---

**28433601**

**Explanation:** System log entry only, no service action required.

---

**28436070**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**28436071**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**28436072**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28436073**

**Explanation:** IPL device not ready.

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**28436075**

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
- 

**28436076**

**Explanation:** I/O processor card detected media error.

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

28436081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28436082

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28436083

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28436085

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

28436200

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

28436201

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01

---

28436602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

28438000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28438002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

28438004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

28438005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28438007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA



---

**28438010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**28438011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**28438100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28438130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**28438131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**28438132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**28438133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**28438140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**28438141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**28438145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**28438146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**28438150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**28438151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

28438155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

## 28438156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

## 28438157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

## 28438200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

## 28438300

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

28438301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

## 28438400

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

## 28439000

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

## 28439001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

## 28439002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

## 28439008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
-

---

**28439009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**28439010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**28439011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**28439012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**28439013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**28439020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**28439021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**28439022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28439023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28439024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28439025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**28439026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28439027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**28439028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

28439029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2843902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

28439030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

28439031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

28439040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

28439041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

28439050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

28439051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

28439052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

28439053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

28439054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

28439081

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

---

**28439082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28439090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28439091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28439092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**2843B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2843B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2843B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2843B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2843B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2843B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2843B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2843B3B8**

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2843B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 2843B3E0 • 2843FF6D

- IOP

---

### 2843B3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2843B3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2843B410

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2843B411

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2843B412

**Explanation:** Tape/CD or disk bus interface error occurred.

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

### 2843B935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

### 2843BE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

### 2843FF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2843FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2844) Reference codes

---

### 28440A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 28440A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 2844102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- FI01105
- 

### 28441306

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

### 28441307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 28441310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 28441317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 28442200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 28442201

**Explanation:** Removable media error during IPL.

**Failing Item:**

- USER
  - FI01105
- 

### 28442202

**Explanation:** Removable media error during IPL.

**Failing Item:**

- FI00022
  - FI01105
- 

### 28443000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 28443001 • 28443084

- FI01101
- IOP
- MA\_BRDG

---

### 28443001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 28443002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 28443006

**Explanation:** System bus error.

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 28443020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28443021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28443022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28443023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28443080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 28443081

**Explanation:** System log entry only, no service action required.

---

### 28443084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG



---

**28443087**

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**28443100**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**28443101**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**28443102**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**28443103**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**28443109**

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28443110**

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28443120**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**28443121**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**28443122**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**28443123**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**28443136**

**Explanation:** The removable media device is assigned elsewhere.

**Failing Item:**

- USER
- FI01105

---

**28443140**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

**28443141**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

**28443142**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

**28443143**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

**28443150**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

**28443151**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**28443200**

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

**28443203**

**Explanation:** Disk media format bad.

**Failing Item:**

- FI01105

---

**28443205**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

**28443215**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

**28443250**

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

**28443300**

**Explanation:** Storage unit detected a media problem.

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**28443400**

**Explanation:** I/O processor card detected device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**28443401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**28443501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

---

**28443600**

**Explanation:** System log entry only, no service action required.

---

**28443601**

**Explanation:** System log entry only, no service action required.

---

**28446070**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**28446071**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**28446072**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28446073**

**Explanation:** IPL device not ready.

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**28446075**

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
- 

**28446076**

**Explanation:** I/O processor card detected media error.

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

28446081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28446082

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28446083

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28446085

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

28446200

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

28446201

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01

---

28446602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

28448000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28448002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

28448004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

28448005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28448007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

**28448010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**28448011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**28448100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28448130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**28448131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**28448132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**28448133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**28448140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**28448141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**28448145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**28448146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**28448150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**28448151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

**28448155**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**28448156**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**28448157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

**28448200**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28448300**

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

**28448301**

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

**28448400**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**28449000**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**28449001**

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

**28449002**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28449008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
-

---

**28449009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**28449010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**28449011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**28449012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**28449013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**28449020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**28449021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**28449022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28449023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28449024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28449025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**28449026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**28449027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**28449028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

28449029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

## 2844902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

## 28449030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21
- 

## 28449031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

## 28449040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

## 28449041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01
- 

## 28449050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

28449051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

## 28449052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28
- 

## 28449053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

## 28449054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

## 28449081

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA



---

**28449082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28449090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28449091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28449092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**2844B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2844B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2844B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2844B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2844B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2844B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2844B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2844B3B8**

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2844B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 2844B3E0 • 2844FF6D

- IOP

---

### 2844B3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2844B3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 2844B410

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2844B411

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 2844B412

**Explanation:** Tape/CD or disk bus interface error occurred.

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

### 2844B935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

### 2844BE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

### 2844FF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2844FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2847) Reference codes

---

### 28470A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 28470A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 28471307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 28471310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 28473000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FCIOA
  - IOP
  - MA\_BRDG
  - OPT\_CLN
- 

### 28473001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
  - AJDGP01
- 

### 28473002

**Explanation:** Addressed device is not responding.

**Failing Item:**

- FCPORT
  - FCDEV
  - FCIOA
  - FCINTF
  - OPT\_CLN
- 

### 28473006

**Explanation:** System bus error.

**Failing Item:**

- IOP
  - ANYBUS
  - FCIOA
  - OPT\_CLN
- 

### 28473080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 28473081

**Explanation:** System log entry only, no service action required.

---

### 28473084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FCIOA
- MA\_BRDG

## 28473087 • 28476081

- OPT\_CLN

---

### 28473087

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
- AJDG301
- FCIOA
- OPT\_CLN

---

### 28473100

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- FCINTF
- ANYFC
- FCIOA
- OPT\_CLN

---

### 28473109

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- FCDEV
- FCINTF
- FCIOA
- OPT\_CLN

---

### 28473120

**Explanation:** I/O processor detected a port failure.

**Failing Item:**

- FCPORT
- FCIOA
- FCDEV
- OPT\_CLN

---

### 28473200

**Explanation:** A disk device reported a failure.

**Failing Item:**

- FCDEV
- FCIOA
- IOP
- OPT\_CLN

---

### 28473501

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

### 28476070

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP

---

### 28476071

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 28476072

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

### 28476075

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01

---

### 28476076

**Explanation:** I/O processor card detected media error.

**Failing Item:**

- AJDG301
- AJDGP01
- FCDEV

---

### 28476081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

**28476082**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28476083**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28476085**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
  - MA\_BRDG
- 

**28476200**

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

**28476201**

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01
- 

**28478100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28478150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FCIOA

- ANYBRDG
  - OPT\_CLN
- 

**28478155**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - FCIOA
  - OPT\_CLN
- 

**28478156**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - FCIOA
  - OPT\_CLN
- 

**28478200**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28478300**

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- FCIOA
  - IOP
  - AJDGP01
  - OPT\_CLN
- 

**28478301**

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FCIOA
- AJDGP01
- IOP
- OPT\_CLN

## 2847B3B1 • 2847BE00

---

### 2847B3B1

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

### 2847B3B2

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

### 2847B3B3

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

### 2847B3B4

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

### 2847B3B5

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

### 2847B3B6

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

### 2847B3B7

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

### 2847B3B8

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG

- IOP
- 

### 2847B3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
  - MA\_BRDG
- 

### 2847B3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
  - MA\_BRDG
- 

### 2847B935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FCIOA
  - AJDGP01
  - IOP
  - MA\_BRDG
  - OPT\_CLN
- 

### 2847BE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FCIOA
- MA\_BRDG
- OPT\_CLN

---

## (2849) Reference codes

---

### 2849B904

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00719
- 

### 2849B930

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00718
  - FI00719
- 

### 2849B931

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 2849B933

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- AJDGP01





---

## (284B) Reference codes

---

### 284B0A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 284B0A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 284B102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- FI01105
- 

### 284B1306

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

### 284B1307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 284B1310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 284B1317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 284B2200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 284B2201

**Explanation:** Removable media error during IPL.

**Failing Item:**

- USER
  - FI01105
- 

### 284B2202

**Explanation:** Removable media error during IPL.

**Failing Item:**

- FI00022
  - FI01105
- 

### 284B3000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 284B3001 • 284B3084

- FI01101
- IOP
- MA\_BRDG

---

### 284B3001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 284B3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 284B3006

**Explanation:** System bus error.

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 284B3020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 284B3021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 284B3022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 284B3023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 284B3080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 284B3081

**Explanation:** System log entry only, no service action required.

---

### 284B3084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

**284B3087**

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**284B3100**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**284B3101**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**284B3102**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**284B3103**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**284B3109**

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**284B3110**

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**284B3120**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**284B3121**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**284B3122**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**284B3123**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**284B3136**

**Explanation:** The removable media device is assigned elsewhere.

**Failing Item:**

- USER
- FI01105

---

**284B3140**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

**284B3141**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

**284B3142**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

**284B3143**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

**284B3150**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

**284B3151**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**284B3200**

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

**284B3203**

**Explanation:** Disk media format bad.

**Failing Item:**

- FI01105

---

**284B3205**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

**284B3215**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

**284B3250**

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

**284B3300**

**Explanation:** Storage unit detected a media problem.

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**284B3400**

**Explanation:** I/O processor card detected device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**284B3401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**284B3501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

---

**284B3600**

**Explanation:** System log entry only, no service action required.

---

**284B3601**

**Explanation:** System log entry only, no service action required.

---

**284B6070**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**284B6071**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**284B6072**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**284B6073**

**Explanation:** IPL device not ready.

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**284B6075**

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
- 

**284B6076**

**Explanation:** I/O processor card detected media error.

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

284B6081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

284B6082

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

284B6083

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

284B6085

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

284B6200

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

284B6201

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01

---

284B6602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

284B8000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

284B8002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

284B8004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

284B8005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

284B8007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

**284B8010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**284B8011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**284B8100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**284B8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**284B8131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**284B8132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**284B8133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**284B8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**284B8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**284B8145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**284B8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**284B8150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**284B8151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

**284B8155**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**284B8156**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**284B8157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

**284B8200**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**284B8300**

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

**284B8301**

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

**284B8400**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**284B9000**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**284B9001**

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

**284B9002**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**284B9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
-



---

**284B9009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**284B9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**284B9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**284B9012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**284B9013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**284B9020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**284B9021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**284B9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**284B9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**284B9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**284B9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**284B9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**284B9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**284B9028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

284B9029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

284B902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

284B9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

284B9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

284B9040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

284B9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

284B9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

284B9051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

284B9052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

284B9053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

284B9054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

284B9081

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

---

**284B9082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**284B9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**284B9091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**284B9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**284BB3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**284BB3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**284BB3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**284BB3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**284BB3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**284BB3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**284BB3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**284BB3B8**

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**284BB3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 284BB3E0 • 284BFF6D

- IOP

---

### 284BB3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 284BB3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 284BB410

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 284BB411

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 284BB412

**Explanation:** Tape/CD or disk bus interface error occurred.

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

### 284BB935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

### 284BBE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

### 284BFF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 284BFF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (2875) Reference codes

---

### 28751511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 28751515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 28751521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 28751525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 28753002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

### 28753109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

### 28757614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

### 28757624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 28757634 • 2875FFF4

---

28757634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

28757644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

28758404

**Explanation:** System log entry only, no service action required.

---

2875FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2876) Reference codes

---

### 28761511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28761515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28761521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28761525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28763002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 28763109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 28767614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 28767624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 28767634 • 2876FFF4

---

28767634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

28767644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

28768404

**Explanation:** System log entry only, no service action required.

---

2876FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



---

## (2890) Reference codes

---

### 28900A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDG301
  - AJDGP01
- 

### 28900A22

**Explanation:** Adapter card storage error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 28901307

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 28901310

**Explanation:** I/O adapter resource not available.

**Response:** The INS processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

**Failing Item:**

- IOP
  - AJDGP01
- 

### 28903000

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
  - AJDGP01
- 

### 28903001

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- IOP
  - AJDGP01
- 

### 28903006

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
  - ANYBUS
- 

### 28903080

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- 

### 28903081

**Explanation:** I/O adapter error; logged only.

### 28903084

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
  - IOP
  - IOA
  - MA\_BRDG
- 

### 28903087

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
  - NTUSER
  - IOA
- 

### 28906070

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
- 

### 28906071

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- 

**28906072**

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28906075**

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
- 

**28906083**

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28906085**

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - IOP
  - MA\_BRDG
- 

**28906201**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - AJDGP01
- 

**28906202**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

---

**28906210**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**28906221**

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDG301
- 

**28906222**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28906223**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - AJDGP01
- 

**28906224**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- DISKIMG
  - AJDGP01
  - IOP
  - MEMORY
- 

**28906225**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
- 

**28906226**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- AJDG301
-

- AS4NTDD

---

**28906227**

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTUSER
- AJDGP01
- IOP

---

**28906228**

**Explanation:** Windows initiated a warm boot.

**Failing Item:**

- AJDGP01
- IOP

---

**28906501**

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- IOP
- AJDGP01

---

**28906502**

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- AJDGP01
- IOP

---

**28906530**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

**28906531**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- AJDGP01

---

**28906532**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS

- AJDGP01
- AS4NTDD

---

**28906533**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

**28906534**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- AJDGP01
- NTOPSYS

---

**28906535**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTDEVDR
- AJDGP01

---

**28906538**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

**28906539**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- AJDGP01

---

**2890653A**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
- AJDGP01
- AS4NTDD

---

2890653B

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

2890653C

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- AJDGP01
- NTOPSYS

---

2890653D

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTDEVDR
- AJDGP01

---

2890653F

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTDEVDR
- NTOPSYS
- AJDG301

---

28906540

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AJDGP01
- AJDG301

---

28906541

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- AJDGP01

---

28906542

**Explanation:** Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- AJDGP01

---

28906543

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- NTOPSYS
- NTVSCSI

---

28906580

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- DISKIMG
- IOP
- AJDGP01

---

289065B0

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTLANDD
- NTOPSYS

---

289065B1

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTLANDD
- NTOPSYS
- AJDG301

---

289065B2

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTDEVDR
- NTOPSYS
- AJDG301

---

28908301

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP

---

**2890B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2890B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2890B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2890B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2890B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2890B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2890B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2890B3B8**

**Explanation:** Multi-adapter bridge error detected.

**Failing Item:**

- MA\_BRDG

- IOP
- 

**2890B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2890B3E0**

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
  - MA\_BRDG
- 

**2890B3E1**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
- 

**2890B4B0**

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOP
- 

**2890B4B1**

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOP
  - MEMORY
- 

**2890B4B2**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOP
- 

**2890B4B3**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOA
- 

**2890B4B4**

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOP

## 2890B4B5 • 2890BE00

- IOA
- MEMORY

---

### 2890B4B5

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP

---

### 2890B4B8

**Explanation:** Adapter card storage error.

**Failing Item:**

- MEMORY
- IOP

---

### 2890B4B9

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP

---

### 2890B4BC

**Explanation:** I/O adapter error; logged only.

**Failing Item:**

- IOP
- IOA

---

### 2890B4BE

**Explanation:** Adapter card storage error.

**Failing Item:**

- MEMORY
- IOP

---

### 2890B904

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- IOP

---

### 2890B935

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOA
- AJDGP01
- IOP

- MA\_BRDG

---

### 2890B960

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP
- IOA

---

### 2890B961

**Explanation:** An error was detected on one of the attached adapter cards.

**Failing Item:**

- IOA
- IOP
- AJDGP01

---

### 2890BE00

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP
- IOA
- MA\_BRDG

---

## (2892) Reference codes

---

### 28920A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDG301
  - AJDGP01
- 

### 28920A22

**Explanation:** Adapter card storage error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 28921307

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 28921310

**Explanation:** I/O adapter resource not available.

**Response:** The INS processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

**Failing Item:**

- IOP
  - AJDGP01
- 

### 28921317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates to replace hardware, then replace hardware. If the Failing Item indicates SVCDOCS, then do NOT replace hardware. This is a recoverable error. If the resource is not operable, use Hardware Service Manager to re-IPL the resource. Perform the VRYCFG command to Vary On the NWSD.

**Failing Item:**

- SVCDOCS
- 

### 28923000

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
  - AJDGP01
- 

### 28923001

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- IOP
  - AJDGP01
- 

### 28923006

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
  - ANYBUS
- 

### 28923080

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- 

### 28923081

**Explanation:** I/O adapter error; logged only.

### 28923084

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
  - IOP
  - IOA
  - MA\_BRDG
- 

### 28923087

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
- AJDG301
- NTUSER
- IOA

---

28926070

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP

---

28926071

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01

---

28926072

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOP

---

28926075

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01

---

28926083

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOP

---

28926085

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

28926201

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- AJDGP01

---

28926202

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

28926204

**Explanation:** I/O adapter failure due to a thermal condition.

**Failing Item:**

- IOP

---

28926210

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

28926221

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDG301

---

28926222

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- IOP

---

28926223

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- AJDGP01



---

**28926224**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- DISKIMG
  - AJDGP01
  - IOP
  - MEMORY
- 

**28926225**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
- 

**28926226**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- AJDG301
  - AS4NTDD
- 

**28926227**

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTUSER
  - AJDGP01
  - IOP
- 

**28926228**

**Explanation:** Windows initiated a warm boot.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28926501**

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- IOP
  - AJDGP01
- 

**28926502**

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- AJDGP01
  - IOP
- 

**28926530**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - NTOPSYS
- 

**28926531**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - AS4NTDD
  - NTOPSYS
  - AJDGP01
- 

**28926532**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
  - AJDGP01
  - AS4NTDD
- 

**28926533**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTOPSYS
  - AS4NTDD
- 

**28926534**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
  - AJDGP01
  - NTOPSYS
- 

**28926535**

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
-

## 28926538 • 289265B0

- NTDEVDR
- AJDGP01

---

### 28926538

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

### 28926539

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- AJDGP01

---

### 2892653A

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
- AJDGP01
- AS4NTDD

---

### 2892653B

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

### 2892653C

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- AJDGP01
- NTOPSYS

---

### 2892653D

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTDEVDR
- AJDGP01

---

### 2892653F

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTDEVDR
- NTOPSYS
- AJDG301

---

### 28926540

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AJDGP01
- AJDG301

---

### 28926541

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 28926542

**Explanation:** Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- AJDGP01

---

### 28926543

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- NTOPSYS
- NTVSCSI

---

### 28926580

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- DISKIMG
- IOP
- AJDGP01

---

### 289265B0

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTLANDD
- NTOPSYS

---

**289265B1**

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTLANDD
  - NTOPSYS
  - AJDG301
- 

**289265B2**

**Explanation:** A HostLAN error was detected.

**Failing Item:**

- NTDEVDR
  - NTOPSYS
  - AJDG301
- 

**28928301**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
  - IOP
- 

**2892B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2892B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2892B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2892B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

---

**2892B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2892B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2892B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2892B3B8**

**Explanation:** Multi-adapter bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2892B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**2892B3E0**

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
  - MA\_BRDG
- 

**2892B3E1**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
-

---

2892B4B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOP
- 

2892B4B1

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOP
  - MEMORY
- 

2892B4B2

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOP
- 

2892B4B3

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOA
- 

2892B4B4

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOP
  - IOA
  - MEMORY
- 

2892B4B5

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
  - IOP
- 

2892B4B8

**Explanation:** Adapter card storage error.

**Failing Item:**

- MEMORY
  - IOP
- 

2892B4B9

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
- 

---

2892B4BC

**Explanation:** I/O adapter error; logged only.

**Failing Item:**

- IOP
  - IOA
- 

2892B4BE

**Explanation:** Adapter card storage error.

**Failing Item:**

- MEMORY
  - IOP
- 

2892B904

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - IOP
- 

2892B935

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOA
  - AJDGP01
  - IOP
  - MA\_BRDG
- 

2892B960

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
  - IOA
- 

2892B961

**Explanation:** An error was detected on one of the attached adapter cards.

**Failing Item:**

- IOA
  - IOP
  - AJDGP01
-

---

**2892BE00**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP
- IOA
- MA\_BRDG



---

## (28A6) Reference codes

---

### 28A61511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28A61515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28A61521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28A61525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28A63002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 28A63109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 28A67614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 28A67624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 28A67634 • 28A6FFF4

---

### 28A67634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 28A67644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 28A68404

**Explanation:** System log entry only, no service action required.

---

### 28A6FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



---

## (28A8) Reference codes

---

### 28A81511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28A81515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28A81521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28A81525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 28A83002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 28A83109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 28A87614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 28A87624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 28A87634 • 28A8FFF4

---

### 28A87634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 28A87644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 28A88404

**Explanation:** System log entry only, no service action required.

---

### 28A8FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (28B9) Reference codes

---

### 28B91511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28B91515

**Explanation:** A fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28B91521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28B91525

**Explanation:** A fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28B93002

**Explanation:** Addressed device backplane failed to respond to selection.

**Failing Item:**

- DEVBPLN
  - STORIOA
- 

- FI01140
  - FI01106
- 

### 28B93109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

### 28B97611

**Explanation:** A fatal error occurred on redundant fan 1.

**Failing Item:**

- DISKFAN
- 

### 28B97614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

### 28B97621

**Explanation:** A fatal error occurred on redundant fan 2.

**Failing Item:**

- DISKFAN
- 

### 28B97624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN
- 

### 28B97631

**Explanation:** A fatal error occurred on redundant fan 3.

**Failing Item:**

- DISKFAN
- 

### 28B97634

**Explanation:** A fatal error occurred on fan 3.

## 28B98401 • 28B9FFF4

**Failing Item:**

- DISKFAN
- 

### 28B98401

**Explanation:** Removable media power fault.

**Failing Item:**

- DEVBPLN
- 

### 28B98404

**Explanation:** System log entry only, no service action required.

---

### 28B9FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (28CB) Reference codes

---

### 28CB1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28CB1515

**Explanation:** A fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28CB1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28CB1525

**Explanation:** A fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28CB3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Failing Item:**

- DEVBPLN
  - STORIOA
- 

- FI01140
  - FI01106
- 

### 28CB3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

### 28CB7611

**Explanation:** A fatal error occurred on redundant fan 1.

**Failing Item:**

- DISKFAN
- 

### 28CB7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

### 28CB7621

**Explanation:** A fatal error occurred on redundant fan 2.

**Failing Item:**

- DISKFAN
- 

### 28CB7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN
- 

### 28CB7631

**Explanation:** A fatal error occurred on redundant fan 3.

**Failing Item:**

- DISKFAN
- 

### 28CB7634

**Explanation:** A fatal error occurred on fan 3.

## 28CB8401 • 28CBFFF4

**Failing Item:**

- DISKFAN
- 

### 28CB8401

**Explanation:** Removable media power fault.

**Failing Item:**

- DEVBPLN
- 

### 28CB8404

**Explanation:** System log entry only, no service action required.

---

### 28CBFFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (28CC) Reference codes

---

### 28CC1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28CC1515

**Explanation:** A fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28CC1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28CC1525

**Explanation:** A fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 28CC3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Failing Item:**

- DEVBPLN
  - STORIOA
- 

- FI01140
  - FI01106
- 

### 28CC3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

### 28CC7611

**Explanation:** A fatal error occurred on redundant fan 1.

**Failing Item:**

- DISKFAN
- 

### 28CC7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

### 28CC7621

**Explanation:** A fatal error occurred on redundant fan 2.

**Failing Item:**

- DISKFAN
- 

### 28CC7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN
- 

### 28CC7631

**Explanation:** A fatal error occurred on redundant fan 3.

**Failing Item:**

- DISKFAN
- 

### 28CC7634

**Explanation:** A fatal error occurred on fan 3.

## 28CC8401 • 28CCFFF4

**Failing Item:**

- DISKFAN
- 

### 28CC8401

**Explanation:** Removable media power fault.

**Failing Item:**

- DEVBPLN
- 

### 28CC8404

**Explanation:** System log entry only, no service action required.

---

### 28CCFFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106



---

## (293C) Reference codes

---

### 293C1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 293C1515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 293C1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 293C1525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 293C3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 293C3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 293C7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 293C7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 293C7634 • 293CFFF4

---

### 293C7634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 293C7644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 293C8404

**Explanation:** System log entry only, no service action required.

---

### 293CFFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (293D) Reference codes

---

### 293D1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 293D1515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 293D1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 293D1525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 293D3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 293D3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 293D7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 293D7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 293D7634 • 293DFFF4

---

### 293D7634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 293D7644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 293D8404

**Explanation:** System log entry only, no service action required.

---

### 293DFFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (297D) Reference codes

---

### 297D1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 297D1515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 297D1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 297D1525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 297D3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 297D3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 297D7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 297D7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 297D7634 • 297DFFF4

---

### 297D7634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 297D7644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 297D8404

**Explanation:** System log entry only, no service action required.

---

### 297DFFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2A39) Reference codes

---

### 2A391511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2A391515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2A391521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2A391525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2A393002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2A393109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2A397614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 2A397624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 2A397634 • 2A39FFF4

---

### 2A397634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 2A397644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 2A398404

**Explanation:** System log entry only, no service action required.

---

### 2A39FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



---

## (2B4C) Reference codes

---

### 2B4C1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 2B4C3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 2B4C3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP4150
- 

### 2B4C3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP4150
- 

### 2B4C3140

**Explanation:** System log entry only. No service action required.

---

### 2B4C3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 2B4C3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP4150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 2B4C3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 2B4C3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 2B4C34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 2B4C3601

**Explanation:** System log entry only. No service action required.

---

### 2B4C4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 2B4C4020

## 2B4C4030 • 2B4C4160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 2B4C4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP4144

---

### 2B4C4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP4144

---

### 2B4C4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 2B4C4050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 2B4C4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP4153
- SASCABL
- SASEXP

---

### 2B4C4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 2B4C4070

**Explanation:** System log entry only. No service action required.

---

### 2B4C4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP4152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 2B4C4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP4152

---

### 2B4C4110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 2B4C4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 2B4C4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

**2B4C70DD**

**Explanation:** Disrupt device command completed successfully.

---

**2B4C8008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
  - FEATCRD
- 

**2B4C8009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT
- 

**2B4C8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**2B4C8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150
- 

**2B4C8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150
- 

**2B4C8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**2B4C8145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

**2B4C8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**2B4C8150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**2B4C8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**2B4C8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2B4C8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2B4C8157**

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

**2B4C8300**

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**2B4C8301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**2B4C8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**2B4C8400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**2B4C8404**

**Explanation:** System log entry only. No service action required.

---

**2B4C9000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**2B4C9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**2B4C9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**2B4C9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**2B4C9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**2B4C9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**2B4C9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2B4C9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2B4C9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2B4C9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**2B4C9024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**2B4C9025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

2B4C9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

2B4C9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

2B4C9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

2B4C9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

2B4C9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

2B4C9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

2B4C9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

2B4C9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

2B4C9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2B4C9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2B4C9050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131

---

2B4C9051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132

---

2B4C9052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

**2B4C9054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

**2B4C9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

**2B4C9070**

**Explanation:** System log entry only. No service action required.

**2B4C9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

**2B4C9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

**2B4C9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP4140

**2B4C9074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4141

**2B4C9075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP4149

**2B4C9076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP4147

**2B4C9081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**2B4C9082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**2B4C9083**

**Explanation:** System log entry only. No service action required.

**2B4C9084**

**Explanation:** System log entry only. No service action required.

**2B4C9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**2B4C9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 2B4C9092 • 2B4CFF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 2B4C9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 2B4C9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 2B4C9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 2B4CC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 2B4CC402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 2B4CFF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG



---

## (2B56) Reference codes

---

### 2B56A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 2B56B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (2B57) Reference codes

---

### 2B57A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 2B57B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (2B6C) Reference codes

---

### 2B6CB904

**Explanation:** I/O Adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
  - FI00719
- 

### 2B6CB934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
  - FI00718
- 

### 2B6CB940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 2B6CB941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
- 

### 2B6CB942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01



---

## (2B74) Reference codes

---

### 2B74A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 2B74B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301





---

## (2B93) Reference codes

---

### 2B933020

**Explanation:** Configuration error on port 0.

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 2B933021

**Explanation:** Configuration error on port 1.

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 2B933100

**Explanation:** Interface error on port 0.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 2B933101

**Explanation:** Interface error on port 1.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 2B933120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
- 

- FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 2B933121

**Explanation:** An open port was detected on port 1.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 2B933140

**Explanation:** Port 0 is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 2B933141

**Explanation:** Port 1 is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

### 2B933400

**Explanation:** Device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 2B933405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is

## 2B9334FF • 2B938302

logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 2B9334FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

### 2B934150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

### 2B938100

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 2B938130

**Explanation:** Recovered Fibre Channel interface error on port 0.

**Response:** No action required. This reference code is logged for information only.

---

### 2B938131

**Explanation:** Recovered Fibre Channel interface error on port 1.

**Response:** No action required. This reference code is logged for information only.

---

### 2B938150

**Explanation:** A permanent I/O adapter failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

### 2B938151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 2B938300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

### 2B938301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

### 2B938302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN

---

**2B939500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

**2B939903**

**Explanation:** Tape device information was logged.  
Informational event, no service required.

---

**2B93A001**

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

**2B93B000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**2B93B402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**2B93B9B0**

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
  - AJDG301
- 

**2B93C000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**2B93C402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH



---

## (2B9B) Reference codes

---

### 2B9B3020

**Explanation:** Configuration error on port 0.

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 2B9B3021

**Explanation:** Configuration error on port 1.

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 2B9B3100

**Explanation:** Interface error on port 0.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 2B9B3101

**Explanation:** Interface error on port 1.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 2B9B3120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
- 

- FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 2B9B3121

**Explanation:** An open port was detected on port 1.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 2B9B3140

**Explanation:** Port 0 is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 2B9B3141

**Explanation:** Port 1 is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

### 2B9B3400

**Explanation:** Device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 2B9B3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is

## 2B9B34FF • 2B9B8302

logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 2B9B34FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

### 2B9B4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

### 2B9B8100

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 2B9B8130

**Explanation:** Recovered Fibre Channel interface error on port 0.

**Response:** No action required. This reference code is logged for information only.

---

### 2B9B8131

**Explanation:** Recovered Fibre Channel interface error on port 1.

**Response:** No action required. This reference code is logged for information only.

---

### 2B9B8150

**Explanation:** A permanent I/O adapter failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

### 2B9B8151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 2B9B8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

### 2B9B8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

### 2B9B8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN

---

**2B9B9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

**2B9B9903**

**Explanation:** Tape device information was logged.  
Informational event, no service required.

---

**2B9BB000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**2B9BB402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**2B9BC000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**2B9BC402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH





---

## (2BBE) Reference codes

---

### 2BBE1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BBE1515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BBE1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BBE1525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BBE3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2BBE3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2BBE7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 2BBE7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 2BBE7634 • 2BBEFFF4

---

### 2BBE7634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 2BBE7644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 2BBE8404

**Explanation:** System log entry only, no service action required.

---

### 2BBEFFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2BD6) Reference codes

---

### 2BD61511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BD61515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BD61521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BD61525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BD63002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2BD63109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2BD67614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 2BD67624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 2BD67634 • 2BD6FFF4

---

### 2BD67634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 2BD67644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 2BD68404

**Explanation:** System log entry only, no service action required.

---

### 2BD6FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2BD8) Reference codes

---

### 2BD81511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BD81515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BD81521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BD81525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BD83002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2BD83109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2BD87614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 2BD87624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 2BD87634 • 2BD8FFF4

---

### 2BD87634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 2BD87644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 2BD88404

**Explanation:** System log entry only, no service action required.

---

### 2BD8FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2BD9) Reference codes

---

### 2BD91310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 2BD93000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2BD93020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP4150

---

### 2BD93100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP4150

---

### 2BD93140

**Explanation:** System log entry only. No service action required.

---

### 2BD93202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 2BD93400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP4150
- FI02112
- STORIOA
- SASCABL

---

### 2BD93401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 2BD93405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 2BD934FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 2BD93601

**Explanation:** System log entry only. No service action required.

---

### 2BD94010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 2BD94020

## 2BD94030 • 2BD94160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 2BD94030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP4144

---

### 2BD94040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP4144

---

### 2BD94041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 2BD94050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 2BD94060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP4153
- SASCABL
- SASEXP

---

### 2BD94061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 2BD94070

**Explanation:** System log entry only. No service action required.

---

### 2BD94100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP4152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 2BD94101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP4152

---

### 2BD94110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 2BD94150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 2BD94160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA



---

**2BD970DD**

**Explanation:** Disrupt device command completed successfully.

---

**2BD98008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
  - FEATCRD
- 

**2BD98009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT
- 

**2BD98100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**2BD98130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150
- 

**2BD98140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150
- 

**2BD98141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**2BD98145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

**2BD98146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**2BD98150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**2BD98151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**2BD98155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**2BD98156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BD98157**

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

**2BD98300**

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**2BD98301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**2BD98302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**2BD98400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**2BD98404**

**Explanation:** System log entry only. No service action required.

---

**2BD99000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**2BD99001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**2BD99002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**2BD99008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**2BD99010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**2BD99011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**2BD99020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2BD99021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2BD99022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2BD99023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**2BD99024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**2BD99025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

2BD99026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

2BD99027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

2BD99028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

2BD99029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

2BD99030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

2BD99031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

2BD99032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

2BD99040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

2BD99041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BD99042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BD99050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131

---

2BD99051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132

---

2BD99052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

**2BD99054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

**2BD99055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

**2BD99070**

**Explanation:** System log entry only. No service action required.

**2BD99071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

**2BD99072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

**2BD99073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP4140

**2BD99074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4141

**2BD99075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP4149

**2BD99076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP4147

**2BD99081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**2BD99082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**2BD99083**

**Explanation:** System log entry only. No service action required.

**2BD99084**

**Explanation:** System log entry only. No service action required.

**2BD99090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**2BD99091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 2BD99092 • 2BD9FF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 2BD99092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 2BD99500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 2BD99903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 2BD9C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 2BD9C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 2BD9FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (2BE0) Reference codes

---

### 2BE01310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 2BE03000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2BE03020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP4150

---

### 2BE03100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP4150

---

### 2BE03140

**Explanation:** System log entry only. No service action required.

---

### 2BE03202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 2BE03400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP4150
- FI02112
- STORIOA
- SASCABL

---

### 2BE03401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 2BE03405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 2BE034FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 2BE03601

**Explanation:** System log entry only. No service action required.

---

### 2BE04010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 2BE04020

## 2BE04030 • 2BE04160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 2BE04030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP4144

---

### 2BE04040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP4144

---

### 2BE04041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 2BE04050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 2BE04060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP4153
- SASCABL
- SASEXP

---

### 2BE04061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 2BE04070

**Explanation:** System log entry only. No service action required.

---

### 2BE04100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP4152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 2BE04101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP4152

---

### 2BE04110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 2BE04150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 2BE04160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA



---

**2BE070DD**

**Explanation:** Disrupt device command completed successfully.

---

**2BE08008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**2BE08009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

**2BE08100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE08130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

---

**2BE08140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

---

**Failing Item:**

- SIP4150

---

**2BE08141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**2BE08145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

**2BE08146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**2BE08150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**2BE08151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE08155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE08156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE08157**

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

**2BE08300**

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**2BE08301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**2BE08302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**2BE08400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**2BE08404**

**Explanation:** System log entry only. No service action required.

---

**2BE09000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**2BE09001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**2BE09002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**2BE09008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**2BE09010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**2BE09011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**2BE09020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2BE09021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2BE09022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2BE09023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**2BE09024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**2BE09025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

2BE09026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

2BE09027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

2BE09028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

2BE09029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

2BE09030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

2BE09031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

2BE09032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

2BE09040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

2BE09041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

2BE09042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

2BE09050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

2BE09051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

2BE09052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

**2BE09054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

**2BE09055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

**2BE09070**

**Explanation:** System log entry only. No service action required.

**2BE09071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

**2BE09072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

**2BE09073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP4140

**2BE09074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4141

**2BE09075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP4149

**2BE09076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP4147

**2BE09081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**2BE09082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**2BE09083**

**Explanation:** System log entry only. No service action required.

**2BE09084**

**Explanation:** System log entry only. No service action required.

**2BE09090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**2BE09091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 2BE09092 • 2BE0FF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 2BE09092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 2BE09500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 2BE09903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 2BE0C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 2BE0C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 2BE0FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (2BE1) Reference codes

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### 2BE11310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 2BE13000

**Explanation:** A permanent failure occurred.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2BE13020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP4150

---

### 2BE13100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP4150

---

### 2BE13140

**Explanation:** System log entry only. No service action required.

---

### 2BE13202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 2BE13400

**Explanation:** Unknown resource error.

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.
3. The Battery charger and carrier card.

## 2BE13401 • 2BE14060

4. See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4150
- FI02112
- STORIOA
- SASCABL

---

### 2BE13401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 2BE13405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 2BE134FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 2BE13601

**Explanation:** System log entry only. No service action required.

---

### 2BE14010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 2BE14020

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 2BE14030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP4144

---

### 2BE14040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP4144

---

### 2BE14041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 2BE14050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 2BE14060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**



- SIP4153
- SASCABL
- SASEXP

---

**2BE14061**

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**2BE14070**

**Explanation:** System log entry only. No service action required.

---

**2BE14100**

**Explanation:** Device bus fabric error.

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.
3. The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

**2BE14101**

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP4152

---

**2BE14110**

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

**2BE14150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

2BE14160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN

- STORIOA

---

2BE170DD

**Explanation:** Disrupt device command completed successfully.

---

2BE18008

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

**2BE18009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

**2BE18100**

**Explanation:** Licensed Internal Code error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

**2BE18130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

**2BE18140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

**2BE18141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

**2BE18145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

**2BE18146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**2BE18150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**2BE18151**

**Explanation:** Licensed Internal Code error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE18155**

**Explanation:** A permanent failure occurred.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE18156**

**Explanation:** A permanent failure occurred.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

**2BE18157**

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

**2BE18300**

**Explanation:** IOA hardware error or PCI bus error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

## 2BE18301

**Explanation:** Not valid condition in Licensed Internal Code.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

## 2BE18302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.

## 2BE18400 • 2BE19002

- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

### 2BE18400

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH

---

### 2BE18404

**Explanation:** System log entry only. No service action required.

---

### 2BE19000

**Explanation:** Device error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for

embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

---

### 2BE19001

**Explanation:** Device configuration error.

### Failing Item:

- NEXTLVL

---

### 2BE19002

**Explanation:** Device error.

### Failing Item:

- NEXTLVL



---

**2BE19008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**2BE19010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

**2BE19011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**2BE19020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2BE19021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2BE19022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**2BE19023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**2BE19024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**2BE19025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

**2BE19026**

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

**2BE19027**

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

**2BE19028**

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

**2BE19029**

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
-

---

2BE19030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

2BE19031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

2BE19032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

2BE19040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

2BE19041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BE19042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BE19050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131

---

2BE19051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132

---

2BE19052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

2BE19054

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

---

2BE19055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

2BE19070

**Explanation:** System log entry only. No service action required.

---

2BE19071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

2BE19072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

---

**2BE19073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP4140

---

**2BE19074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4141

---

**2BE19075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP4149

---

**2BE19076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP4147

---

**2BE19081**

**Explanation:** Device error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

**2BE19082**

**Explanation:** Device error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

## 2BE19083 • 2BE1FF3D

- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

---

### 2BE19083

**Explanation:** System log entry only. No service action required.

---

### 2BE19084

**Explanation:** System log entry only. No service action required.

---

### 2BE19090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

---

### 2BE19091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual

I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

---

### 2BE19092

**Explanation:** Disk unit requires initialization before use.

### Failing Item:

- SIP3134

---

### 2BE19500

**Explanation:** Internal program error in driver code.

### Failing Item:

- PTFSRCH

---

### 2BE19903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 2BE1C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 2BE1C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

### Failing Item:

- PTFSRCH

---

### 2BE1FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



---

## (2BF3) Reference codes

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### 2BF3A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 2BF3B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301





---

## (2BF4) Reference codes

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### 2BF4A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 2BF4B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (2C4C) Reference codes

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### 2C4CA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 2C4CB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (2C4D) Reference codes

---

### 2C4DA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 2C4DB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (3494) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the 3494 Library Manager console for error indications. Refer to the 3494 service information to resolve any error indications.
3. Attempt the failing operation again.
4. Does the operation complete successfully?

**Yes:** The problem has been corrected. **This ends the procedure.**

**No:** Look at the 4 rightmost characters of the Data display for Function 11, which represents the unit reference code. Find the unit reference code in the following table.

---

34942301

**Explanation:** Library device failure.

**Response:** Library attachment facility equipment check.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942303

**Explanation:** Library device failure.

**Response:** Device control unit and library manager Licensed Internal Code are incompatible.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942306

**Explanation:** Library device failure.

**Response:** Library vision failure.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942307

**Explanation:** Library device failure.

**Response:** Library vision failure.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942308

**Explanation:** Library device failure.

**Response:** Library manager equipment check.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY MANAGER HARDWARE PROBLEM".

**Failing Item:**

- LIB3494

---

34942309

**Explanation:** Library device failure.

**Response:** Library equipment check.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942310

## 34942311 • 34942321

**Explanation:** Library device requires operator intervention.

**Response:** Put the library into pause mode and perform the intervention indicated on the library manager console.

---

### 34942311

**Explanation:** Library device requires operator intervention.

**Response:** Put the library into pause mode and perform the intervention indicated on the library manager console.

---

### 34942319

**Explanation:** Tape unit failure.

**Response:** Use the tape unit service information to analyze the failure.

**Failing Item:**

- FI00851
- 

### 34942321

**Explanation:** Library enclosure environmental alert was detected.

**Response:** Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494



---

## (3580) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 35803000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 35803202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 35803400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 35809020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 35809100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 35809101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

### 35809102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

### 35809103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

### 35809104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

### 35809200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

### 35809201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**35809202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**35809210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**35809211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**35809220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**35809221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**35809300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**35809301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**35809302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**35809303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**35809304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**35809310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**35809320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**35809321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**35809350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**35809351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**35809355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**35809500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**35809501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**35809800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35809801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35809802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35809803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35809804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35809805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35809806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35809810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**35809899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**35809900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**35809901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**35809902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**35809903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**3580FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (3592) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 35923000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 35923202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 35923400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 35929020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 35929100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 35929101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

### 35929102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

### 35929103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

### 35929104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

### 35929200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

### 35929201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.



5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**35929202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**35929210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**35929211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**35929220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**35929221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**35929300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**35929301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**35929302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**35929303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**35929304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**35929310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**35929320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**35929321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**35929350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**35929351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**35929355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**35929500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**35929501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**35929800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35929801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35929802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35929803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35929804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35929805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35929806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**35929810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**35929899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**35929900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**35929901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**35929902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**35929903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**3592FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (4320) Reference codes

---

### 4320102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 43203002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

### 43203010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

### 43203020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

### 43203029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 43203100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43203109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43203110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

### 43203130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43203131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43207000

**Explanation:** Recoverable disk sector read error.

## 43207001 • 4320FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 43207001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 43207003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

### 43207004

**Explanation:** System log entry only. No service action required.

---

### 432070DD

**Explanation:** System log entry only, no service action required.

---

### 4320FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV

---

### 4320FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 4320FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 4320FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4320FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4320FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 4320FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4320FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**4320FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4320FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**4320FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





---

## (4322) Reference codes

---

### 4322102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 43223002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

### 43223010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

### 43223020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

### 43223029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 43223100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43223109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43223110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

### 43223130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43223131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43227000

**Explanation:** Recoverable disk sector read error.

## 43227001 • 4322FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 43227001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 43227003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

### 43227004

**Explanation:** System log entry only. No service action required.

---

### 432270DD

**Explanation:** System log entry only, no service action required.

---

### 4322FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV

---

### 4322FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 4322FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 4322FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4322FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4322FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 4322FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4322FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**4322FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4322FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**4322FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4323) Reference codes

---

### 4323102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 43233002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

### 43233010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

### 43233020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

### 43233029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 43233100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43233109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43233110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

### 43233130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43233131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43237000

**Explanation:** Recoverable disk sector read error.

## 43237001 • 4323FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 43237001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 43237003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

### 43237004

**Explanation:** System log entry only. No service action required.

---

### 432370DD

**Explanation:** System log entry only, no service action required.

---

### 4323FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV

---

### 4323FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 4323FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 4323FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4323FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4323FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 4323FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4323FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**4323FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4323FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**4323FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





---

## (4325) Reference codes

---

### 4325102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 43253002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

### 43253010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

### 43253020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

### 43253029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 43253100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 43253109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 43253110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

### 43253130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 43253131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 43257000

**Explanation:** Recoverable disk sector read error.

## 43257001 • 4325FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 43257001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 43257003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

### 43257004

**Explanation:** System log entry only. No service action required.

### 432570DD

**Explanation:** System log entry only, no service action required.

### 4325FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV
- 

### 4325FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV
- 

### 4325FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
  - STORIOA
- 

### 4325FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 4325FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 4325FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 4325FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 4325FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
-

---

**4325FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4325FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**4325FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4326) Reference codes

---

### 4326102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 43263002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

### 43263010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

### 43263020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

### 43263029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 43263100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 43263109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 43263110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

### 43263130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 43263131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 43267000

**Explanation:** Recoverable disk sector read error.

## 43267001 • 4326FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 43267001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 43267003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

### 43267004

**Explanation:** System log entry only. No service action required.

---

### 432670DD

**Explanation:** System log entry only, no service action required.

---

### 4326FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV

---

### 4326FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 4326FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 4326FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4326FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4326FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 4326FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4326FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**4326FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4326FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**4326FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





---

## (4327) Reference codes

---

### 4327102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 43273002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

### 43273010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

### 43273020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

### 43273029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 43273100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43273109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43273110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

### 43273130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43273131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43277000

**Explanation:** Recoverable disk sector read error.

## 43277001 • 4327FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 43277001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 43277003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

### 43277004

**Explanation:** System log entry only. No service action required.

### 432770DD

**Explanation:** System log entry only, no service action required.

### 4327FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV
- 

### 4327FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV
- 

### 4327FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
  - STORIOA
- 

### 4327FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 4327FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 4327FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 4327FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 4327FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
-

---

**4327FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4327FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**4327FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4328) Reference codes

---

### 4328102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 43283002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

### 43283010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

### 43283020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

### 43283029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 43283100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 43283109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 43283110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

### 43283130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 43283131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 43287000

**Explanation:** Recoverable disk sector read error.

## 43287001 • 4328FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 43287001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 43287003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

### 43287004

**Explanation:** System log entry only. No service action required.

---

### 432870DD

**Explanation:** System log entry only, no service action required.

---

### 4328FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV

---

### 4328FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 4328FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 4328FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4328FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4328FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 4328FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4328FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**4328FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4328FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**4328FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





---

## (4329) Reference codes

---

### 4329102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 43293002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

### 43293010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

### 43293020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

### 43293029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 43293100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43293109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 43293110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

### 43293130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43293131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 43297000

**Explanation:** Recoverable disk sector read error.

## 43297001 • 4329FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 43297001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 43297003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

### 43297004

**Explanation:** System log entry only. No service action required.

---

### 432970DD

**Explanation:** System log entry only, no service action required.

---

### 4329FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV

---

### 4329FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 4329FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 4329FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4329FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4329FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 4329FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 4329FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**4329FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4329FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**4329FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (433B) Reference codes

---

### 433B102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 433B3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 433B3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 433B3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 433B3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 433B3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 433B3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 433B310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 433B310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 433B3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 433B3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 433B34FF

**Explanation:** Format in progress.

## 433B4041 • 433BFFF9

**Response:** No action required. This reference code is logged for information only.

---

### 433B4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 433B4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 433B4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 433B4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 433B7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 433B7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433B70DD

**Explanation:** System log entry only, no service action required.

---

### 433BFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 433BFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 433BFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433BFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433BFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433BFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**433BFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**433BFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**433BFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433BFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433BFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (433C) Reference codes

---

### 433C102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 433C3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 433C3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 433C3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 433C3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 433C3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 433C3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 433C310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 433C310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 433C3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 433C3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 433C34FF

**Explanation:** Format in progress.

---

## 433C4041 • 433CFFF9

**Response:** No action required. This reference code is logged for information only.

---

### 433C4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 433C4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 433C4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 433C4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 433C7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 433C7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433C70DD

**Explanation:** System log entry only, no service action required.

---

### 433CFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 433CFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 433CFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433CFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433CFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433CFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**433CFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**433CFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**433CFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433CFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433CFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (433D) Reference codes

---

### 433D102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 433D3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 433D3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 433D3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 433D3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 433D3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 433D3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 433D310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 433D310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 433D3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 433D3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 433D34FF

**Explanation:** Format in progress.

---

## 433D4041 • 433DFFF9

**Response:** No action required. This reference code is logged for information only.

---

### 433D4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 433D4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 433D4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 433D4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 433D7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 433D7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433D70DD

**Explanation:** System log entry only, no service action required.

---

### 433DFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 433DFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 433DFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433DFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433DFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 433DFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**433DFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**433DFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**433DFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433DFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433DFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (4685) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 46853000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 46853202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 46853400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 46859020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 46859100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 46859101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 46859102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 46859103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 46859104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 46859200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 46859201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**46859202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**46859210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**46859211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**46859220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**46859221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**46859300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**46859301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**46859302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**46859303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**46859304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**46859310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**46859320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**46859321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**46859350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**46859351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**46859355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**46859500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**46859501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**46859800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**46859801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**46859802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**46859803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**46859804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**46859805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**46859806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**46859810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**46859899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**46859900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**46859901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**46859902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**46859903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**4685FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (4758) Reference codes

---

### 4758B990

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- FI00130
- IOP
- MA\_BRDG

---

### 4758B991

**Explanation:** Tampering of cryptographic card suspected.

**Failing Item:**

- IOA
- FI00130
- IOP

---

### 4758B992

**Explanation:** Operating voltage and/or temperature range limits exceeded.

**Response:** Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4758 adapter card. After the conditions have been corrected, vary off and then vary back on the 4758 device description associated with the 4758 adapter card.

**Failing Item:**

- CARDTMP





---

## (4764) Reference codes

---

### 4764B990

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
  - AJDG301
- 

### 4764B991

**Explanation:** Tampering of cryptographic card suspected.

**Failing Item:**

- IOA
  - AJDG301
- 

### 4764B992

**Explanation:** Operating voltage and/or temperature range limits exceeded.

**Response:** Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4764 / 4765 adapter card. After the conditions have been corrected, vary off and then vary back on the 4764 / 4765 device description associated with the 4764 / 4765 adapter card.

**Failing Item:**

- CARDTMP



---

## (4765) Reference codes

---

### 4765B990

**Explanation:** I/O adapter hardware error detected.

**Response:** If the secondary code for this error is F0F08038 do not work the failing item list unless you are directed to by your next level of support. This ends the procedure.

**Problem determination:** Perform the following steps:

1. Go to SST/DST.
2. View this error in the Product Activity Log (PAL) or the Service Action Log (SAL) under Hardware Service Manager.
3. Is the secondary code F0F08038?
  - No - There is no additional problem determination. This ends the procedure.
  - Yes - Certain cryptographic coprocessor cards of type 4765 may not function correctly in certain I/O enclosures. In order to avoid intermittent errors Licensed Internal Code (LIC) prevents an affected 4765 card from being used when it is installed in an I/O enclosure where it may not function correctly. This PAL entry was made with SRC 4765B990 and secondary code F0F08038 because LIC detected that the card may not function correctly in the I/O enclosure it is installed in. The location code of the 4765 card will be listed in the SAL. If you see this error contact IBM customer support to resolve this issue. This ends the procedure.

**Failing Item:**

- IOA
- AJDG301

---

### 4765B991

**Explanation:** Tampering of cryptographic card suspected.

**Failing Item:**

- IOA
- AJDG301

---

### 4765B992

**Explanation:** Operating voltage and/or temperature range limits exceeded.

**Response:** Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4764 / 4765 adapter card. After the conditions have been corrected, vary off and then vary back on the 4764 /

4765 device description associated with the 4764 / 4765 adapter card.

**Failing Item:**

- CARDTMP



---

## (4812) Reference codes

---

### 48126201

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
  - FI00730
- 

### 48126202

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- FI00730
  - IOA
- 

### 48126204

**Explanation:** I/O adapter failure due to a thermal condition.

**Failing Item:**

- IOA
- 

### 48126210

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- FI00730
- 

### 48126221

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDG301
  - DISKIMG
- 

### 48126222

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FI00730
  - IOA
- 

### 48126223

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOA
  - FI00730
- 

### 48126225

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FI00730
  - AJDG301
  - IOA
- 

### 48126226

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AJDG301
  - AS4NTDD
  - FI00584
- 

### 48126227

**Explanation:** Windows initiated a warm boot.

**Failing Item:**

- NTUSER
  - FI00730
  - IOA
- 

### 48126228

**Explanation:** Windows initiated a warm boot.

**Failing Item:**

- FI00730
  - IOA
- 

### 48126501

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- IOA
  - FI00730
- 

### 48126502

**Explanation:** A Windows fatal error occurred.

**Failing Item:**

- FI00730

## 48126530 • 4812653D

- IOA

---

### 48126530

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

### 48126531

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- FI00730

---

### 48126532

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
- FI00730
- AS4NTDD

---

### 48126533

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

### 48126534

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- FI00730
- NTOPSYS

---

### 48126535

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTDEVDR
- FI00730

---

### 48126538

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

### 48126539

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- FI00730

---

### 4812653A

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
- FI00730
- AS4NTDD

---

### 4812653B

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

### 4812653C

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- FI00730
- NTOPSYS

---

### 4812653D

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTDEVDR
  - FI00730
-

---

**4812653F****Explanation:** A Virtual SCSI error was detected.**Failing Item:**

- NTDEVDR
  - NTOPSYS
  - AJDG301
- 

**48126540****Explanation:** A Virtual SCSI error was detected.**Failing Item:**

- NTVSCSI
  - FI00730
  - AJDG301
- 

**48126541****Explanation:** A permanent I/O processor failure occurred.**Failing Item:**

- IOA
  - FI00730
- 

**48126542****Explanation:** Licensed Internal Code error detected.**Failing Item:**

- AJDG301
  - FI00730
- 

**48126543****Explanation:** A Windows fatal error occurred.**Failing Item:**

- NTOPSYS
  - NTVSCSI
- 

**48126580****Explanation:** A Windows fatal error occurred.**Failing Item:**

- NTOPSYS
  - NTVSCSI
  - DISKIMG
  - IOA
  - FI00730
- 

---

**4812B4B0****Explanation:** I/O adapter hardware error detected.**Failing Item:**

- IOA
- 

**4812B4B1****Explanation:** I/O adapter hardware error detected.**Failing Item:**

- IOA
  - MEMORY
- 

**4812B4B4****Explanation:** I/O adapter hardware error detected.**Failing Item:**

- IOA
  - MEMORY
- 

**4812B4B5****Explanation:** An I/O adapter failure occurred.**Failing Item:**

- FI00730
  - IOA
- 

**4812B4B8****Explanation:** Adapter card storage error.**Failing Item:**

- MEMORY
  - IOA
- 

**4812B4B9****Explanation:** An I/O adapter failure occurred.**Failing Item:**

- IOA
- 

**4812B4BC****Explanation:** I/O adapter error; logged only.**Failing Item:**

- IOA
- 

**4812B4BE****Explanation:** Adapter card storage error.**Failing Item:**

- MEMORY
- IOA

## 4812B904 • 4812B960

---

### 4812B904

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FI00730
  - IOA
- 

### 4812B960

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- FI00730
- IOP



---

## (506D) Reference codes

---

### 506D1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 506D1515

**Explanation:** A fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 506D1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 506D1525

**Explanation:** A fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 506D3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Failing Item:**

- DEVBPLN
  - STORIOA
- 

- FI01140
  - FI01106
- 

### 506D3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

### 506D7611

**Explanation:** A fatal error occurred on redundant fan 1.

**Failing Item:**

- DISKFAN
- 

### 506D7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

### 506D7621

**Explanation:** A fatal error occurred on redundant fan 2.

**Failing Item:**

- DISKFAN
- 

### 506D7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN
- 

### 506D7631

**Explanation:** A fatal error occurred on redundant fan 3.

**Failing Item:**

- DISKFAN
- 

### 506D7634

**Explanation:** A fatal error occurred on fan 3.

## 506D8401 • 506DFFF4

### Failing Item:

- DISKFAN
- 

### 506D8401

**Explanation:** Removable media power fault.

### Failing Item:

- DEVBPLN
- 

### 506D8404

**Explanation:** System log entry only, no service action required.

---

### 506DFFF4

**Explanation:** Device backplane problem.

### Failing Item:

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (506E) Reference codes

---

### 506E1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 506E1515

**Explanation:** A fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 506E1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 506E1525

**Explanation:** A fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

### 506E3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Failing Item:**

- DEVBPLN
  - STORIOA
- 

- FI01140
  - FI01106
- 

### 506E3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

### 506E7611

**Explanation:** A fatal error occurred on redundant fan 1.

**Failing Item:**

- DISKFAN
- 

### 506E7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

### 506E7621

**Explanation:** A fatal error occurred on redundant fan 2.

**Failing Item:**

- DISKFAN
- 

### 506E7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN
- 

### 506E7631

**Explanation:** A fatal error occurred on redundant fan 3.

**Failing Item:**

- DISKFAN
- 

### 506E7634

**Explanation:** A fatal error occurred on fan 3.

## 506E8401 • 506EFFF4

### Failing Item:

- DISKFAN
- 

### 506E8401

**Explanation:** Removable media power fault.

### Failing Item:

- DEVBPLN
- 

### 506E8404

**Explanation:** System log entry only, no service action required.

---

### 506EFFF4

**Explanation:** Device backplane problem.

### Failing Item:

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (509A) Reference codes

---

### 509A1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 509A1515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 509A1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 509A1525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 509A3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 509A3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 509A7613

**Explanation:** Fan 1 has failed or is operating below optimum. Enough redundant cooling capacity remains in the I/O enclosure to avoid an over temperature condition. The fan should be replaced at the customer's earliest convenience.

**Failing Item:**

- DISKFAN

---

### 509A7614

## 509A7623 • 509AFF4

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

### 509A7623

**Explanation:** Fan 2 has failed or is operating below optimum. Enough redundant cooling capacity remains in the I/O enclosure to avoid an over temperature condition. The fan should be replaced at the customer's earliest convenience.

**Failing Item:**

- DISKFAN
- 

### 509A7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN
- 

### 509A7633

**Explanation:** Fan 3 has failed or is operating below optimum. Enough redundant cooling capacity remains in the I/O enclosure to avoid an over temperature condition. The fan should be replaced at the customer's earliest convenience.

**Failing Item:**

- DISKFAN
- 

### 509A7634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 509A7643

**Explanation:** Fan 4 has failed or is operating below optimum. Enough redundant cooling capacity remains in the I/O enclosure to avoid an over temperature condition. The fan should be replaced at the customer's earliest convenience.

**Failing Item:**

- DISKFAN
- 

### 509A7644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN

---

### 509A8404

**Explanation:** System log entry only, no service action required.

---

### 509AFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (509D) Reference codes

---

### 509D1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- SASEXP

- SASEXP
- SASCABL
- STORIOA

---

### 509D1515

**Explanation:** A fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- SASEXP

---

### 509D3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA

---

### 509D3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA

---

### 509D7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 509D8404

**Explanation:** System log entry only, no service action required.

---

### 509DFFF4

**Explanation:** Device backplane problem.

**Failing Item:**





---

## (50A4) Reference codes

---

### 50A41511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50A41515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50A41521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50A41525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50A43002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 50A43109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 50A47614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 50A47624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 50A47634 • 50A4FFF4

---

### 50A47634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 50A47644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 50A48404

**Explanation:** System log entry only, no service action required.

---

### 50A4FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (50AD) Reference codes

---

### 50AD1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50AD1515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50AD1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50AD1525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50AD3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 50AD3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 50AD7614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 50AD7624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

## 50AD7634 • 50ADFFF4

---

### 50AD7634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN
- 

### 50AD7644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN
- 

### 50AD8404

**Explanation:** System log entry only, no service action required.

---

### 50ADFFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (50B1) Reference codes

---

### 50B11511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50B11515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50B11521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50B11525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about

the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50B13002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 50B13109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 50B17604

**Explanation:** A fatal error occurred on fan 16.

**Failing Item:**

- DISKFAN

---

### 50B17614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

## 50B17624 • 50B1FFF4

---

### 50B17624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

---

### 50B17634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN

---

### 50B17644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN

---

### 50B17654

**Explanation:** A fatal error occurred on fan 5.

**Failing Item:**

- DISKFAN

---

### 50B17664

**Explanation:** A fatal error occurred on fan 6.

**Failing Item:**

- DISKFAN

---

### 50B17674

**Explanation:** A fatal error occurred on fan 7.

**Failing Item:**

- DISKFAN

---

### 50B17684

**Explanation:** A fatal error occurred on fan 8.

**Failing Item:**

- DISKFAN

---

### 50B17694

**Explanation:** A fatal error occurred on fan 9.

**Failing Item:**

- DISKFAN

---

### 50B176A4

**Explanation:** A fatal error occurred on fan 10.

**Failing Item:**

- DISKFAN

---

### 50B176B4

**Explanation:** A fatal error occurred on fan 11.

**Failing Item:**

- DISKFAN

---

### 50B176C4

**Explanation:** A fatal error occurred on fan 12.

**Failing Item:**

- DISKFAN

---

### 50B176D4

**Explanation:** A fatal error occurred on fan 13.

**Failing Item:**

- DISKFAN

---

### 50B176E4

**Explanation:** A fatal error occurred on fan 14.

**Failing Item:**

- DISKFAN

---

### 50B176F4

**Explanation:** A fatal error occurred on fan 15.

**Failing Item:**

- DISKFAN

---

### 50B18404

**Explanation:** System log entry only, no service action required.

---

### 50B1FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (5619) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 56193000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 56193202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 56193400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 56199020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 56199100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 56199101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 56199102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 56199103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 56199104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 56199200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 56199201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.



5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**56199202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**56199210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**56199211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**56199220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**56199221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**56199300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**56199301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**56199302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**56199303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**56199304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**56199310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**56199320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**56199321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**56199350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**56199351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**56199355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**56199500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**56199501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**56199800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56199801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56199802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56199803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56199804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56199805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56199806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56199810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**56199899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**56199900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**56199901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**56199902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**56199903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**5619FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (5638) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 56383000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 56383202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 56383400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 56389020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 56389100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 56389101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 56389102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 56389103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 56389104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 56389200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 56389201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**56389202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**56389210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**56389211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**56389220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**56389221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**56389300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**56389301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**56389302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**56389303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**56389304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**56389310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**56389320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**56389321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**56389350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**56389351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**56389355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**56389500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**56389501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**56389800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.



---

**56389801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56389802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56389803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56389804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56389805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56389806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56389810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**56389899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**56389900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**56389901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**56389902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**56389903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**5638FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (5675) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 56753000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 56753202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 56753400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 56759020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 56759100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 56759101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 56759102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 56759103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 56759104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 56759200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 56759201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**56759202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**56759210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**56759211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**56759220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**56759221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**56759300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**56759301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**56759302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**56759303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**56759304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**56759310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**56759320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**56759321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**56759350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**56759351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**56759355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**56759500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**56759501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**56759800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56759801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56759802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56759803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56759804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56759805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56759806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**56759810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**56759899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**56759900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**56759901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**56759902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**56759903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**5675FFF6**

**Explanation:** Tape volume statistics logged (no action required).





---

## (5700) Reference codes

---

### 5700A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDGP01
- 

### 5700B9A0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 5700B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- AJDG301
- MA\_BRDG



---

## (5701) Reference codes

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### 5701A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDGP01
- 

### 5701B9A0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 5701B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- AJDG301
- MA\_BRDG



---

## (5702) Reference codes

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### 57020A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 57020A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 5702102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- FI01105
- 

### 57021306

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

### 57021307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 57021310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57021317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 57022200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 57022201

**Explanation:** Removable media error during IPL.

**Failing Item:**

- USER
  - FI01105
- 

### 57022202

**Explanation:** Removable media error during IPL.

**Failing Item:**

- FI00022
  - FI01105
- 

### 57023000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 57023001 • 57023084

- FI01101
- IOP
- MA\_BRDG

---

### 57023001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 57023002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 57023006

**Explanation:** System bus error.

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 57023020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 57023021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 57023022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 57023023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 57023080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 57023081

**Explanation:** System log entry only, no service action required.

---

### 57023084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

**57023087**

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**57023100**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**57023101**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**57023102**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**57023103**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**57023109**

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**57023110**

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**57023120**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**57023121**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57023122

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57023123

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57023136

**Explanation:** The removable media device is assigned elsewhere.

**Failing Item:**

- USER
- FI01105

---

57023140

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

57023141

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

57023142

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

57023143

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

57023150

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

57023151

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

57023200

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

57023203

**Explanation:** Disk media format bad.

**Failing Item:**

- FI01105

---

57023205

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105



---

**57023215**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

**57023250**

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

**57023300**

**Explanation:** Storage unit detected a media problem.

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**57023400**

**Explanation:** I/O processor card detected device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**57023401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**57023501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

---

**57023600**

**Explanation:** System log entry only, no service action required.

---

**57023601**

**Explanation:** System log entry only, no service action required.

---

**57026070**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**57026071**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**57026072**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**57026073**

**Explanation:** IPL device not ready.

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**57026075**

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
- 

**57026076**

**Explanation:** I/O processor card detected media error.

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

57026081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

57026082

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

57026083

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

57026085

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
  - MA\_BRDG
- 

57026200

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

57026201

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01
- 

57026602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01
- 

---

57028000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

57028002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

57028004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
  - STORIOA
- 

57028005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

57028007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-

---

**57028010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**57028011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**57028100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**57028130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**57028131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**57028132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**57028133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**57028140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**57028141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57028145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**57028146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**57028150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57028151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

57028155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

## 57028156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

## 57028157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

## 57028200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

## 57028300

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

57028301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

## 57028400

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

## 57029000

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

## 57029001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

## 57029002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

## 57029008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
-

---

**57029009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**57029010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**57029011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**57029012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**57029013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**57029020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**57029021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**57029022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**57029023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**57029024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**57029025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**57029026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**57029027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**57029028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

57029029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

## 5702902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

## 57029030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21
- 

## 57029031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

## 57029040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

## 57029041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01
- 

## 57029050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

57029051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

## 57029052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28
- 

## 57029053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

## 57029054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

## 57029081

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

---

**57029082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**57029090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**57029091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**57029092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**5702B3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**5702B3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**5702B3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**5702B3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**5702B3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**5702B3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**5702B3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**5702B3B8**

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**5702B3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 5702B3E0 • 5702FF6D

- IOP

---

### 5702B3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 5702B3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 5702B410

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 5702B411

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 5702B412

**Explanation:** Tape/CD or disk bus interface error occurred.

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

### 5702B935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

### 5702BE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

### 5702FF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 5702FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS



---

## (5703) Reference codes

---

### 57031310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57033006

**Explanation:** System bus error.

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

### 57033020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57033021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57033022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

### 57033023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57033100

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 57033101

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 57033102

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 57033103 • 57033151

- FI01140
- DEVBPLN

---

### 57033103

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 57033120

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57033121

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57033122

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57033123

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57033140

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

### 57033141

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

### 57033142

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

### 57033143

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

### 57033150

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 57033151

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**57033400**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**57033401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**57033501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**57033600**

**Explanation:** System log entry only, no service action required.

---

**57033601**

**Explanation:** System log entry only, no service action required.

---

**57038008**

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

---

**57038009**

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

**57038012**

**Explanation:** Attached read cache devices exceed capacity supported by IOA.

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

**57038100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**57038130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**57038131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**57038132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**57038133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**57038140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**57038141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57038145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**57038146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**57038150**

**Explanation:** A permanent I/O processor failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57038151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

---

**57038155**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**57038156**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**57038157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

**57038200**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**57039000**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
-

---

57039001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

## 57039002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

## 57039008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
- 

## 57039009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

## 57039010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

## 57039011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

## 57039020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

57039021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

## 57039022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 57039023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 57039024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 57039025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

## 57039026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 57039027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

## 57039028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

## 57039029 • 57039053

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

### 57039029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 5703902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

### 57039030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

### 57039031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

### 57039032

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

### 57039040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

### 57039041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

### 57039042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

### 57039050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

### 57039051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

### 57039052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 57039053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**57039054**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**57039071**

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

**57039072**

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

**57039073**

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

**57039081**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

**57039082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

**57039090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57039091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57039092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

**57039093**

**Explanation:** Read cache device not in correct format.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

**5703B934**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

**5703FF3D**

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA

## 5703FF6D

- ANYBRDG

---

## 5703FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS



---

## (5704) Reference codes

---

### 57041310

**Explanation:** I/O processor or I/O adapter resource not available.

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57043020

**Explanation:** I/O processor detected a configuration error.

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 57043100

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 57043120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 57043140

**Explanation:** I/O Processor detected that a port is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 57043200

**Explanation:** A disk device reported a failure.

**Failing Item:**

- FCDEV
  - FCIOA
  - IOP
  - OPT\_CLN
- 

### 57043400

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 570434FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

### 57048130

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 57048140

**Explanation:** Recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 57048141

**Explanation:** IOA detected recoverable device error.

**Response:** No action required. This reference code is

logged for information only.

---

57048145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

57048146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FCDEV

---

57048150

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

57048151

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

57048155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

57048156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

57049091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57049092

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

5704FF3D

**Explanation:** Recovered IOA error.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

## (5706) Reference codes

---

### 5706A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDGP01
- 

### 5706B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDGP01



---

## (5707) Reference codes

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### 5707A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDGP01
- 

### 5707B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDGP01



---

## (5708) Reference codes

---

57081310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57083006

**Explanation:** System bus error.

**Failing Item:**

- AUXIOA
  - ANYBRDG
  - IOP
- 

57083100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

57083101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

57083400

**Explanation:** SCSI resource error.

**Failing Item:**

- AUXCBL
  - PRIMIOA
- 

57086075

**Explanation:** I/O processor resource not available.

**Failing Item:**

- PTFSRCH
- 

57088008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - AUXIOA
- 

57088009

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

57088130

**Explanation:** IOA detected recoverable SCSI bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

57088131

**Explanation:** IOA detected recoverable SCSI bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

57088140

**Explanation:** IOA detected recoverable SCSI bus error.

**Response:** No action is required. This reference code is logged for information only.

---

57088141

**Explanation:** IOA detected recoverable SCSI resource error.

**Response:** No action is required. This reference code is logged for information only.

---

57088145

---

**Explanation:** A recoverable error occurred.

**Failing Item:**

- AUXIOA

57088150

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
- ANYBRDG

57088151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- AUXIOA

57088155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- AUXIOA

57088156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- AUXIOA

57088157

**Explanation:** I/O adapter card temporary error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

57088300

**Explanation:** IOA hardware or PCI bus error.

**Failing Item:**

- AUXIOA
- ANYBRDG
- PTFSRCH

57088301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- AUXIOA

57088302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- AUXIOA

57089055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

57089071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

57089072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.



---

57089073

**Explanation:** Disconnected, incompatible, or non-operational storage IOA.

**Failing Item:**

- IOPIP41

---

5708FF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- AUXIOA
- ANYBRDG



---

## (5709) Reference codes

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### 57091310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57093006

**Explanation:** System bus error.

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

### 57093020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57093021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57093022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

### 57093023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57093100

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 57093101

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 57093102

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 57093103 • 57093151

- FI01140
- DEVBPLN

---

### 57093103

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 57093120

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57093121

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57093122

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57093123

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57093140

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

### 57093141

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

### 57093142

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

### 57093143

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

### 57093150

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 57093151

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**57093400**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**57093401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**57093501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**57093600**

**Explanation:** System log entry only, no service action required.

---

**57093601**

**Explanation:** System log entry only, no service action required.

---

**57098008**

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

---

**57098009**

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

**57098012**

**Explanation:** Attached read cache devices exceed capacity supported by IOA.

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

**57098100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**57098130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**57098131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**57098132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**57098133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**57098140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**57098141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57098145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**57098146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**57098150**

**Explanation:** A permanent I/O processor failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57098151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

---

**57098155**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**57098156**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
  - STORIOA
- 

**57098157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

**57098200**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**57099000**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
  - STORIOA
-

---

57099001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33
- 

## 57099002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

## 57099008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25
- 

## 57099009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

## 57099010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

## 57099011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

## 57099020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

57099021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

## 57099022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 57099023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 57099024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 57099025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

## 57099026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

## 57099027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

## 57099028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

## 57099029 • 57099053

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

### 57099029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 5709902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

### 57099030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

### 57099031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

### 57099032

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

### 57099040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

### 57099041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

### 57099042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

### 57099050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

### 57099051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

### 57099052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 57099053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a



type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**57099054**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

**57099071**

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

**57099072**

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

**57099073**

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

**57099081**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

**57099082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

**57099090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57099091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57099092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

**57099093**

**Explanation:** Read cache device not in correct format.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

**5709B934**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

**5709FF3D**

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA

## 5709FF6D

- ANYBRDG

---

## 5709FF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (570B) Reference codes

---

### 570B0A17

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

### 570B0A22

**Explanation:** I/O processor detected a storage transfer error.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

### 570B102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- FI01105
- 

### 570B1306

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

### 570B1307

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
  - AJDG301
- 

### 570B1310

**Explanation:** I/O processor resource not available.

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 570B1317

**Explanation:** I/O processor card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 570B2200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

### 570B2201

**Explanation:** Removable media error during IPL.

**Failing Item:**

- USER
  - FI01105
- 

### 570B2202

**Explanation:** Removable media error during IPL.

**Failing Item:**

- FI00022
  - FI01105
- 

### 570B3000

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 570B3001 • 570B3084

- FI01101
- IOP
- MA\_BRDG

---

### 570B3001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 570B3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 570B3006

**Explanation:** System bus error.

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 570B3020

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 570B3021

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 570B3022

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 570B3023

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 570B3080

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 570B3081

**Explanation:** System log entry only, no service action required.

---

### 570B3084

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

**570B3087**

**Explanation:** I/O processor resource not available.

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**570B3100**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**570B3101**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**570B3102**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**570B3103**

**Explanation:** I/O processor card detected interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**570B3109**

**Explanation:** I/O processor timed out a device command.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**570B3110**

**Explanation:** I/O processor card detected interface error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**570B3120**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**570B3121**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**570B3122**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**570B3123**

**Explanation:** I/O Processor detected that the bus is not operational.

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

**570B3136**

**Explanation:** The removable media device is assigned elsewhere.

**Failing Item:**

- USER
- FI01105

---

**570B3140**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

**570B3141**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

**570B3142**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

**570B3143**

**Explanation:** I/O Processor detected that the bus is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

**570B3150**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

**570B3151**

**Explanation:** I/O processor detected a SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

**570B3200**

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

**570B3203**

**Explanation:** Disk media format bad.

**Failing Item:**

- FI01105

---

**570B3205**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

**570B3215**

**Explanation:** Disk sector read error.

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

**570B3250**

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

**570B3300**

**Explanation:** Storage unit detected a media problem.

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**570B3400**

**Explanation:** I/O processor card detected device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**570B3401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**570B3501**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

---

**570B3600**

**Explanation:** System log entry only, no service action required.

---

**570B3601**

**Explanation:** System log entry only, no service action required.

---

**570B6070**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**570B6071**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- 

**570B6072**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**570B6073**

**Explanation:** IPL device not ready.

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**570B6075**

**Explanation:** I/O processor resource not available.

**Failing Item:**

- AJDGP01
- 

**570B6076**

**Explanation:** I/O processor card detected media error.

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

570B6081

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

570B6082

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

570B6083

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

570B6085

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

570B6200

**Explanation:** A permanent IOA hardware error occurred.

**Failing Item:**

- FCIOA
- OPT\_CLN

---

570B6201

**Explanation:** IOA LID is not valid.

**Failing Item:**

- AJDGP01

---

570B6602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

570B8000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

570B8002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

570B8004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

570B8005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

570B8007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA



---

**570B8010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**570B8011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**570B8100**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - IOP
- 

**570B8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**570B8131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**570B8132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**570B8133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**570B8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**570B8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**570B8145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**570B8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**570B8150**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**570B8151**

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

570B8155

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

570B8156

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- AJDGP01
- STORIOA

---

570B8157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

570B8200

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01
- IOP

---

570B8300

**Explanation:** I/O processor card or Licensed Internal Code error.

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
- IOP
- AJDGP01

---

570B8301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code.

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
- AJDGP01
- IOP

---

570B8400

**Explanation:** I/O processor Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

570B9000

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

---

570B9001

**Explanation:** I/O processor card detected device configuration error.

**Failing Item:**

- IOPIP33

---

570B9002

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

570B9008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25

---

**570B9009**

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS
- 

**570B9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31
- 

**570B9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32
- 

**570B9012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**570B9013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**570B9020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**570B9021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**570B9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**570B9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**570B9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**570B9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**570B9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**570B9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**570B9028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

570B9029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

570B902F

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

570B9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- IOPIP21

---

570B9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

570B9040

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

570B9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

570B9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

570B9051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

570B9052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

570B9053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

570B9054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

570B9081

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- FI01105
- STORIOA

---

**570B9082**

**Explanation:** I/O processor card detected device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**570B9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**570B9091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**570B9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**570BB3B1**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**570BB3B2**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**570BB3B3**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**570BB3B4**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**570BB3B5**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**570BB3B6**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**570BB3B7**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- IOP
- 

**570BB3B8**

**Explanation:** Multi-adapter Bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**570BB3B9**

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

## 570BB3E0 • 570BFF6D

- IOP

---

### 570BB3E0

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 570BB3E1

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- IOP
- MA\_BRDG

---

### 570BB410

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 570BB411

**Explanation:** A permanent I/O processor failure occurred.

**Failing Item:**

- STORIOA

---

### 570BB412

**Explanation:** Tape/CD or disk bus interface error occurred.

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

### 570BB935

**Explanation:** Unknown hardware detected.

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

### 570BBE00

**Explanation:** I/O processor detected a fault condition.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

### 570BFF3D

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 570BFF6D

**Explanation:** I/O processor detected a recoverable system bus error.

**Failing Item:**

- IOP
- ANYBUS

---

## (571A) Reference codes

---

### 571A1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 571A3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- FI01101
  - ANYBRDG
- 

### 571A3006

**Explanation:** System bus error.

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

### 571A3020

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571A3021

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571A3022

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571A3023

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571A3100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 571A3101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 571A3102

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

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- STORIOA
- FI01140
- DEVBPLN

---

### 571A3103

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 571A3120

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 571A3121

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 571A3122

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 571A3123

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 571A3140

**Explanation:** Bus is operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

### 571A3141

**Explanation:** Bus is operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

### 571A3142

**Explanation:** Bus is operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

### 571A3143

**Explanation:** Bus is operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

### 571A3150

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 571A3151

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

### 571A3200

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- MEDIA



---

**571A3202**

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**571A3400**

**Explanation:** Device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**571A3401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**571A3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**571A34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**571A3501**

**Explanation:** Licensed Internal Code error.

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**571A3601**

**Explanation:** System log entry only. No service action required.

---

**571A4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

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the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571A4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571A8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

### 571A8009

**Explanation:** Impending cache battery pack failure.

### Failing Item:

- CACHBAT

---

### 571A8100

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 571A8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

**571A8131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**571A8132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**571A8133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**571A8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**571A8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**571A8145**

**Explanation:** A recoverable error occurred.

**Failing Item:**

- STORIOA

---

**571A8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**571A8150**

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**571A8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571A8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571A8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571A8157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 571A8300 • 571A9021

- SVCDOCS

---

### 571A8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

### 571A8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

### 571A8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

### 571A8400

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

### 571A8404

**Explanation:** System log entry only. No service action required.

---

### 571A9000

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

### 571A9001

**Explanation:** Device configuration error.

**Failing Item:**

- IOPIP33

---

### 571A9002

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

### 571A9008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25

---

### 571A9009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS

---

### 571A9010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31

---

### 571A9011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32

---

### 571A9020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

### 571A9021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

**571A9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571A9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571A9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571A9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**571A9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571A9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**571A9028**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

---

**571A9029**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**571A902F**

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

**571A9030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**571A9031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**571A9032**

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**571A9040**

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

571A9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH

---

571A9042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

571A9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

571A9051

**Explanation:** Cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

571A9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

571A9053

**Explanation:** IOA resources not available due to previous problems.

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571A9054

**Explanation:** IOA resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571A9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

571A9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

571A9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

---

571A9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

571A9082

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

---

**571A9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**571A9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**571A9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

---

**571A9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

**571A9902**

**Explanation:** System log entry only. No service action required.

---

**571A9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**571AC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571AC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571AC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**571AFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**571AFF6D**

**Explanation:** Recoverable system bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH





---

## (571B) Reference codes

---

### 571B1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 571B3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- FI01101
  - ANYBRDG
- 

### 571B3006

**Explanation:** System bus error.

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

### 571B3020

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571B3021

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571B3022

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571B3023

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571B3100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 571B3101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 571B3102

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

- STORIOA
- FI01140
- DEVBPLN

---

571B3103

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

571B3120

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571B3121

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571B3122

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571B3123

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571B3140

**Explanation:** Bus is operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

571B3141

**Explanation:** Bus is operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

571B3142

**Explanation:** Bus is operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

571B3143

**Explanation:** Bus is operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

571B3150

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

571B3151

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

571B3200

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

**571B3202**

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**571B3400**

**Explanation:** Device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**571B3401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**571B3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**571B34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**571B3501**

**Explanation:** Licensed Internal Code error.

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**571B3601**

**Explanation:** System log entry only. No service action required.

---

**571B4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 571B4160 • 571B8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571B4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571B8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

### 571B8009

**Explanation:** Impending cache battery pack failure.

### Failing Item:

- CACHBAT

---

### 571B8100

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 571B8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

**571B8131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**571B8132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**571B8133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**571B8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**571B8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**571B8145**

**Explanation:** A recoverable error occurred.

**Failing Item:**

- STORIOA

---

**571B8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**571B8150**

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**571B8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571B8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571B8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571B8157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 571B8300 • 571B9021

- SVCDOCS

---

### 571B8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

### 571B8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

### 571B8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

### 571B8400

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

### 571B8404

**Explanation:** System log entry only. No service action required.

---

### 571B9000

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

### 571B9001

**Explanation:** Device configuration error.

**Failing Item:**

- IOPIP33

---

### 571B9002

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

### 571B9008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25

---

### 571B9009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS

---

### 571B9010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31

---

### 571B9011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32

---

### 571B9020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

### 571B9021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

**571B9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571B9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571B9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571B9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**571B9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571B9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**571B9028**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

---

**571B9029**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**571B902F**

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

**571B9030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**571B9031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**571B9032**

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**571B9040**

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

571B9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH

---

571B9042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

571B9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

571B9051

**Explanation:** Cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

571B9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

571B9053

**Explanation:** IOA resources not available due to previous problems.

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571B9054

**Explanation:** IOA resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571B9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

571B9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

571B9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

---

571B9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

571B9082

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140



- BACKPLN
- FI01106

---

**571B9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**571B9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**571B9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

---

**571B9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

**571B9902**

**Explanation:** System log entry only. No service action required.

---

**571B9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**571BC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571BC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571BC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**571BFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**571BFF6D**

**Explanation:** Recoverable system bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH



---

## (571E) Reference codes

---

### 571E1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 571E3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- FI01101
  - ANYBRDG
- 

### 571E3006

**Explanation:** System bus error.

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

### 571E3020

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571E3021

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571E3022

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571E3023

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571E3100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 571E3101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 571E3102

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 571E3103 • 571E3200

- STORIOA
- FI01140
- DEVBPLN

---

### 571E3103

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 571E3120

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 571E3121

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 571E3122

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 571E3123

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 571E3140

**Explanation:** Bus is operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

### 571E3141

**Explanation:** Bus is operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

### 571E3142

**Explanation:** Bus is operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

### 571E3143

**Explanation:** Bus is operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

### 571E3150

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 571E3151

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

### 571E3200

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

**571E3202**

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**571E3400**

**Explanation:** Device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**571E3401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**571E3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**571E34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**571E3501**

**Explanation:** Licensed Internal Code error.

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**571E3601**

**Explanation:** System log entry only. No service action required.

---

**571E4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 571E4160 • 571E8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571E4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571E8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

### 571E8009

**Explanation:** Impending cache battery pack failure.

### Failing Item:

- CACHBAT

---

### 571E8100

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 571E8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

**571E8131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**571E8132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**571E8133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**571E8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**571E8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**571E8145**

**Explanation:** A recoverable error occurred.

**Failing Item:**

- STORIOA

---

**571E8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**571E8150**

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**571E8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571E8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571E8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571E8157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 571E8300 • 571E9021

- SVCDOCS

---

### 571E8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

### 571E8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

### 571E8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

### 571E8400

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

### 571E8404

**Explanation:** System log entry only. No service action required.

---

### 571E9000

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

### 571E9001

**Explanation:** Device configuration error.

**Failing Item:**

- IOPIP33

---

### 571E9002

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

### 571E9008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25

---

### 571E9009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS

---

### 571E9010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31

---

### 571E9011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32

---

### 571E9020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

### 571E9021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20



---

**571E9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571E9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571E9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571E9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**571E9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571E9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**571E9028**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

---

**571E9029**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**571E902F**

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

**571E9030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**571E9031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**571E9032**

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**571E9040**

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

571E9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH

---

571E9042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

571E9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

571E9051

**Explanation:** Cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

571E9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

571E9053

**Explanation:** IOA resources not available due to previous problems.

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571E9054

**Explanation:** IOA resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571E9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

571E9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

571E9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

---

571E9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

571E9082

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

---

**571E9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**571E9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**571E9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

---

**571E9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

**571E9902**

**Explanation:** System log entry only. No service action required.

---

**571E9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**571EC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571EC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571EC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**571EFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**571EFF6D**

**Explanation:** Recoverable system bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH



---

## (571F) Reference codes

---

### 571F1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 571F3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- FI01101
  - ANYBRDG
- 

### 571F3006

**Explanation:** System bus error.

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

### 571F3020

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571F3021

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571F3022

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571F3023

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 571F3100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 571F3101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 571F3102

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

- STORIOA
- FI01140
- DEVBPLN

---

571F3103

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

571F3120

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571F3121

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571F3122

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571F3123

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571F3140

**Explanation:** Bus is operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

571F3141

**Explanation:** Bus is operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

571F3142

**Explanation:** Bus is operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

571F3143

**Explanation:** Bus is operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

571F3150

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

571F3151

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

571F3200

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

**571F3202**

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**571F3400**

**Explanation:** Device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**571F3401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**571F3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**571F34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**571F3501**

**Explanation:** Licensed Internal Code error.

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**571F3601**

**Explanation:** System log entry only. No service action required.

---

**571F4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 571F4160 • 571F8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571F4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571F8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

### 571F8009

**Explanation:** Impending cache battery pack failure.

### Failing Item:

- CACHBAT

---

### 571F8100

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 571F8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action



is required. This reference code is logged for information only.

---

**571F8131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**571F8132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**571F8133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**571F8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**571F8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**571F8145**

**Explanation:** A recoverable error occurred.

**Failing Item:**

- STORIOA

---

**571F8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**571F8150**

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**571F8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571F8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571F8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571F8157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 571F8300 • 571F9021

- SVCDOCS

---

### 571F8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

### 571F8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

### 571F8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

### 571F8400

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

### 571F8404

**Explanation:** System log entry only. No service action required.

---

### 571F9000

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

### 571F9001

**Explanation:** Device configuration error.

**Failing Item:**

- IOPIP33

---

### 571F9002

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

### 571F9008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25

---

### 571F9009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS

---

### 571F9010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31

---

### 571F9011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32

---

### 571F9020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

### 571F9021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

**571F9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571F9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571F9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571F9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**571F9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**571F9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**571F9028**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

---

**571F9029**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**571F902F**

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

**571F9030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**571F9031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**571F9032**

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**571F9040**

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

571F9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH
- 

571F9042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

571F9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30
- 

571F9051

**Explanation:** Cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

571F9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

571F9053

**Explanation:** IOA resources not available due to previous problems.

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

571F9054

**Explanation:** IOA resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

571F9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

571F9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

571F9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40
- 

571F9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

571F9082

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

---

**571F9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**571F9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**571F9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

---

**571F9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

**571F9902**

**Explanation:** System log entry only. No service action required.

---

**571F9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**571FC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571FC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571FC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**571FFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**571FFF6D**

**Explanation:** Recoverable system bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH



---

## (572A) Reference codes

---

### 572A1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 572A3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 572A3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 572A3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 572A3140

**Explanation:** System log entry only. No service action required.

---

### 572A3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 572A3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 572A3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 572A3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 572A34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 572A3601

**Explanation:** System log entry only. No service action required.

---

### 572A4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 572A4020

## 572A4030 • 572A4160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 572A4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 572A4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 572A4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 572A4050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 572A4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 572A4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 572A4070

**Explanation:** System log entry only. No service action required.

---

### 572A4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 572A4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 572A4110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 572A4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 572A4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA



---

**572A70DD**

**Explanation:** Disrupt device command completed successfully.

---

**572A8008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**572A8009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

**572A8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**572A8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**572A8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

---

**Failing Item:**

- SIP3150

---

**572A8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**572A8145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

**572A8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**572A8150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**572A8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**572A8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572A8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572A8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

572A8300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

572A8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**572A8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**572A8400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**572A8404**

**Explanation:** System log entry only. No service action required.

---

**572A9000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**572A9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**572A9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**572A9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**572A9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**572A9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**572A9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572A9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572A9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572A9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**572A9024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**572A9025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

572A9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

572A9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

572A9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

572A9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572A9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

572A9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

572A9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

572A9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

572A9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572A9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572A9050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

572A9051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

572A9052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

## 572A9054

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

## 572A9055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

## 572A9070

**Explanation:** System log entry only. No service action required.

## 572A9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

## 572A9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

## 572A9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

## 572A9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

## 572A9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

## 572A9076

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

## 572A9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

## 572A9082

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

## 572A9083

**Explanation:** System log entry only. No service action required.

## 572A9084

**Explanation:** System log entry only. No service action required.

## 572A9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

## 572A9091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 572A9092 • 572AFF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 572A9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 572A9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 572A9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 572AC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 572AC402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 572AFF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (572B) Reference codes

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### 572B1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 572B3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 572B3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 572B3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 572B3140

**Explanation:** System log entry only. No service action required.

---

### 572B3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 572B3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 572B3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 572B3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 572B34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 572B3601

**Explanation:** System log entry only. No service action required.

---

### 572B4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 572B4020

## 572B4030 • 572B4160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 572B4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 572B4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 572B4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 572B4050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 572B4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 572B4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 572B4070

**Explanation:** System log entry only. No service action required.

---

### 572B4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 572B4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 572B4110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 572B4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 572B4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA



---

**572B70DD**

**Explanation:** Disrupt device command completed successfully.

---

**572B8008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**572B8009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

**572B8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**572B8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**572B8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

---

**Failing Item:**

- SIP3150

---

**572B8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**572B8145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

**572B8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**572B8150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**572B8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**572B8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572B8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572B8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

572B8300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

572B8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**572B8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**572B8400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**572B8404**

**Explanation:** System log entry only. No service action required.

---

**572B9000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**572B9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**572B9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**572B9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**572B9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**572B9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**572B9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572B9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572B9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572B9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**572B9024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**572B9025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

572B9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

572B9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

572B9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

572B9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572B9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

572B9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

572B9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

572B9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

572B9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572B9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572B9050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

572B9051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

572B9052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

**572B9054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

**572B9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

**572B9070**

**Explanation:** System log entry only. No service action required.

**572B9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

**572B9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

**572B9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

**572B9074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

**572B9075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

**572B9076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

**572B9081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**572B9082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**572B9083**

**Explanation:** System log entry only. No service action required.

**572B9084**

**Explanation:** System log entry only. No service action required.

**572B9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**572B9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 572B9092 • 572BFF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 572B9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 572B9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 572B9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 572BC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 572BC402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 572BFF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (572C) Reference codes

---

### 572C1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 572C3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 572C3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 572C3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 572C3140

**Explanation:** System log entry only. No service action required.

---

### 572C3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 572C3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 572C3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 572C3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 572C34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 572C3601

**Explanation:** System log entry only. No service action required.

---

### 572C4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 572C4020

## 572C4030 • 572C4160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 572C4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 572C4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 572C4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 572C4050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 572C4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 572C4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 572C4070

**Explanation:** System log entry only. No service action required.

---

### 572C4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 572C4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 572C4110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 572C4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 572C4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA



---

572C70DD

**Explanation:** Disrupt device command completed successfully.

---

572C8008

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

572C8009

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

572C8100

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572C8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

572C8140

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

572C8141

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

572C8145

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

572C8146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

572C8150

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

572C8151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572C8155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572C8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572C8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

572C8300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

572C8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**572C8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**572C8400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**572C8404**

**Explanation:** System log entry only. No service action required.

---

**572C9000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**572C9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**572C9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**572C9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**572C9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**572C9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**572C9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572C9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572C9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572C9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**572C9024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**572C9025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

572C9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

572C9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

572C9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

572C9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572C9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

572C9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

572C9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

572C9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

572C9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572C9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572C9050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

572C9051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

572C9052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

## 572C9054

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

## 572C9055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

## 572C9070

**Explanation:** System log entry only. No service action required.

## 572C9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

## 572C9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

## 572C9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

## 572C9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

## 572C9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

## 572C9076

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

## 572C9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

## 572C9082

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

## 572C9083

**Explanation:** System log entry only. No service action required.

## 572C9084

**Explanation:** System log entry only. No service action required.

## 572C9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

## 572C9091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 572C9092 • 572CFF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 572C9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 572C9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 572C9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 572CC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 572CC402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 572CFF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (572F) Reference codes

---

### 572F1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 572F3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 572F3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150

---

### 572F3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150

---

### 572F3140

**Explanation:** System log entry only. No service action required.

---

### 572F3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 572F3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

### 572F3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 572F3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 572F34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 572F3601

**Explanation:** System log entry only. No service action required.

---

### 572F4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 572F4020

## 572F4030 • 572F4160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 572F4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 572F4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 572F4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 572F4050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 572F4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 572F4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 572F4070

**Explanation:** System log entry only. No service action required.

---

### 572F4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 572F4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 572F4110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 572F4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 572F4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA



---

**572F70DD**

**Explanation:** Disrupt device command completed successfully.

---

**572F8008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**572F8009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

**572F8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**572F8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**572F8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

---

**Failing Item:**

- SIP3150

---

**572F8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**572F8145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

**572F8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**572F8150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**572F8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**572F8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572F8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572F8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

572F8300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

572F8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**572F8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**572F8400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**572F8404**

**Explanation:** System log entry only. No service action required.

---

**572F9000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**572F9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**572F9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**572F9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**572F9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**572F9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**572F9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572F9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572F9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**572F9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**572F9024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**572F9025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

572F9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

572F9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

572F9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

572F9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572F9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

572F9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

572F9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

572F9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

572F9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572F9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572F9050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

572F9051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

572F9052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

**572F9054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

**572F9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

**572F9070**

**Explanation:** System log entry only. No service action required.

**572F9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

**572F9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

**572F9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

**572F9074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

**572F9075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

**572F9076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

**572F9081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**572F9082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**572F9083**

**Explanation:** System log entry only. No service action required.

**572F9084**

**Explanation:** System log entry only. No service action required.

**572F9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**572F9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

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reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 572F9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 572F9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 572F9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 572FC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 572FC402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 572FFF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (573A) Reference codes

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573AA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

573AB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301





---

## (573B) Reference codes

---

### 573BA6D9

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
  - FI00722
  - AJDG301
- 

### 573BA6E3

**Explanation:** Ethernet adapter or network device cabling error.

**Failing Item:**

- FI00722
  - UJE40
  - IOA
- 

### 573BB100

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
  - AJDG301
- 

### 573BB200

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- AJDG301
  - IOA
- 

### 573BB300

**Explanation:** An I/O adapter hardware error was detected.

**Response:** Work the Failing Item list from the serviceable event view if it is available, otherwise use this Failing Item list.

**Problem determination:** Varying off and then varying on the resource may resolve the problem. If that does not resolve the problem then have the service provider work the problem.

**Failing Item:**

- IOA
- AJDG301



---

## (573C) Reference codes

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### 573CA6D9

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
  - FI00722
  - AJDG301
- 

### 573CA6E3

**Explanation:** Ethernet adapter or network device cabling error.

**Failing Item:**

- FI00722
  - UJE40
  - IOA
- 

### 573CB100

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
  - AJDG301
- 

### 573CB200

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- AJDG301
  - IOA
- 

### 573CB300

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (573D) Reference codes

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### 573D1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 573D3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- FI01101
  - ANYBRDG
- 

### 573D3006

**Explanation:** System bus error.

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

### 573D3020

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 573D3021

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 573D3022

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 573D3023

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 573D3100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 573D3101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 573D3102

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 573D3103 • 573D3200

- STORIOA
- FI01140
- DEVBPLN

---

### 573D3103

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 573D3120

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 573D3121

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 573D3122

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 573D3123

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 573D3140

**Explanation:** Bus is operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

### 573D3141

**Explanation:** Bus is operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

### 573D3142

**Explanation:** Bus is operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

### 573D3143

**Explanation:** Bus is operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

### 573D3150

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 573D3151

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

### 573D3200

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

**573D3202**

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**573D3400**

**Explanation:** Device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**573D3401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**573D3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**573D34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**573D3501**

**Explanation:** Licensed Internal Code error.

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**573D3601**

**Explanation:** System log entry only. No service action required.

---

**573D4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 573D4160 • 573D8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 573D4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 573D8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

### 573D8009

**Explanation:** Impending cache battery pack failure.

### Failing Item:

- CACHBAT

---

### 573D8100

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 573D8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action



is required. This reference code is logged for information only.

---

**573D8131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**573D8132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**573D8133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**573D8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**573D8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**573D8145**

**Explanation:** A recoverable error occurred.

**Failing Item:**

- STORIOA

---

**573D8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**573D8150**

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**573D8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**573D8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**573D8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**573D8157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 573D8300 • 573D9021

- SVCDOCS

---

### 573D8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

### 573D8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

### 573D8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

### 573D8400

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

### 573D8404

**Explanation:** System log entry only. No service action required.

---

### 573D9000

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

### 573D9001

**Explanation:** Device configuration error.

**Failing Item:**

- IOPIP33

---

### 573D9002

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

### 573D9008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25

---

### 573D9009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS

---

### 573D9010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31

---

### 573D9011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32

---

### 573D9020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

### 573D9021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

**573D9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**573D9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**573D9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**573D9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**573D9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**573D9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**573D9028**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

---

**573D9029**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**573D902F**

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

**573D9030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**573D9031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**573D9032**

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**573D9040**

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

---

573D9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH

---

573D9042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

573D9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

573D9051

**Explanation:** Cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

573D9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

573D9053

**Explanation:** IOA resources not available due to previous problems.

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

573D9054

**Explanation:** IOA resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

573D9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

573D9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

573D9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

---

573D9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

573D9082

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

---

**573D9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**573D9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**573D9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

---

**573D9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

**573D9902**

**Explanation:** System log entry only. No service action required.

---

**573D9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**573DC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**573DC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**573DC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**573DFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**573DFF6D**

**Explanation:** Recoverable system bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH



---

## (573E) Reference codes

---

### 573E1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 573E3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- FI01101
  - ANYBRDG
- 

### 573E3006

**Explanation:** System bus error.

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

### 573E3020

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 573E3021

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 573E3022

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 573E3023

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 573E3100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 573E3101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 573E3102

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 573E3103 • 573E3200

- STORIOA
- FI01140
- DEVBPLN

---

### 573E3103

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 573E3120

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 573E3121

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 573E3122

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 573E3123

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 573E3140

**Explanation:** Bus is operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

### 573E3141

**Explanation:** Bus is operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

### 573E3142

**Explanation:** Bus is operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

### 573E3143

**Explanation:** Bus is operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

### 573E3150

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 573E3151

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

### 573E3200

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- MEDIA



---

573E3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

## 573E3400

**Explanation:** Device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

## 573E3401

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

## 573E3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

## 573E34FF

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

573E3501

**Explanation:** Licensed Internal Code error.

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

## 573E3601

**Explanation:** System log entry only. No service action required.

---

573E4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 573E4160 • 573E8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 573E4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 573E8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

### 573E8009

**Explanation:** Impending cache battery pack failure.

### Failing Item:

- CACHBAT

---

### 573E8100

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 573E8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

**573E8131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**573E8132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**573E8133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**573E8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**573E8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**573E8145**

**Explanation:** A recoverable error occurred.

**Failing Item:**

- STORIOA

---

**573E8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**573E8150**

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**573E8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**573E8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**573E8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**573E8157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 573E8300 • 573E9021

- SVCDOCS

---

### 573E8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

### 573E8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

### 573E8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

### 573E8400

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

### 573E8404

**Explanation:** System log entry only. No service action required.

---

### 573E9000

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

### 573E9001

**Explanation:** Device configuration error.

**Failing Item:**

- IOPIP33

---

### 573E9002

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

### 573E9008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25

---

### 573E9009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS

---

### 573E9010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31

---

### 573E9011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32

---

### 573E9020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

### 573E9021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

**573E9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**573E9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**573E9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**573E9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**573E9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**573E9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**573E9028**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

---

**573E9029**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**573E902F**

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

**573E9030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**573E9031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**573E9032**

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**573E9040**

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

573E9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH
- 

573E9042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

573E9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30
- 

573E9051

**Explanation:** Cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

573E9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

573E9053

**Explanation:** IOA resources not available due to previous problems.

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

573E9054

**Explanation:** IOA resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

573E9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

573E9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

573E9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40
- 

573E9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

573E9082

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

---

**573E9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**573E9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**573E9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

---

**573E9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

**573E9902**

**Explanation:** System log entry only. No service action required.

---

**573E9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**573EC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**573EC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**573EC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**573EFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**573EFF6D**

**Explanation:** Recoverable system bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH





---

## (5746) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 57463000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 57463202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 57463400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 57469020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 57469100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 57469101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 57469102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 57469103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 57469104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 57469200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 57469201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**57469202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**57469210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**57469211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**57469220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**57469221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**57469300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**57469301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**57469302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**57469303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

57469304

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

## 57469310

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

## 57469320

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

## 57469321

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

## 57469350

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

57469351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

## 57469355

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

## 57469500

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

## 57469501

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

## 57469800

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**57469801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**57469802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**57469803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**57469804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**57469805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**57469806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**57469810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**57469899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**57469900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**57469901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**57469902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**57469903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**5746FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (574E) Reference codes

---

### 574E1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 574E3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 574E3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 574E3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 574E3140

**Explanation:** System log entry only. No service action required.

---

### 574E3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 574E3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 574E3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 574E3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 574E34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 574E3601

**Explanation:** System log entry only. No service action required.

---

### 574E4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 574E4020

## 574E4030 • 574E4160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 574E4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 574E4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 574E4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 574E4050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 574E4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 574E4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 574E4070

**Explanation:** System log entry only. No service action required.

---

### 574E4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 574E4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 574E4110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 574E4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 574E4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA



---

**574E70DD**

**Explanation:** Disrupt device command completed successfully.

---

**574E8008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**574E8009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

**574E8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**574E8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**574E8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**574E8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**574E8145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

**574E8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**574E8150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**574E8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**574E8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

574E8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

574E8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

574E8300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

574E8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**574E8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**574E8400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**574E8404**

**Explanation:** System log entry only. No service action required.

---

**574E9000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**574E9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**574E9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**574E9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**574E9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**574E9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**574E9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**574E9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**574E9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**574E9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**574E9024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**574E9025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

**574E9026**

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

**574E9027**

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

**574E9028**

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

**574E9029**

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**574E9030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

**574E9031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**574E9032**

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

**574E9040**

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

**574E9041**

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**574E9042**

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**574E9050**

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

**574E9051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**574E9052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

---

**Failing Item:**

- NEXTLVL

## 574E9054

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

## 574E9055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

## 574E9070

**Explanation:** System log entry only. No service action required.

## 574E9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

## 574E9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

## 574E9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

## 574E9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

## 574E9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

## 574E9076

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

## 574E9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

## 574E9082

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

## 574E9083

**Explanation:** System log entry only. No service action required.

## 574E9084

**Explanation:** System log entry only. No service action required.

## 574E9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

## 574E9091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 574E9092 • 574EFF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 574E9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 574E9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 574E9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 574EC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 574EC402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 574EFF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (574F) Reference codes

---

### 574F1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 574F3006

**Explanation:** System bus error.

**Failing Item:**

- AUXIOA
  - ANYBRDG
  - IOP
- 

### 574F3100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

### 574F3101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

### 574F3400

**Explanation:** SCSI resource error.

**Failing Item:**

- AUXCBL
  - PRIMIOA
- 

### 574F6075

**Explanation:** I/O processor resource not available.

**Failing Item:**

- PTFSRCH
- 

### 574F8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - AUXIOA
- 

### 574F8009

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

### 574F8130

**Explanation:** IOA detected recoverable SCSI bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

### 574F8131

**Explanation:** IOA detected recoverable SCSI bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

### 574F8140

**Explanation:** IOA detected recoverable SCSI bus error.

**Response:** No action is required. This reference code is logged for information only.

---

### 574F8141

**Explanation:** IOA detected recoverable SCSI resource error.

**Response:** No action is required. This reference code is logged for information only.

---

### 574F8145

## 574F8150 • 574F9072

**Explanation:** A recoverable error occurred.

**Failing Item:**

- AUXIOA
- 

### 574F8150

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
  - ANYBRDG
- 

### 574F8151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 574F8155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 574F8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 574F8157

**Explanation:** I/O adapter card temporary error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 574F8300

**Explanation:** IOA hardware or PCI bus error.

**Failing Item:**

- AUXIOA
  - ANYBRDG
  - PTFSRCH
- 

### 574F8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 574F8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - AUXIOA
- 

### 574F9055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

### 574F9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

### 574F9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---



---

**574F9073**

**Explanation:** Disconnected, incompatible, or non-operational storage IOA.

**Failing Item:**

- IOPIP41

---

**574FFF3D**

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- AUXIOA
- ANYBRDG



---

## (5755) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 57553000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 57553202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 57553400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 57559020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 57559100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 57559101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 57559102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 57559103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 57559104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 57559200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 57559201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**57559202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**57559210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**57559211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**57559220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**57559221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**57559300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**57559301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**57559302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**57559303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

57559304

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

## 57559310

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

## 57559320

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

## 57559321

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

## 57559350

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

57559351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

## 57559355

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

## 57559500

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

## 57559501

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

## 57559800

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

57559801

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 57559802

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 57559803

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 57559804

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 57559805

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 57559806

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 57559810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

## 57559899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

## 57559900

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

## 57559901

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

## 57559902

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

## 57559903

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

## 5755FFF6

**Explanation:** Tape volume statistics logged (no action required).





---

## (575B) Reference codes

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### 575B1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 575B3006

**Explanation:** System bus error.

**Failing Item:**

- AUXIOA
  - ANYBRDG
  - IOP
- 

### 575B3100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

### 575B3101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

### 575B3400

**Explanation:** SCSI resource error.

**Failing Item:**

- AUXCBL
  - PRIMIOA
- 

### 575B6075

**Explanation:** I/O processor resource not available.

**Failing Item:**

- PTFSRCH
- 

### 575B8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - AUXIOA
- 

### 575B8009

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

### 575B8130

**Explanation:** IOA detected recoverable SCSI bus error.

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

### 575B8131

**Explanation:** IOA detected recoverable SCSI bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

### 575B8140

**Explanation:** IOA detected recoverable SCSI bus error.

**Response:** No action is required. This reference code is logged for information only.

---

### 575B8141

**Explanation:** IOA detected recoverable SCSI resource error.

**Response:** No action is required. This reference code is logged for information only.

---

### 575B8145

## 575B8150 • 575B9072

**Explanation:** A recoverable error occurred.

**Failing Item:**

- AUXIOA
- 

### 575B8150

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
  - ANYBRDG
- 

### 575B8151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 575B8155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 575B8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 575B8157

**Explanation:** I/O adapter card temporary error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

### 575B8300

**Explanation:** IOA hardware or PCI bus error.

**Failing Item:**

- AUXIOA
  - ANYBRDG
  - PTFSRCH
- 

### 575B8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 575B8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - AUXIOA
- 

### 575B9055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

### 575B9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

### 575B9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

---

**575B9073**

**Explanation:** Disconnected, incompatible, or non-operational storage IOA.

**Failing Item:**

- IOPIP41

---

**575BFF3D**

**Explanation:** I/O adapter detected recoverable error.

**Failing Item:**

- AUXIOA
- ANYBRDG



---

## (575C) Reference codes

---

### 575C1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 575C3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- AUXIOA
  - PRIMIOA
  - BACKPLN
- 

### 575C3400

**Explanation:** Unknown resource error.

**Failing Item:**

- PRIMIOA
  - AUXIOA
  - BACKPLN
- 

### 575C4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

### 575C4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152
- 

### 575C4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

---

**Failing Item:**

- BACKPLN
  - AUXIOA
- 

### 575C4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - AUXIOA
- 

### 575C8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - AUXIOA
- 

### 575C8009

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

### 575C8100

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 575C8130

**Explanation:** I/O adapter detected recoverable bus error.

---

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

**575C8140**

**Explanation:** I/O adapter detected recoverable bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

**575C8150**

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
- ANYBRDG

**575C8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- AUXIOA

**575C8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- AUXIOA

**575C8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- AUXIOA

**575C8157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter.

**Failing Item:**

- SVCDOCS

**575C8300**

**Explanation:** IOA hardware or PCI bus error.

**Failing Item:**

- AUXIOA
- ANYBRDG
- PTFSRCH

**575C8301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- AUXIOA

**575C8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- AUXIOA

**575C9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**575C9071**

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

**575C9072**

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

**575C9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

**575C9076**

**Explanation:** Missing remote I/O adapter.

**Failing Item:**

- SIP3147
  - PRIMIOA
  - AUXIOA
  - BACKPLN
- 

**575CFF3D**

**Explanation:** I/O adapter detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- AUXIOA
- ANYBRDG





---

## (5767) Reference codes

---

### 5767A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDGP01
- 

### 5767B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDGP01



---

## (5768) Reference codes

---

5768A001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDGP01
- 

5768B9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDGP01



---

## (576A) Reference codes

---

576AA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

576AB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (576B) Reference codes

---

### 576B3020

**Explanation:** Configuration error on port 0.

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 576B3021

**Explanation:** Configuration error on port 1.

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 576B3100

**Explanation:** Interface error on port 0.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 576B3101

**Explanation:** Interface error on port 1.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 576B3120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
- 

- FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 576B3121

**Explanation:** An open port was detected on port 1.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 576B3140

**Explanation:** Port 0 is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 576B3141

**Explanation:** Port 1 is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

### 576B3400

**Explanation:** Device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 576B3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is

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logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 576B34FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

### 576B4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

### 576B8100

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 576B8130

**Explanation:** Recovered Fibre Channel interface error on port 0.

**Response:** No action required. This reference code is logged for information only.

---

### 576B8131

**Explanation:** Recovered Fibre Channel interface error on port 1.

**Response:** No action required. This reference code is logged for information only.

---

### 576B8150

**Explanation:** A permanent I/O adapter failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

### 576B8151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 576B8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

### 576B8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

### 576B8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN



---

**576B9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

**576B9903**

**Explanation:** Tape device information was logged.  
Informational event, no service required.

---

**576BB000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**576BB402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**576BC000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**576BC402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH



---

## (576C) Reference codes

---

### 576CA001

**Explanation:** Communications I/O adapter software error or failure configuring hardware.

**Failing Item:**

- NEXTLVL
- 

### 576CB940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - AJDGP01
  - MA\_BRDG
- 

### 576CB941

**Explanation:** One of the ports on the IOA has failed.

**Failing Item:**

- FI00719
- AJDGP01



---

## (576D) Reference codes

---

### 576DA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 576DB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301



---

## (576E) Reference codes

---

### 576EA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- 

### 576EB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- IOA
- AJDG301





---

## (576F) Reference codes

---

### 576FA001

**Explanation:** I/O adapter Licensed Internal Code error detected.

**Failing Item:**

- AJDGP01
- 

### 576FB9A0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

### 576FB9B0

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- AJDG301
- MA\_BRDG



---

## (5774) Reference codes

---

57743020

**Explanation:** Configuration error on port 0.

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

57743021

**Explanation:** Configuration error on port 1.

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

57743100

**Explanation:** Interface error on port 0.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57743101

**Explanation:** Interface error on port 1.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57743120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
- 

- FCIOA
  - FCDEV
  - OPT\_CLN
- 

57743121

**Explanation:** An open port was detected on port 1.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

57743140

**Explanation:** Port 0 is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

57743141

**Explanation:** Port 1 is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

57743400

**Explanation:** Device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57743405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is

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logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 577434FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

### 57744150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

### 57748100

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 57748130

**Explanation:** Recovered Fibre Channel interface error on port 0.

**Response:** No action required. This reference code is logged for information only.

---

### 57748131

**Explanation:** Recovered Fibre Channel interface error on port 1.

**Response:** No action required. This reference code is logged for information only.

---

### 57748150

**Explanation:** A permanent I/O adapter failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

### 57748151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 57748300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

### 57748301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

### 57748302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN

---

**57749500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

**57749903**

**Explanation:** Tape device information was logged.  
Informational event, no service required.

---

**5774B000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**5774B402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**5774C000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**5774C402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH



---

## (577D) Reference codes

---

### 577D3020

**Explanation:** Configuration error on port 0.

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 577D3021

**Explanation:** Configuration error on port 1.

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 577D3100

**Explanation:** Interface error on port 0.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 577D3101

**Explanation:** Interface error on port 1.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 577D3120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
- 

- FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 577D3121

**Explanation:** An open port was detected on port 1.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 577D3140

**Explanation:** Port 0 is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 577D3141

**Explanation:** Port 1 is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

### 577D3400

**Explanation:** Device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 577D3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is

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logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 577D34FF

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

### 577D4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

### 577D8100

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 577D8130

**Explanation:** Recovered Fibre Channel interface error on port 0.

**Response:** No action required. This reference code is logged for information only.

---

### 577D8131

**Explanation:** Recovered Fibre Channel interface error on port 1.

**Response:** No action required. This reference code is logged for information only.

---

### 577D8150

**Explanation:** A permanent I/O adapter failure occurred.

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

### 577D8151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- FCIOA

---

### 577D8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

### 577D8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

### 577D8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN



---

**577D9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

**577D9903**

**Explanation:** Tape device information was logged.  
Informational event, no service required.

---

**577DB000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**577DB402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**577DC000**

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**577DC402**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH



---

## (57B1) Reference codes

---

### 57B11310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57B13000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57B13020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 57B13100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 57B13140

**Explanation:** System log entry only. No service action required.

---

### 57B13202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 57B13400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 57B13401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 57B13405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 57B134FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57B13601

**Explanation:** System log entry only. No service action required.

---

### 57B14010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 57B14020

## 57B14030 • 57B14110

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B14030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B14040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B14041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B14050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57B14060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57B14061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B14070

**Explanation:** System log entry only. No service action required.

---

### 57B14080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

### 57B14085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

### 57B14100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57B14101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57B14110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

**57B14120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL
- 

**57B14121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57B14123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57B14150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57B14160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57B170DD**

**Explanation:** Disrupt device command completed successfully.

---

**57B18009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT
- 

**57B18100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B18130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B18140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B18141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57B18145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
-

---

**57B18146****Explanation:** Disk device detected recoverable error.**Failing Item:**

- FI01105
- 

**57B18150****Explanation:** A permanent failure occurred.**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57B18151****Explanation:** Licensed Internal Code error.**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B18155****Explanation:** A permanent failure occurred.**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B18156****Explanation:** A permanent failure occurred.**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B18157****Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager

to manually re-IPL the virtual I/O processor and Vary On attached resources.

- If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.
- Problem determination:** Perform the following:
1. Display the Service Action Log entry for this SRC.
  2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
    - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
    - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
    - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
  3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**57B18300****Explanation:** IOA hardware error or PCI bus error.**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion

unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.

5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

**57B18301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

**57B18302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

**57B18400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

**57B18404**

**Explanation:** System log entry only. No service action required.

**57B19000**

**Explanation:** Device error.

**Failing Item:**

- FI01105

- STORIOA

**57B19001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

**57B19002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

**57B19008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

**57B19010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120

**57B19011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL

**57B19020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

**57B19021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

**57B19022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

## 57B19023 • 57B19041

- SIP3111

---

### 57B19023

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112

---

### 57B19024

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL

---

### 57B19025

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

### 57B19026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

### 57B19027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

### 57B19028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

### 57B19029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### 57B19030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

### 57B19031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

### 57B19032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

### 57B19040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

### 57B19041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL



---

**57B19042**

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**57B19050**

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

**57B19051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57B19052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57B19054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57B19055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57B19070**

**Explanation:** System log entry only. No service action required.

---

**57B19071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57B19072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

**57B19073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

**57B19074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

**57B19075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149
- 

**57B19076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147
- 

**57B19081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57B19082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
-

---

57B19083

**Explanation:** System log entry only. No service action required.

---

57B19084

**Explanation:** System log entry only. No service action required.

---

57B19090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57B19091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57B19092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57B19500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57B19903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57B1C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57B1C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57B1FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (57B2) Reference codes

---

### 57B21310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57B23000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57B23020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 57B23100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 57B23140

**Explanation:** System log entry only. No service action required.

---

### 57B23202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 57B23400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 57B23401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 57B23405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 57B234FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57B23601

**Explanation:** System log entry only. No service action required.

---

### 57B24010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 57B24020

## 57B24030 • 57B24110

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B24030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B24040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B24041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B24050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57B24060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57B24061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B24070

**Explanation:** System log entry only. No service action required.

---

### 57B24080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

### 57B24085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

### 57B24100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57B24101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57B24110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

**57B24120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL
- 

**57B24121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57B24123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57B24150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57B24160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57B270DD**

**Explanation:** Disrupt device command completed successfully.

---

**57B28008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
  - FEATCRD
- 

**57B28009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT
- 

**57B28100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B28130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B28140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
-

---

**57B28141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57B28145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

**57B28146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**57B28150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57B28151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B28155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

---

**57B28156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B28157**

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

**57B28300**

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

**57B28301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

**57B28302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

**57B28400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

**57B28404**

**Explanation:** System log entry only. No service action required.

**57B29000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**57B29001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

**57B29002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

**57B29008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

**57B29010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120

---

**57B29011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**57B29020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57B29021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57B29022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57B29023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**57B29024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**57B29025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

---

**57B29026**

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

**57B29027**

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

**57B29028**

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

**57B29029**

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57B29030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

**57B29031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.



---

**57B29032**

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

**57B29040**

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

**57B29041**

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**57B29042**

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**57B29050**

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

**57B29051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57B29052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

---

**Failing Item:**

- NEXTLVL
- 

**57B29054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57B29055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57B29070**

**Explanation:** System log entry only. No service action required.

---

**57B29071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57B29072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

**57B29073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

**57B29074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

**57B29075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

---

57B29076

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

---

57B29081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

57B29082

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

57B29083

**Explanation:** System log entry only. No service action required.

---

57B29084

**Explanation:** System log entry only. No service action required.

---

57B29090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57B29091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57B29092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57B29500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57B29903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57B2C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57B2C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57B2FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (57B3) Reference codes

---

### 57B31310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57B33000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57B33020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 57B33100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 57B33140

**Explanation:** System log entry only. No service action required.

---

### 57B33202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 57B33400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 57B33401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 57B33405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 57B334FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57B33601

**Explanation:** System log entry only. No service action required.

---

### 57B34010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 57B34020

## 57B34030 • 57B34160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B34030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B34040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B34041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B34050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57B34060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57B34061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B34070

**Explanation:** System log entry only. No service action required.

---

### 57B34100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57B34101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57B34110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 57B34150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 57B34160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57B370DD**

**Explanation:** Disrupt device command completed successfully.

---

**57B38008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**57B38009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

**57B38100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57B38130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**57B38140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**57B38141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57B38145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

**57B38146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**57B38150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**57B38151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57B38155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57B38156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57B38157**

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

**57B38300**

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**57B38301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**57B38302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**57B38400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**57B38404**

**Explanation:** System log entry only. No service action required.

---

**57B39000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57B39001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**57B39002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**57B39008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**57B39010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**57B39011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**57B39020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57B39021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57B39022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57B39023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**57B39024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**57B39025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

57B39026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

57B39027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

57B39028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57B39029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57B39030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B39031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

---

57B39032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B39040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57B39041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B39042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B39050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

57B39051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

57B39052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.



**Failing Item:**

- NEXTLVL

**57B39054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

**57B39055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

**57B39070**

**Explanation:** System log entry only. No service action required.

**57B39071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

**57B39072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

**57B39073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

**57B39074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

**57B39075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

**57B39076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

**57B39081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**57B39082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**57B39083**

**Explanation:** System log entry only. No service action required.

**57B39084**

**Explanation:** System log entry only. No service action required.

**57B39090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57B39091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 57B39092 • 57B3FF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 57B39092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 57B39500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 57B39903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57B3C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57B3C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 57B3FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (57B4) Reference codes

---

### 57B41310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57B43000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 57B43020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150

---

### 57B43100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150

---

### 57B43140

**Explanation:** System log entry only. No service action required.

---

### 57B43202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 57B43400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

### 57B43401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57B43405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57B434FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57B43601

**Explanation:** System log entry only. No service action required.

---

### 57B44010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57B44020

## 57B44030 • 57B44110

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B44030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B44040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B44041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B44050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57B44060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57B44061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B44070

**Explanation:** System log entry only. No service action required.

---

### 57B44080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

### 57B44085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

### 57B44100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57B44101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57B44110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

**57B44120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL
- 

**57B44121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57B44123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57B44150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57B44160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57B470DD**

**Explanation:** Disrupt device command completed successfully.

---

**57B48009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT
- 

**57B48100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B48130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B48140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B48141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57B48145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
-

---

**57B48146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**57B48150**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57B48151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B48155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B48156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B48157**

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager

to manually re-IPL the virtual I/O processor and Vary On attached resources.

- If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.
- Problem determination:** Perform the following:
1. Display the Service Action Log entry for this SRC.
  2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
    - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
    - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
    - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
  3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**57B48300**

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion

unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.

5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

**57B48301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

**57B48302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

**57B48400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

**57B48404**

**Explanation:** System log entry only. No service action required.

**57B49000**

**Explanation:** Device error.

**Failing Item:**

- FI01105

- STORIOA

**57B49001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

**57B49002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

**57B49008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

**57B49010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120

**57B49011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL

**57B49020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

**57B49021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

**57B49022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

## 57B49023 • 57B49041

- SIP3111

---

### 57B49023

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112

---

### 57B49024

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL

---

### 57B49025

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

### 57B49026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

### 57B49027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

### 57B49028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

### 57B49029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### 57B49030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

### 57B49031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

### 57B49032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

### 57B49040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

### 57B49041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL



---

**57B49042**

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**57B49050**

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

**57B49051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57B49052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57B49054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57B49055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57B49070**

**Explanation:** System log entry only. No service action required.

---

**57B49071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57B49072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

**57B49073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

**57B49074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

**57B49075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149
- 

**57B49076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147
- 

**57B49081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57B49082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
-

---

57B49083

**Explanation:** System log entry only. No service action required.

---

57B49084

**Explanation:** System log entry only. No service action required.

---

57B49090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57B49091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57B49092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57B49500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57B49903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57B4C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57B4C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57B4FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (57B5) Reference codes

---

### 57B51310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57B53000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 57B53020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150

---

### 57B53100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150

---

### 57B53140

**Explanation:** System log entry only. No service action required.

---

### 57B53202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 57B53400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

### 57B53401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57B53405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57B534FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57B53601

**Explanation:** System log entry only. No service action required.

---

### 57B54010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57B54020

## 57B54030 • 57B54110

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B54030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B54040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B54041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B54050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57B54060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57B54061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B54070

**Explanation:** System log entry only. No service action required.

---

### 57B54080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

### 57B54085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

### 57B54100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57B54101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57B54110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

**57B54120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL
- 

**57B54121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57B54123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57B54150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57B54160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57B570DD**

**Explanation:** Disrupt device command completed successfully.

---

**57B58100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B58130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B58140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B58141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57B58145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

**57B58146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
-

---

57B58150

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57B58151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B58155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B58156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B58157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

57B58300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status.

Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.

6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**57B58301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57B58302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

**57B58400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

**57B58404**

**Explanation:** System log entry only. No service action required.

---

**57B59000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

**57B59001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

---

**57B59002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

---

**57B59008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

---

**57B59011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL

---

**57B59020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57B59021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57B59022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57B59023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112

---

57B59024

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL

---

57B59025

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

57B59026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

57B59027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

57B59028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57B59029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57B59030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

57B59031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57B59032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57B59040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57B59041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57B59042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL



---

**57B59050**

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

**57B59051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57B59052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57B59054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57B59055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57B59070**

**Explanation:** System log entry only. No service action required.

---

**57B59071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57B59072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

**57B59073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

**57B59074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

**57B59075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149
- 

**57B59076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147
- 

**57B59081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57B59082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57B59083**

**Explanation:** System log entry only. No service action required.

---

**57B59084**

**Explanation:** System log entry only. No service action required.

## 57B59090 • 57B5FF3D

---

### 57B59090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 57B59091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 57B59092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

### 57B59500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

### 57B59903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57B5C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

**818** System reference codes (1xxx - Axxx)

---

### 57B5C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

### 57B5FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (57B7) Reference codes

---

### 57B71310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57B73100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- AUXIOA
  - PRIMIOA
  - BACKPLN
- 

### 57B73400

**Explanation:** Unknown resource error.

**Failing Item:**

- PRIMIOA
  - AUXIOA
  - BACKPLN
- 

### 57B74100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

### 57B74101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152
- 

### 57B74150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

---

**Failing Item:**

- BACKPLN
  - AUXIOA
- 

### 57B74160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - AUXIOA
- 

### 57B78008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - AUXIOA
- 

### 57B78009

**Explanation:** Impending cache battery pack failure.

**Failing Item:**

- CACHBAT
- 

### 57B78100

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - AUXIOA
- 

### 57B78130

**Explanation:** I/O adapter detected recoverable bus error.

---

## 57B78140 • 57B79055

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

---

### 57B78140

**Explanation:** I/O adapter detected recoverable bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

---

### 57B78150

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
- ANYBRDG

---

### 57B78151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- AUXIOA

---

### 57B78155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- AUXIOA

---

### 57B78156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- AUXIOA

---

### 57B78157

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter.

**Failing Item:**

- SVCDOCS

---

### 57B78300

**Explanation:** IOA hardware or PCI bus error.

**Failing Item:**

- AUXIOA
- ANYBRDG
- PTFSRCH

---

### 57B78301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- AUXIOA

---

### 57B78302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- AUXIOA

---

### 57B79055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57B79071**

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

**57B79072**

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

**57B79073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

**57B79076**

**Explanation:** Missing remote I/O adapter.

**Failing Item:**

- SIP3147
  - PRIMIOA
  - AUXIOA
  - BACKPLN
- 

**57B7FF3D**

**Explanation:** I/O adapter detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- AUXIOA
- ANYBRDG



---

## (57B8) Reference codes

---

### 57B81310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57B83000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 57B83020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150

---

### 57B83100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150

---

### 57B83140

**Explanation:** System log entry only. No service action required.

---

### 57B83202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 57B83400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

### 57B83401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57B83405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57B834FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57B83601

**Explanation:** System log entry only. No service action required.

---

### 57B84010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57B84020

## 57B84030 • 57B84160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B84030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B84040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B84041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B84050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57B84060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57B84061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B84070

**Explanation:** System log entry only. No service action required.

---

### 57B84100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57B84101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57B84110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 57B84150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 57B84160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA



---

**57B870DD**

**Explanation:** Disrupt device command completed successfully.

---

**57B88008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
  - FEATCRD
- 

**57B88009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT
- 

**57B88100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B88130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B88140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B88141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57B88145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

**57B88146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**57B88150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57B88151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57B88155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

57B88156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B88157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

57B88300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

57B88301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**57B88302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**57B88400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**57B88404**

**Explanation:** System log entry only. No service action required.

---

**57B89000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57B89001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**57B89002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**57B89008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**57B89010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**57B89011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**57B89020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57B89021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57B89022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57B89023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**57B89024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**57B89025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

57B89026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

57B89027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

57B89028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57B89029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57B89030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B89031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

---

57B89032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B89040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57B89041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B89042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B89050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

57B89051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

57B89052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

---

**Failing Item:**

- NEXTLVL

**57B89054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

**57B89055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

**57B89070**

**Explanation:** System log entry only. No service action required.

**57B89071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

**57B89072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

**57B89073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

**57B89074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

**57B89075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

**57B89076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

**57B89081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**57B89082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**57B89083**

**Explanation:** System log entry only. No service action required.

**57B89084**

**Explanation:** System log entry only. No service action required.

**57B89090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57B89091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 57B89092 • 57B8FF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 57B89092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 57B89500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 57B89903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57B8C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57B8C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 57B8FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (57BB) Reference codes

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### 57BB1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57BB3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57BB3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 57BB3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 57BB3140

**Explanation:** System log entry only. No service action required.

---

### 57BB3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 57BB3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 57BB3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 57BB3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 57BB34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57BB3601

**Explanation:** System log entry only. No service action required.

---

### 57BB4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 57BB4020

## 57BB4030 • 57BB4110

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57BB4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57BB4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57BB4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57BB4050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57BB4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57BB4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57BB4070

**Explanation:** System log entry only. No service action required.

---

### 57BB4080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

### 57BB4085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

### 57BB4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57BB4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57BB4110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145



---

**57BB4120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL
- 

**57BB4121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57BB4123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57BB4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57BB4160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57BB70DD**

**Explanation:** Disrupt device command completed successfully.

---

**57BB8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57BB8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57BB8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57BB8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57BB8145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

**57BB8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
-

---

**57BB8150**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57BB8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57BB8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57BB8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57BB8157**

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**57BB8300**

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status.

Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.

- Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**57BB8301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57BB8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

**57BB8400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

**57BB8404**

**Explanation:** System log entry only. No service action required.

---

**57BB9000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

**57BB9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

---

**57BB9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

---

**57BB9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

---

**57BB9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL

---

**57BB9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57BB9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57BB9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57BB9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112

---

57BB9024

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL

---

57BB9025

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

57BB9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

57BB9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

57BB9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57BB9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57BB9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

57BB9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57BB9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57BB9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57BB9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57BB9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

**57BB9050**

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

**57BB9051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57BB9052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57BB9054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57BB9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57BB9070**

**Explanation:** System log entry only. No service action required.

---

**57BB9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57BB9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

**57BB9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

**57BB9074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Problem determination:** The 57BB storage adapter has been paired with another storage adapter that is not capable of similar functions or controlling the same set of devices. Cache on both adapters has been disabled. The adapters will run together without cache. To run with cache install compatible storage adapters.

**Failing Item:**

- SIP3141
- 

**57BB9075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149
- 

**57BB9076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147
- 

**57BB9081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57BB9082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57BB9083**

**Explanation:** System log entry only. No service action required.

---

57BB9084

**Explanation:** System log entry only. No service action required.

---

57BB9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57BB9091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57BB9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57BB9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57BB9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57BBC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57BBC402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57BBFF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (57C3) Reference codes

---

### 57C31310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57C31511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 57C31515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 57C31521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 57C31525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of

a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 57C33000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57C33002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

### 57C33020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 57C33100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150

---

57C33109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

57C33140

**Explanation:** System log entry only. No service action required.

---

57C33202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57C33400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

57C33401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

57C33405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.

- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

57C334FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

57C33601

**Explanation:** System log entry only. No service action required.

---

57C34010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

57C34020

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

57C34030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

57C34040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144



---

57C34041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146
- 

## 57C34050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148
- 

## 57C34060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
  - SASCABL
  - SASEXP
- 

## 57C34061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

57C34070

**Explanation:** System log entry only. No service action required.

---

57C34080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295
- 

## 57C34085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

---

**Failing Item:**

- NEXTLVL
- 

## 57C34100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

## 57C34101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152
- 

## 57C34102

**Explanation:** Internal device bus fabric performance degradation.

**Failing Item:**

- SIP3254
- 

## 57C34110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145
- 

## 57C34120

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL
- 

## 57C34121

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

## 57C34123

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

## 57C34150 • 57C376B4

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL

---

### 57C34150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 57C34160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 57C370DD

**Explanation:** Disrupt device command completed successfully.

---

### 57C37604

**Explanation:** A fatal error occurred on fan 16.

**Failing Item:**

- DISKFAN

---

### 57C37614

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN

---

### 57C37624

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN

---

### 57C37634

**Explanation:** A fatal error occurred on fan 3.

**Failing Item:**

- DISKFAN

---

### 57C37644

**Explanation:** A fatal error occurred on fan 4.

**Failing Item:**

- DISKFAN

---

### 57C37654

**Explanation:** A fatal error occurred on fan 5.

**Failing Item:**

- DISKFAN

---

### 57C37664

**Explanation:** A fatal error occurred on fan 6.

**Failing Item:**

- DISKFAN

---

### 57C37674

**Explanation:** A fatal error occurred on fan 7.

**Failing Item:**

- DISKFAN

---

### 57C37684

**Explanation:** A fatal error occurred on fan 8.

**Failing Item:**

- DISKFAN

---

### 57C37694

**Explanation:** A fatal error occurred on fan 9.

**Failing Item:**

- DISKFAN

---

### 57C376A4

**Explanation:** A fatal error occurred on fan 10.

**Failing Item:**

- DISKFAN

---

### 57C376B4

**Explanation:** A fatal error occurred on fan 11.

**Failing Item:**

- DISKFAN

---

**57C376C4**

**Explanation:** A fatal error occurred on fan 12.

**Failing Item:**

- DISKFAN
- 

**57C376D4**

**Explanation:** A fatal error occurred on fan 13.

**Failing Item:**

- DISKFAN
- 

**57C376E4**

**Explanation:** A fatal error occurred on fan 14.

**Failing Item:**

- DISKFAN
- 

**57C376F4**

**Explanation:** A fatal error occurred on fan 15.

**Failing Item:**

- DISKFAN
- 

**57C38100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57C38130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57C38140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

---

**57C38141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57C38145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

**57C38146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**57C38150**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57C38151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57C38155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57C38156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

57C38157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

57C38300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

57C38301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C38302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVDOCS
- STORIOA

---

**57C38400****Explanation:** Licensed Internal Code error.**Failing Item:**

- PTFSRCH

---

**57C38404****Explanation:** System log entry only. No service action required.

---

**57C39000****Explanation:** Device error.**Failing Item:**

- FI01105
- STORIOA

---

**57C39001****Explanation:** Device configuration error.**Failing Item:**

- NEXTLVL

---

**57C39002****Explanation:** Device error.**Failing Item:**

- NEXTLVL

---

**57C39008****Explanation:** I/O card does not support functions expected by devices.**Failing Item:**

- SIP3130

---

**57C39011****Explanation:** Cache data belongs to devices other than those attached.**Failing Item:**

- NEXTLVL

---

**57C39020****Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.**Failing Item:**

- SIP3111

---

**57C39021****Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.**Failing Item:**

- SIP3111

---

**57C39022****Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.**Failing Item:**

- SIP3111

---

**57C39023****Explanation:** One or more array members not in required physical locations.**Failing Item:**

- SIP3112

---

**57C39024****Explanation:** Array member physical location conflicts with another array.**Failing Item:**

- NEXTLVL

---

**57C39025****Explanation:** Incompatible device.**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.**Failing Item:**

- SIP3110
- FI02112

---

**57C39026****Explanation:** Disk unit not found at required physical location.**Response:** A previously exposed disk unit in an array was not found at the required physical location.**Failing Item:**

- NEXTLVL

---

**57C39027****Explanation:** Array not functional due to parity out of synchronization.**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

57C39028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57C39029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57C39030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

57C39031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57C39032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57C39040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57C39041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57C39042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57C39050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131

---

57C39051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132

---

57C39052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57C39054

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

---

57C39055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

57C39070

**Explanation:** System log entry only. No service action required.

---

57C39071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

57C39072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

57C39073

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

---

57C39074

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

---

57C39075

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

---

57C39076

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

---

57C39081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

57C39082

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

57C39083

**Explanation:** System log entry only. No service action required.

---

57C39084

**Explanation:** System log entry only. No service action required.

---

57C39090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C39091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C39092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

## 57C39500 • 57C3FFF4

---

### 57C39500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

### 57C39903

**Explanation:** Tape device information was logged.  
Informational event, no service required.

---

### 57C3C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57C3C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

### 57C3FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 57C3FFF4

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



---

## (57C4) Reference codes

---

### 57C41310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57C43000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57C43020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 57C43100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 57C43140

**Explanation:** System log entry only. No service action required.

---

### 57C43202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 57C43400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 57C43401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 57C43405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 57C434FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57C43601

**Explanation:** System log entry only. No service action required.

---

### 57C44010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 57C44020

## 57C44030 • 57C44110

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57C44030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57C44040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57C44041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57C44050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57C44060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57C44061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57C44070

**Explanation:** System log entry only. No service action required.

---

### 57C44080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

### 57C44085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

### 57C44100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57C44101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57C44110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

**57C44120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL
- 

**57C44121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57C44123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57C44150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57C44160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57C470DD**

**Explanation:** Disrupt device command completed successfully.

---

**57C48009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT
- 

**57C48100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57C48130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57C48140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57C48141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57C48145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
-

---

57C48146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

## 57C48150

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

## 57C48151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57C48155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57C48156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57C48157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager

to manually re-IPL the virtual I/O processor and Vary On attached resources.

- If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.
- Problem determination:** Perform the following:
1. Display the Service Action Log entry for this SRC.
  2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
    - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
    - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
    - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
  3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

## 57C48300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion

unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.

5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

**57C48301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

**57C48302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

**57C48400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

**57C48404**

**Explanation:** System log entry only. No service action required.

**57C49000**

**Explanation:** Device error.

**Failing Item:**

- FI01105

- STORIOA

**57C49001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

**57C49002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

**57C49008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

**57C49010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120

**57C49011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL

**57C49020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

**57C49021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

**57C49022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

57C49023

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112

---

57C49024

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL

---

57C49025

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

57C49026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

57C49027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

57C49028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57C49029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57C49030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

57C49031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57C49032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57C49040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57C49041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57C49042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

## 57C49050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

## 57C49051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

## 57C49052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

## 57C49054

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

## 57C49055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

## 57C49070

**Explanation:** System log entry only. No service action required.

---

## 57C49071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---



---

57C49072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

## 57C49073

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

## 57C49074

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

## 57C49075

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149
- 

## 57C49076

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147
- 

## 57C49081

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

## 57C49082

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
-

---

57C49083

**Explanation:** System log entry only. No service action required.

---

57C49084

**Explanation:** System log entry only. No service action required.

---

57C49090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C49091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C49092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57C49500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57C49903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57C4C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57C4C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57C4FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG



---

## (57C6) Reference codes

---

### 57C61310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57C63000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57C63020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 57C63100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 57C63140

**Explanation:** System log entry only. No service action required.

---

### 57C63202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 57C63400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 57C63401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 57C63405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 57C634FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57C63601

**Explanation:** System log entry only. No service action required.

---

### 57C64010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 57C64020

## 57C64030 • 57C64110

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57C64030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57C64040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57C64041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57C64050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57C64060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57C64061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57C64070

**Explanation:** System log entry only. No service action required.

---

### 57C64080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

### 57C64085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

### 57C64100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57C64101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57C64110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

**57C64120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL
- 

**57C64121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57C64123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57C64150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57C64160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57C670DD**

**Explanation:** Disrupt device command completed successfully.

---

**57C68008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
  - FEATCRD
- 

**57C68009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT
- 

**57C68100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57C68130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57C68140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
-

---

57C68141

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

57C68145

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

57C68146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

57C68150

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57C68151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C68155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C68156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C68157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

**57C68300****Explanation:** IOA hardware error or PCI bus error.**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**57C68301****Explanation:** Not valid condition in Licensed Internal Code.**Failing Item:**

- PTFSRCH
- STORIOA

---

**57C68302****Explanation:** Missing Licensed Internal Code.**Response:** Ensure that the code necessary to support this I/O adapter is loaded.**Failing Item:**

- SVCDOCS
- STORIOA

---

**57C68400****Explanation:** Licensed Internal Code error.**Failing Item:**

- PTFSRCH

---

**57C68404****Explanation:** System log entry only. No service action required.

---

**57C69000****Explanation:** Device error.**Failing Item:**

- FI01105
- STORIOA

---

**57C69001****Explanation:** Device configuration error.**Failing Item:**

- NEXTLVL

---

**57C69002****Explanation:** Device error.**Failing Item:**

- NEXTLVL

---

**57C69008****Explanation:** I/O card does not support functions expected by devices.**Failing Item:**

- SIP3130

---

**57C69010****Explanation:** Cache data associated with attached devices cannot be found.**Failing Item:**

- SIP3120

---

57C69011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

57C69020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

57C69021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

57C69022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

57C69023

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

57C69024

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

57C69025

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

---

57C69026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

57C69027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

57C69028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57C69029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57C69030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

57C69031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57C69032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

## 57C69040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

## 57C69041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

## 57C69042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

## 57C69050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

## 57C69051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

## 57C69052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

---

**Failing Item:**

- NEXTLVL
- 

## 57C69054

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

## 57C69055

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

## 57C69070

**Explanation:** System log entry only. No service action required.

---

## 57C69071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

## 57C69072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

## 57C69073

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

## 57C69074

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

## 57C69075

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149
-

---

57C69076

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

---

57C69081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

57C69082

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

57C69083

**Explanation:** System log entry only. No service action required.

---

57C69084

**Explanation:** System log entry only. No service action required.

---

57C69090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C69091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C69092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57C69500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57C69903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57C6C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57C6C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57C6FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG



---

## (57C7) Reference codes

---

### 57C71310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57C73000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57C73020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP4050
- 

### 57C73100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP4050
- 

### 57C73140

**Explanation:** System log entry only. No service action required.

---

### 57C73202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 57C73400

**Explanation:** Unknown resource error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card). When working the FRUs from the serviceable

event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4050
  - FI02112
  - STORIOA
  - SASCABL
- 

### 57C73401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 57C73405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.

## 57C734FF • 57C74101

- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57C734FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57C73601

**Explanation:** System log entry only. No service action required.

---

### 57C74010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57C74020

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57C74030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP4044

---

### 57C74040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP4044

---

### 57C74041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57C74050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57C74060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP4053
- SASCABL
- SASEXP

---

### 57C74061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57C74070

**Explanation:** System log entry only. No service action required.

---

### 57C74100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP4052
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57C74101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP4052

---

**57C74110**

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145
- 

**57C74150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57C74160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57C770DD**

**Explanation:** Disrupt device command completed successfully.

---

**57C78008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
  - FEATCRD
- 

---

**57C78009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT
- 

**57C78100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57C78130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

**57C78140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

**57C78141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57C78145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
-

---

57C78146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

## 57C78150

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

## 57C78151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57C78155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57C78156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57C78157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.

2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.

- LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
- If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
- If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.

3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

## 57C78300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.

3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

**57C78301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

**57C78302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

**57C78400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

**57C78404**

**Explanation:** System log entry only. No service action required.

**57C79000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**57C79001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

**57C79002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

**57C79008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

**57C79010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120

**57C79011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL

**57C79020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

57C79021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

57C79022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

57C79023

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112

---

57C79024

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL

---

57C79025

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

57C79026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

57C79027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

57C79028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57C79029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57C79030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

57C79031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57C79032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57C79040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

**57C79041**

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**57C79042**

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**57C79050**

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

**57C79051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57C79052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57C79054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57C79055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

---

**57C79070**

**Explanation:** System log entry only. No service action required.

---

**57C79071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57C79072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

**57C79073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP4040
- 

**57C79074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4041
- 

**57C79075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP4049
- 

**57C79076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP4047
- 

**57C79081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
-

---

57C79082

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

57C79083

**Explanation:** System log entry only. No service action required.

---

57C79084

**Explanation:** System log entry only. No service action required.

---

57C79090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C79091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C79092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57C79500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57C79903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57C7C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57C7C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57C7FF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (57CB) Reference codes

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### 57CB1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57CB3000

**Explanation:** A permanent failure occurred.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 57CB3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP4050

---

### 57CB3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP4050

---

### 57CB3140

**Explanation:** System log entry only. No service action required.

---

### 57CB3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 57CB3400

**Explanation:** Unknown resource error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

## 57CB3401 • 57CB4041

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SIP4050
- FI02112
- STORIOA
- SASCABL

---

### 57CB3401

**Explanation:** Device backplane problem.

### Failing Item:

- SASEXP
- DEVBPLN

---

### 57CB3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

### Failing Item:

- PTFSRCH

---

### 57CB34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57CB3601

**Explanation:** System log entry only. No service action required.

---

### 57CB4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

### Failing Item:

- SIP3142

---

### 57CB4020

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

### Failing Item:

- SIP3143

---

### 57CB4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

### Failing Item:

- SIP4044

---

### 57CB4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

### Failing Item:

- SIP4044

---

### 57CB4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

### Failing Item:

- SIP3146

---

**57CB4050**

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148
- 

**57CB4060**

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP4053
  - SASCABL
  - SASEXP
- 

**57CB4061**

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**57CB4070**

**Explanation:** System log entry only. No service action required.

---

**57CB4100**

**Explanation:** Device bus fabric error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4052
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

**57CB4101**

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP4052
- 

**57CB4110**

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145
- 

**57CB4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57CB4160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57CB70DD**

**Explanation:** Disrupt device command completed successfully.

---

**57CB8008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**57CB8009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

**57CB8100**

**Explanation:** Licensed Internal Code error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**57CB8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

**57CB8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

**57CB8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57CB8145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

**57CB8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

**57CB8150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57CB8151**

**Explanation:** Licensed Internal Code error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57CB8155**

**Explanation:** A permanent failure occurred.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item

STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57CB8156**

**Explanation:** A permanent failure occurred.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

## 57CB8157

- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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## 57CB8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.

- If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
- If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.

3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.



- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually re-IPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

### 57CB8300

**Explanation:** IOA hardware error or PCI bus error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.

- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

### 57CB8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

## 57CB8302 • 57CB9000

- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 57CB8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

### 57CB8400

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH

---

### 57CB8404

**Explanation:** System log entry only. No service action required.

---

### 57CB9000

**Explanation:** Device error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

**57CB9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

---

**57CB9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

---

**57CB9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

---

**57CB9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120

---

**57CB9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL

---

**57CB9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57CB9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57CB9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57CB9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112

---

**57CB9024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL

---

**57CB9025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical

location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

57CB9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

57CB9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

57CB9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57CB9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57CB9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

57CB9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57CB9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57CB9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57CB9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57CB9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57CB9050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131

---

**57CB9051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57CB9052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57CB9054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57CB9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57CB9070**

**Explanation:** System log entry only. No service action required.

---

**57CB9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57CB9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

**57CB9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP4040

---

**57CB9074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4041
- 

**57CB9075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP4049
- 

**57CB9076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP4047
- 

**57CB9081**

**Explanation:** Device error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

**57CB9082**

**Explanation:** Device error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item

list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

**57CB9083**

**Explanation:** System log entry only. No service action required.

**57CB9084**

**Explanation:** System log entry only. No service action required.

**57CB9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57CB9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**57CB9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

**57CB9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

**57CB9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**57CBC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**57CBC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**57CBFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





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## (57CC) Reference codes

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### 57CC1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57CC3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57CC3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 57CC3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150
- 

### 57CC3140

**Explanation:** System log entry only. No service action required.

---

### 57CC3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

### 57CC3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
  - FI02112
  - STORIOA
  - SASCABL
- 

### 57CC3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
  - DEVBPLN
- 

### 57CC3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 57CC34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57CC3601

**Explanation:** System log entry only. No service action required.

---

### 57CC4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142
- 

### 57CC4020

## 57CC4030 • 57CC4160

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57CC4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57CC4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57CC4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57CC4050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57CC4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57CC4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57CC4070

**Explanation:** System log entry only. No service action required.

---

### 57CC4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57CC4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57CC4110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

### 57CC4150

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

### 57CC4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57CC70DD**

**Explanation:** Disrupt device command completed successfully.

---

**57CC8008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**57CC8009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

**57CC8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57CC8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**57CC8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**57CC8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57CC8145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL

---

**57CC8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**57CC8150**

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**57CC8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57CC8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CC8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CC8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

57CC8300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.
6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

57CC8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

---

**57CC8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

**57CC8400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**57CC8404**

**Explanation:** System log entry only. No service action required.

---

**57CC9000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57CC9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL
- 

**57CC9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

**57CC9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

**57CC9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

---

**57CC9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

**57CC9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57CC9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57CC9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

**57CC9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

**57CC9024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

**57CC9025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
-

---

57CC9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

57CC9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

57CC9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57CC9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57CC9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

57CC9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57CC9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57CC9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57CC9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57CC9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57CC9050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131

---

57CC9051

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132

---

57CC9052

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

**57CC9054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121

**57CC9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

**57CC9070**

**Explanation:** System log entry only. No service action required.

**57CC9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

**57CC9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

**57CC9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

**57CC9074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

**57CC9075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

**57CC9076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

**57CC9081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**57CC9082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**57CC9083**

**Explanation:** System log entry only. No service action required.

**57CC9084**

**Explanation:** System log entry only. No service action required.

**57CC9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57CC9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

## 57CC9092 • 57CCFF3D

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 57CC9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134
- 

### 57CC9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 57CC9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57CCC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57CCC402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

### 57CCFF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG



---

## (57CD) Reference codes

---

### 57CD1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57CD1511

**Explanation:** A non-fatal error occurred on power supply 1.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 57CD1515

**Explanation:** A fatal error occurred on power supply 1.

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 57CD1521

**Explanation:** A non-fatal error occurred on power supply 2.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 57CD1525

**Explanation:** A fatal error occurred on power supply 2.

**Problem determination:** This SRC can be the result of

a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

### 57CD3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

### 57CD3002

**Explanation:** Addressed device backplane failed to respond to selection.

**Problem determination:** If there are multiple xxxx3002 reference codes logged from the same disk expansion unit at about the same time suspect an input power failure. Verify that input power to the expansion unit power supplies was active at the time of the error. If input power to the expansion unit failed the expansion unit was not able to log a reference code for the input power failure. Restore power to the expansion unit and close the xxxx3002 problems. Otherwise work the xxxx3002 reference codes.

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

### 57CD3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150
- 

### 57CD3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150

---

57CD3109

**Explanation:** I/O adapter timed out a device backplane command.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

57CD3140

**Explanation:** System log entry only. No service action required.

---

57CD3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57CD3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

57CD3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

57CD3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.

- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

57CD34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

57CD3601

**Explanation:** System log entry only. No service action required.

---

57CD4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

57CD4020

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

57CD4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

57CD4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

**57CD4041**

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146
- 

**57CD4050**

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148
- 

**57CD4060**

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
  - SASCABL
  - SASEXP
- 

**57CD4061**

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**57CD4070**

**Explanation:** System log entry only. No service action required.

---

**57CD4100**

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

**57CD4101**

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

**57CD4110**

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145
- 

**57CD4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57CD4160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57CD70DD**

**Explanation:** Disrupt device command completed successfully.

---

**57CD7614**

**Explanation:** A fatal error occurred on fan 1.

**Failing Item:**

- DISKFAN
- 

**57CD7624**

**Explanation:** A fatal error occurred on fan 2.

**Failing Item:**

- DISKFAN
- 

**57CD8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CD8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

## 57CD8140

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

## 57CD8141

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

## 57CD8145

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

## 57CD8146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

## 57CD8150

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

## 57CD8151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57CD8155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57CD8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57CD8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

---

**57CD8300****Explanation:** IOA hardware error or PCI bus error.**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status. Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.

6. Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**57CD8301****Explanation:** Not valid condition in Licensed Internal Code.**Failing Item:**

- PTFSRCH
- STORIOA

---

**57CD8302****Explanation:** Missing Licensed Internal Code.**Response:** Ensure that the code necessary to support this I/O adapter is loaded.**Failing Item:**

- SVCDOCS
- STORIOA

---

**57CD8400****Explanation:** Licensed Internal Code error.**Failing Item:**

- PTFSRCH

---

**57CD8404****Explanation:** System log entry only. No service action required.

---

**57CD9000****Explanation:** Device error.**Failing Item:**

- FI01105
- STORIOA

---

**57CD9001****Explanation:** Device configuration error.**Failing Item:**

- NEXTLVL

---

57CD9002

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL
- 

57CD9008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130
- 

57CD9010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120
- 

57CD9011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL
- 

57CD9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

57CD9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

57CD9022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111
- 

57CD9023

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112
- 

---

57CD9024

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL
- 

57CD9025

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

57CD9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

57CD9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113
- 

57CD9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57CD9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
-

---

**57CD9030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
  - FI02112
- 

**57CD9031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**57CD9032**

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

**57CD9040**

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

**57CD9041**

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**57CD9042**

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

---

**57CD9050**

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

**57CD9051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57CD9052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57CD9054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57CD9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57CD9070**

**Explanation:** System log entry only. No service action required.

---

**57CD9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57CD9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

---

57CD9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140

---

57CD9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

---

57CD9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149

---

57CD9076

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147

---

57CD9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

57CD9082

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

57CD9083

**Explanation:** System log entry only. No service action required.

---

57CD9084

**Explanation:** System log entry only. No service action required.

---

57CD9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57CD9091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57CD9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57CD9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57CD9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57CDC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.



---

**57CDC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**57CDFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**57CDFFF4**

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



---

## (57CE) Reference codes

---

### 57CE1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57CE3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 57CE3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP3150

---

### 57CE3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP3150

---

### 57CE3140

**Explanation:** System log entry only. No service action required.

---

### 57CE3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 57CE3400

**Explanation:** Unknown resource error.

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

### 57CE3401

**Explanation:** Device backplane problem.

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57CE3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57CE34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57CE3601

**Explanation:** System log entry only. No service action required.

---

### 57CE4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57CE4020

## 57CE4030 • 57CE4110

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57CE4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57CE4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57CE4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57CE4050

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148

---

### 57CE4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57CE4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57CE4070

**Explanation:** System log entry only. No service action required.

---

### 57CE4080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

### 57CE4085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

### 57CE4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

### 57CE4101

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP3152

---

### 57CE4110

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145

---

**57CE4120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL
- 

**57CE4121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57CE4123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57CE4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57CE4160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57CE70DD**

**Explanation:** Disrupt device command completed successfully.

---

**57CE8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

**57CE8130**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57CE8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57CE8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57CE8145**

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

**57CE8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
-

---

57CE8150

**Explanation:** A permanent failure occurred.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

## 57CE8151

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57CE8155

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57CE8156

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
  - STORIOA
- 

## 57CE8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
  - STORIOA
- 

## 57CE8300

**Explanation:** IOA hardware error or PCI bus error.

**Problem determination:** Perform the following:

1. Examine the location code of the adapter to determine if the adapter is in the system unit or an expansion unit. If the adapter is in an expansion unit, continue with the next step. Otherwise this ends the procedure.
2. If multiple storage adapters in the same expansion unit logged reference code xxxx8300 as a serviceable event at about the same time, continue with the next step. Otherwise this ends the procedure.
3. Suspect a problem with the connection to the enclosure. The problem may have been temporary while working on the unit or while working on the connection or cable(s) to the unit. If the adapter problems were created while working on the unit or working on the connection to the unit, go to step 5.
4. Search for problems logged at about the same time and call out the FRUs that connect the expansion unit to the system unit including the cable(s). Work those problems first, then return to the next step in this procedure.
5. Use Hardware Service Manager (HSM) to verify that the adapters have returned to operational status. Close reference code xxxx8300 problems for adapters that have returned to operational status.

Expansion units attached to system units using Light Path service indicators may have activated the FRU fault indicators for those adapters. Use the Service Action Log (SAL) to turn off the FRU fault indicators for adapters that have returned to operational status.

- Work reference code xxxx8300 problems for any adapters that have not returned to operational status. This ends the procedure.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

**57CE8301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

**57CE8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

**57CE8400**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

**57CE8404**

**Explanation:** System log entry only. No service action required.

**57CE9000**

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

**57CE9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

**57CE9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

**57CE9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

**57CE9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL

**57CE9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

**57CE9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

**57CE9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

**57CE9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112

---

57CE9024

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL

---

57CE9025

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

57CE9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

57CE9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

57CE9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57CE9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57CE9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

57CE9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57CE9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57CE9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57CE9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57CE9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL



---

**57CE9050**

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131
- 

**57CE9051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57CE9052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57CE9054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57CE9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57CE9070**

**Explanation:** System log entry only. No service action required.

---

**57CE9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57CE9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

**57CE9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP3140
- 

**57CE9074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

**57CE9075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP3149
- 

**57CE9076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP3147
- 

**57CE9081**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57CE9082**

**Explanation:** Device error.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57CE9083**

**Explanation:** System log entry only. No service action required.

---

**57CE9084**

**Explanation:** System log entry only. No service action required.

## 57CE9090 • 57CEFF3D

---

### 57CE9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 57CE9091

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 57CE9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

### 57CE9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

### 57CE9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57CEC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

**914** System reference codes (1xxx - Axxx)

---

### 57CEC402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

### 57CEFF3D

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
- ANYBRDG

---

## (57CF) Reference codes

---

### 57CF1310

**Explanation:** The I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57CF3000

**Explanation:** A permanent failure occurred.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 57CF3020

**Explanation:** Storage subsystem configuration error.

**Failing Item:**

- SIP4050

---

### 57CF3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- SIP4050

---

### 57CF3140

**Explanation:** System log entry only. No service action required.

---

### 57CF3202

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 57CF3400

**Explanation:** Unknown resource error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

## 57CF3401 • 57CF4041

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SIP4050
- FI02112
- STORIOA
- SASCABL

---

### 57CF3401

**Explanation:** Device backplane problem.

### Failing Item:

- SASEXP
- DEVBPLN

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### 57CF3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

### Failing Item:

- PTFSRCH

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### 57CF34FF

**Explanation:** Format in progress.

**Response:** No action required. This reference code is logged for information only.

---

### 57CF3601

**Explanation:** System log entry only. No service action required.

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### 57CF4010

**Explanation:** Configuration error.

**Response:** Incorrect connection between cascaded enclosures.

### Failing Item:

- SIP3142

---

### 57CF4020

**Explanation:** Configuration error.

**Response:** Number of connections exceed I/O adapter design limits.

### Failing Item:

- SIP3143

---

### 57CF4030

**Explanation:** Configuration error.

**Response:** Incorrect multipath connection.

### Failing Item:

- SIP4044

---

### 57CF4040

**Explanation:** Configuration error.

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

### Failing Item:

- SIP4044

---

### 57CF4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

### Failing Item:

- SIP3146

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**57CF4050**

**Explanation:** Enclosure does not support required multipath function.

**Failing Item:**

- SIP3148
- 

**57CF4060**

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP4053
  - SASCABL
  - SASEXP
- 

**57CF4061**

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**57CF4070**

**Explanation:** System log entry only. No service action required.

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**57CF4100**

**Explanation:** Device bus fabric error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4052
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

**57CF4101**

**Explanation:** Temporary device bus fabric error.

**Failing Item:**

- SIP4052
- 

**57CF4110**

**Explanation:** Unsupported enclosure function detected.

**Failing Item:**

- SIP3145
- 

**57CF4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57CF4160**

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57CF70DD**

**Explanation:** Disrupt device command completed successfully.

---

**57CF8008**

**Explanation:** A permanent failure has occurred in the cache battery pack or capacitive cache power card.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**57CF8009**

**Explanation:** Impending failure in the cache battery pack or capacitive cache power card.

**Failing Item:**

- CACHBAT

---

**57CF8100**

**Explanation:** Licensed Internal Code error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
  - STORIOA
-

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57CF8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

## 57CF8140

**Explanation:** IOA detected recoverable device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

## 57CF8141

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

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## 57CF8145

**Explanation:** Disk device detected recoverable error.

**Response:** This error is logged against the storage controller resource. Contact your next level of support to determine the part number and location code of the device.

**Failing Item:**

- NEXTLVL
- 

## 57CF8146

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105
- 

## 57CF8150

**Explanation:** A permanent failure occurred.

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

## 57CF8151

**Explanation:** Licensed Internal Code error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.



Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57CF8155**

**Explanation:** A permanent failure occurred.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item

STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57CF8156**

**Explanation:** A permanent failure occurred.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

## 57CF8157

- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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## 57CF8157

**Explanation:** I/O adapter card error. The actions and Failing Item list in the Service Action Log will vary based on the conditions this event was logged for.

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for. Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.

- If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
- If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.

3. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. Check the list below to determine if the adapter type you are replacing has multiple physical parts.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Problem determination:** Perform the following:

1. Display the Service Action Log entry for this SRC.
2. If the Failing Item indicates SVCDOCS, then continue with this step. Otherwise go to the next step. Do NOT replace the I/O adapter. This is a recoverable error.
  - LIC will automatically re-IPL the virtual I/O processor associated with the adapter. Other resources attached to the virtual I/O processor may need to be Varied On.
  - If the virtual I/O processor or adapter are not operational then use Hardware Service Manager to manually re-IPL the virtual I/O processor and Vary On attached resources.
  - If manually reIPL-ing the virtual I/O processor fails then contact your next level of support. This ends the procedure.
3. If the Failing Item indicates an I/O adapter, then contact your next level of support to replace the I/O adapter.

**Failing Item:**

- SVCDOCS
- STORIOA

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### 57CF8300

**Explanation:** IOA hardware error or PCI bus error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.

- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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### 57CF8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

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- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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### 57CF8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

### 57CF8400

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH

---

### 57CF8404

**Explanation:** System log entry only. No service action required.

---

### 57CF9000

**Explanation:** Device error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

**57CF9001**

**Explanation:** Device configuration error.

**Failing Item:**

- NEXTLVL

---

**57CF9002**

**Explanation:** Device error.

**Failing Item:**

- NEXTLVL

---

**57CF9008**

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- SIP3130

---

**57CF9010**

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- SIP3120

---

**57CF9011**

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- NEXTLVL

---

**57CF9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57CF9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57CF9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array.

**Failing Item:**

- SIP3111

---

**57CF9023**

**Explanation:** One or more array members not in required physical locations.

**Failing Item:**

- SIP3112

---

**57CF9024**

**Explanation:** Array member physical location conflicts with another array.

**Failing Item:**

- NEXTLVL

---

**57CF9025**

**Explanation:** Incompatible device.

**Response:** An incompatible device is at the physical

location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

57CF9026

**Explanation:** Disk unit not found at required physical location.

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

57CF9027

**Explanation:** Array not functional due to parity out of synchronization.

**Response:** Array is or would become exposed and parity data is out of synchronization.

**Failing Item:**

- SIP3113

---

57CF9028

**Explanation:** Maximum number of functional arrays has been exceeded.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57CF9029

**Explanation:** Maximum number of functional array members has been exceeded.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57CF9030

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- SIP3110
- FI02112

---

57CF9031

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57CF9032

**Explanation:** A disk unit in an array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57CF9040

**Explanation:** Re-synchronization of array parity was initiated.

**Response:** No action required.

---

57CF9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57CF9042

**Explanation:** Background parity check corrected errors on disk unit.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57CF9050

**Explanation:** Required cache data not found for one or more disk units.

**Failing Item:**

- SIP3131

---

**57CF9051**

**Explanation:** Cache data exists for one or more missing or failed devices.

**Failing Item:**

- SIP3132
- 

**57CF9052**

**Explanation:** Cache data exists for one or more modified devices.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57CF9054**

**Explanation:** IOA resources not available due to previous problems.

**Failing Item:**

- SIP3121
- 

**57CF9055**

**Explanation:** Write cache data is available for attached storage IOA.

**Response:** No service action required.

---

**57CF9070**

**Explanation:** System log entry only. No service action required.

---

**57CF9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational.

**Response:** No service action required.

---

**57CF9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational.

**Response:** No service action required.

---

**57CF9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Failing Item:**

- SIP4040

---

**57CF9074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration.

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4041
- 

**57CF9075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA.

**Failing Item:**

- SIP4049
- 

**57CF9076**

**Explanation:** Missing auxiliary IOA or remote IOA.

**Failing Item:**

- SIP4047
- 

**57CF9081**

**Explanation:** Device error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

**57CF9082**

**Explanation:** Device error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item

list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

**57CF9083**

**Explanation:** System log entry only. No service action required.

**57CF9084**

**Explanation:** System log entry only. No service action required.

**57CF9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57CF9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**



- SVCDOCS

---

**57CF9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

**57CF9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

**57CF9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**57CFC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**57CFC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**57CFFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.
- See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (failing item STORIOA) has two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.
- See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (57D3) Reference codes

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### 57D33000

**Explanation:** USB optical device information was logged. Informational event, no service required.

---

### 57D33002

**Explanation:** Unexpected USB device disconnect detected.

**Failing Item:**

- USB\_DEV

---

### 57D33010

**Explanation:** USB undefined device response.

**Failing Item:**

- USB\_DEV

---

### 57D33020

**Explanation:** USB configuration error. Too many USB devices are plugged. The internal device map is full.

**Problem determination:** Remove USB devices one at a time until the problem is resolved. In the Service Action Log (SAL) the location of the device that caused this error is listed with the FRU.

**Failing Item:**

- SVCDOCS
- USB\_DEV

---

### 57D33100

**Explanation:** USB device bus error.

**Failing Item:**

- USB\_CBL
- USB\_DEV
- USB\_IOA

---

### 57D331AX

**Explanation:** USB port over current error detected. The port location is listed in the serviceable event view with the "USBPORT" symbolic FRU. The logical port number is the last character of the URC.

**Problem determination:** USB port numbers start with '1' and are in the hexadecimal range of 1 through F for each USB port on an adapter.

For the USB port identified by the last digit of the URC, there is a problem with the power being drawn by the device. If the device is within operating

specifications it may work properly when plugged into another USB port or another USB adapter. If the device is moved to a different port and this error is logged against the port where the device is plugged then the device may be failing. Try moving the device to a different adapter.

If the device operates properly on another USB port or on another system then the problem is with the USB adapter or the adapter's USB port.

Remove the device on the port given in the location code of symbolic FRU "USBPORT" and look for a xxxx31By SRC to be logged where "xxxx" are the same characters as the first four characters of this SRC and 'y' is the same as the last character of this SRC.

- If the xxxx31By SRC is logged at about the same time that you removed the device then examine the location code of symbolic FRU "USBPORT" for the xxxx31By SRC. If the location code for "USBPORT" is the same as the adapter and port location called out by this SRC then the problem at this port has been corrected. The device may be failing. The device may function properly on another USB port or another system.
- If the xxxx31By SRC is not logged then work the failing item list in the serviceable event view or from the list below.

**Failing Item:**

- SVCDOCS
- USBPORT
- USB\_DEV
- USB\_IOA

---

### 57D331BX

**Explanation:** USB port over current error removed.

**Problem determination:** An over current condition that previously existed on this port has been resolved. The port is operating normally. The port location is listed with symbolic FRU "SVCDOCS" in the serviceable event view. The logical port number is the last character of the SRC.

**Failing Item:**

- SVCDOCS

---

### 57D33202

**Explanation:** USB optical device information was logged. Informational event, no service required.

---

### 57D33400

## 57D34150 • 57D3FFFE

**Explanation:** USB unknown device or unexpected device removal. If this SRC appears in a serviceable event view then it requires service. Otherwise no service is required.

**Problem determination:** Did this error occur during an IPL?

- Yes - The device may have been initializing when an access occurred. Reset / reload the adapter or retry the IPL. If the problem persists then the device is failing.
- No - The device is unknown or was unexpectedly removed.

**Failing Item:**

- USB\_DEV
- USB\_CBL

---

### 57D34150

**Explanation:** USB IOA hard PCI error.

**Failing Item:**

- USB\_IOA
- ANYBRDG

---

### 57D38100

**Explanation:** USB IOA manager program error.

**Failing Item:**

- AJDGP01

---

### 57D38150

**Explanation:** USB hard IOA or device hardware error.

**Failing Item:**

- USB\_DEV
- USB\_IOA

---

### 57D38300

**Explanation:** USB IOA hardware error, IOA reset issued.

**Failing Item:**

- USB\_IOA

---

### 57D38301

**Explanation:** USB program error.

**Failing Item:**

- AJDGP01

---

### 57D38303

**Explanation:** USB port enumerator error.

**Failing Item:**

- AJDGP01
- USB\_IOA

---

### 57D3C000

**Explanation:** USB optical device information was logged. Informational event, no service required.

---

### 57D3C402

**Explanation:** USB optical device LIC information was logged. Informational event, no service required.

---

### 57D3FF3D

**Explanation:** USB optical device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

---

### 57D3FFF3

**Explanation:** USB media format corrupted.

**Failing Item:**

- MEDIA
- USB\_DEV

---

### 57D3FFF4

**Explanation:** USB internal device error.

**Failing Item:**

- USB\_DEV

---

### 57D3FFFE

**Explanation:** USB temporary bus error.

---

## (57D4) Reference codes

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### 57D4A001

**Explanation:** Communications I/O adapter software error or failure configuring hardware.

**Failing Item:**

- NEXTLVL
- 

### 57D4B940

**Explanation:** I/O adapter hardware error detected.

**Problem determination:** View the error details in the the product activity log. If the card type is 57D2 and the secondary code is 00004009 or 4009, the adapter is in a physical location that does not support the adapter type. Move the adapter to a physical location that supports the adapter type. Otherwise, continue with the next failing item in the failing item list.

**Failing Item:**

- FI00719
  - AJDGP01
  - MA\_BRDG
- 

### 57D4B941

**Explanation:** One of the ports on the IOA has failed.

**Failing Item:**

- FI00719
- AJDGP01



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## (57FC) Reference codes

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### 57FC3020

**Explanation:** Configuration error on port 0.

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 57FC3021

**Explanation:** Configuration error on port 1.

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 57FC3022

**Explanation:** Configuration error on port 2.

**Response:** Too many devices have been configured on port 2. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 57FC3023

**Explanation:** Configuration error on port 3.

**Response:** Too many devices have been configured on port 3. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 57FC3100

**Explanation:** Interface error on port 0.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 57FC3101

**Explanation:** Interface error on port 1.

**Failing Item:**

- FCINTF
- ANYFC

- FCIOA
  - OPT\_CLN
- 

### 57FC3102

**Explanation:** Interface error on port 2.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 57FC3103

**Explanation:** Interface error on port 3.

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 57FC3120

**Explanation:** An open port was detected on port 0.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 57FC3121

**Explanation:** An open port was detected on port 1.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.

## 57FC3122 • 57FC3405

3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 57FC3122

**Explanation:** An open port was detected on port 2.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 57FC3123

**Explanation:** An open port was detected on port 3.

**Problem determination:** Perform the following steps:

1. Check for a missing cable or wrap connector.
2. This error can occur when a shared device is being moved from one LPAR to another LPAR and the port was left open.
3. This error can occur if there is a port or link failure. If you have eliminated the above possibilities contact your next level of support.

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

### 57FC3140

**Explanation:** Port 0 is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 57FC3141

**Explanation:** Port 1 is now operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

### 57FC3142

**Explanation:** Port 2 is now operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since the port is now operational.

---

### 57FC3143

**Explanation:** Port 3 is now operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since the port is now operational.

---

### 57FC3400

**Explanation:** Device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 57FC3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
-



---

**57FC34FF**

**Explanation:** Format in progress.

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

**57FC4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
  - FCIOA
- 

**57FC8100**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - FCIOA
- 

**57FC8130**

**Explanation:** Recovered Fibre Channel interface error on port 0.

**Response:** No action required. This reference code is logged for information only.

---

**57FC8131**

**Explanation:** Recovered Fibre Channel interface error on port 1.

**Response:** No action required. This reference code is logged for information only.

---

**57FC8132**

**Explanation:** Recovered Fibre Channel interface error on port 2.

**Response:** No action required. This reference code is logged for information only.

---

**57FC8133**

**Explanation:** Recovered Fibre Channel interface error on port 3.

**Response:** No action required. This reference code is logged for information only.

---

---

**57FC8150**

**Explanation:** A permanent I/O adapter failure occurred.

**Failing Item:**

- FCIOA
  - ANYBRDG
  - OPT\_CLN
- 

**57FC8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
  - FCIOA
- 

**57FC8300**

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- FCIOA
  - ANYBRDG
  - PTFSRCH
  - OPT\_CLN
- 

**57FC8301**

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
  - FCIOA
  - OPT\_CLN
- 

**57FC8302**

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
  - FCIOA
  - OPT\_CLN
- 

**57FC9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
-

## 57FC9903 • 57FCC402

---

### 57FC9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57FCB000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57FCB402

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

### 57FCC000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57FCC402

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

## (57FE) Reference codes

---

### 57FE3000

**Explanation:** USB optical device information was logged. Informational event, no service required.

---

### 57FE3002

**Explanation:** Unexpected USB device disconnect detected.

**Failing Item:**

- USB\_DEV

---

### 57FE3010

**Explanation:** USB undefined device response.

**Failing Item:**

- USB\_DEV

---

### 57FE3020

**Explanation:** USB configuration error. Too many USB devices are plugged. The internal device map is full.

**Problem determination:** Remove USB devices one at a time until the problem is resolved. In the Service Action Log (SAL) the location of the device that caused this error is listed with the FRU.

**Failing Item:**

- SVCDOCS
- USB\_DEV

---

### 57FE3100

**Explanation:** USB device bus error.

**Failing Item:**

- USB\_CBL
- USB\_DEV
- USB\_IOA

---

### 57FE31AX

**Explanation:** USB port over current error detected. The port location is listed in the serviceable event view with the "USBPORT" symbolic FRU. The logical port number is the last character of the URC.

**Problem determination:** USB port numbers start with '1' and are in the hexadecimal range of 1 through F for each USB port on an adapter.

For the USB port identified by the last digit of the URC, there is a problem with the power being drawn by the device. If the device is within operating

specifications it may work properly when plugged into another USB port or another USB adapter. If the device is moved to a different port and this error is logged against the port where the device is plugged then the device may be failing. Try moving the device to a different adapter.

If the device operates properly on another USB port or on another system then the problem is with the USB adapter or the adapter's USB port.

Remove the device on the port given in the location code of symbolic FRU "USBPORT" and look for a xxxx31By SRC to be logged where "xxxx" are the same characters as the first four characters of this SRC and 'y' is the same as the last character of this SRC.

- If the xxxx31By SRC is logged at about the same time that you removed the device then examine the location code of symbolic FRU "USBPORT" for the xxxx31By SRC. If the location code for "USBPORT" is the same as the adapter and port location called out by this SRC then the problem at this port has been corrected. The device may be failing. The device may function properly on another USB port or another system.
- If the xxxx31By SRC is not logged then work the failing item list in the serviceable event view or from the list below.

**Failing Item:**

- SVCDOCS
- USBPORT
- USB\_DEV
- USB\_IOA

---

### 57FE31BX

**Explanation:** USB port over current error removed.

**Problem determination:** An over current condition that previously existed on this port has been resolved. The port is operating normally. The port location is listed with symbolic FRU "SVCDOCS" in the serviceable event view. The logical port number is the last character of the SRC.

**Failing Item:**

- SVCDOCS

---

### 57FE3202

**Explanation:** USB optical device information was logged. Informational event, no service required.

---

### 57FE3400

## 57FE4150 • 57FEFFFE

**Explanation:** USB unknown device or unexpected device removal. If this SRC appears in a serviceable event view then it requires service. Otherwise no service is required.

**Problem determination:** Did this error occur during an IPL?

- Yes - The device may have been initializing when an access occurred. Reset / reload the adapter or retry the IPL. If the problem persists then the device is failing.
- No - The device is unknown or was unexpectedly removed.

**Failing Item:**

- USB\_DEV
- USB\_CBL

---

### 57FE4150

**Explanation:** USB IOA hard PCI error.

**Failing Item:**

- USB\_IOA
- ANYBRDG

---

### 57FE8100

**Explanation:** USB IOA manager program error.

**Failing Item:**

- AJDGP01

---

### 57FE8150

**Explanation:** USB hard IOA or device hardware error.

**Failing Item:**

- USB\_DEV
- USB\_IOA

---

### 57FE8300

**Explanation:** USB IOA hardware error, IOA reset issued.

**Failing Item:**

- USB\_IOA

---

### 57FE8301

**Explanation:** USB program error.

**Failing Item:**

- AJDGP01

---

### 57FE8303

**Explanation:** USB port enumerator error.

**Failing Item:**

- AJDGP01
- USB\_IOA

---

### 57FEC000

**Explanation:** USB optical device information was logged. Informational event, no service required.

---

### 57FEC402

**Explanation:** USB optical device LIC information was logged. Informational event, no service required.

---

### 57FEFF3D

**Explanation:** USB optical device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

---

### 57FEFFF3

**Explanation:** USB media format corrupted.

**Failing Item:**

- MEDIA
- USB\_DEV

---

### 57FEFFF4

**Explanation:** USB internal device error.

**Failing Item:**

- USB\_DEV

---

### 57FEFFFE

**Explanation:** USB temporary bus error.

---

## (57FF) Reference codes

---

### 57FF1310

**Explanation:** I/O adapter resource not available.

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 57FF3000

**Explanation:** A permanent failure occurred.

**Failing Item:**

- FI01101
  - ANYBRDG
- 

### 57FF3006

**Explanation:** System bus error.

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

### 57FF3020

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57FF3021

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57FF3022

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57FF3023

**Explanation:** SCSI bus configuration error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

### 57FF3100

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 57FF3101

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

### 57FF3102

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 57FF3103 • 57FF3200

- STORIOA
- FI01140
- DEVBPLN

---

### 57FF3103

**Explanation:** Interface error.

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

### 57FF3120

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57FF3121

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57FF3122

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57FF3123

**Explanation:** Bus is not operational.

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 57FF3140

**Explanation:** Bus is operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

### 57FF3141

**Explanation:** Bus is operational.

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

### 57FF3142

**Explanation:** Bus is operational.

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

### 57FF3143

**Explanation:** Bus is operational.

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

### 57FF3150

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 57FF3151

**Explanation:** SCSI bus configuration error.

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

### 57FF3200

**Explanation:** A tape/CD or disk device reported a failure.

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

**57FF3202**

**Explanation:** Storage subsystem configuration error.

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**57FF3400**

**Explanation:** Device error.

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**57FF3401**

**Explanation:** Device backplane problem.

**Failing Item:**

- DEVBPLN
- 

**57FF3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**57FF34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**57FF3501**

**Explanation:** Licensed Internal Code error.

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**57FF3601**

**Explanation:** System log entry only. No service action required.

---

**57FF4150**

**Explanation:** I/O adapter detected PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 57FF4160 • 57FF8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57FF4160

**Explanation:** I/O adapter detected and recovered a PCI bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57FF8008

**Explanation:** A permanent cache battery pack failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

### 57FF8009

**Explanation:** Impending cache battery pack failure.

### Failing Item:

- CACHBAT

---

### 57FF8100

**Explanation:** Licensed Internal Code error.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 57FF8130

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 0. No action



is required. This reference code is logged for information only.

---

**57FF8131**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**57FF8132**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**57FF8133**

**Explanation:** IOA detected recoverable device bus error.

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**57FF8140**

**Explanation:** IOA detected recoverable device bus error.

**Response:** No action is required. This reference code is logged for information only.

---

**57FF8141**

**Explanation:** IOA detected recoverable device error.

**Response:** No action is required. This reference code is logged for information only.

---

**57FF8145**

**Explanation:** A recoverable error occurred.

**Failing Item:**

- STORIOA

---

**57FF8146**

**Explanation:** Disk device detected recoverable error.

**Failing Item:**

- FI01105

---

**57FF8150**

**Explanation:** A permanent failure occurred.

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**57FF8151**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57FF8155**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57FF8156**

**Explanation:** A permanent failure occurred.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57FF8157**

**Explanation:** I/O adapter card error.

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 57FF8300 • 57FF9021

- SVCDOCS

---

### 57FF8300

**Explanation:** IOA hardware error or PCI bus error.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

### 57FF8301

**Explanation:** Not valid condition in Licensed Internal Code.

**Failing Item:**

- PTFSRCH
- STORIOA

---

### 57FF8302

**Explanation:** Missing Licensed Internal Code.

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

### 57FF8400

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH

---

### 57FF8404

**Explanation:** System log entry only. No service action required.

---

### 57FF9000

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

### 57FF9001

**Explanation:** Device configuration error.

**Failing Item:**

- IOPIP33

---

### 57FF9002

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

### 57FF9008

**Explanation:** I/O card does not support functions expected by devices.

**Failing Item:**

- IOPIP25

---

### 57FF9009

**Explanation:** Call your next level of support for assistance.

**Failing Item:**

- SVCDOCS

---

### 57FF9010

**Explanation:** Cache data associated with attached devices cannot be found.

**Failing Item:**

- IOPIP31

---

### 57FF9011

**Explanation:** Cache data belongs to devices other than those attached.

**Failing Item:**

- IOPIP32

---

### 57FF9020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

### 57FF9021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

**57FF9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**57FF9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**57FF9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**57FF9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**57FF9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**57FF9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**57FF9028**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

---

**57FF9029**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**57FF902F**

**Explanation:** Array addendum Product Activity Log entry.

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

**57FF9030**

**Explanation:** Array no longer protected due to missing or failed disk unit.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**57FF9031**

**Explanation:** Automatic rebuild initiated for array.

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**57FF9032**

**Explanation:** A disk unit in a RAID array is missing or failed.

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

**57FF9040**

**Explanation:** Array protection temporarily suspended.

**Response:** No action required. Protection will be automatically restarted.

---

57FF9041

**Explanation:** Background array parity check detected and corrected errors.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH

---

57FF9042

**Explanation:** An array parity error has been detected and corrected.

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57FF9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

57FF9051

**Explanation:** Cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

57FF9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57FF9053

**Explanation:** IOA resources not available due to previous problems.

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

57FF9054

**Explanation:** IOA resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

57FF9070

**Explanation:** System log entry only. No service action required.

---

57FF9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational.

**Response:** No service action required.

---

57FF9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational.

**Response:** No service action required.

---

57FF9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached.

**Failing Item:**

- IOPIP40

---

57FF9081

**Explanation:** Device error.

**Failing Item:**

- FI01105
- STORIOA

---

**57FF9082**

**Explanation:** Device error.

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**57FF9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**57FF9091**

**Explanation:** Incorrect hardware configuration change detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**57FF9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**57FF9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

---

**57FF9902**

**Explanation:** System log entry only. No service action required.

---

**57FF9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**57FFC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**57FFC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**57FFC402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

**57FFFF3D**

**Explanation:** I/O adapter detected a recoverable error.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57FFFF6D**

**Explanation:** Recoverable system bus error.

**Failing Item:**

- STORIOA
  - ANYBRDG
  - PTFSRCH
-



---

## (58B0) Reference codes

---

### 58B0102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 58B03002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 58B03010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B03020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 58B03029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 58B03100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 58B03109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B0310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 58B0310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 58B03110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B03130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 58B034FF

**Explanation:** Format in progress.

---

## 58B04041 • 58B0FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 58B04041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 58B04060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 58B04061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 58B04100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 58B07000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 58B07001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B070DD

**Explanation:** System log entry only, no service action required.

---

### 58B0FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 58B0FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 58B0FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B0FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B0FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B0FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B0FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B0FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**58B0FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B0FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B0FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58B2) Reference codes

---

### 58B2102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 58B23002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 58B23010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B23020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 58B23029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 58B23100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 58B23109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B2310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58B2310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58B23110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B23130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 58B234FF

**Explanation:** Format in progress.

## 58B24041 • 58B2FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 58B24041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 58B24060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 58B24061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 58B24100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 58B27000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 58B27001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B270DD

**Explanation:** System log entry only, no service action required.

---

### 58B2FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 58B2FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 58B2FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B2FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B2FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B2FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B2FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B2FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**58B2FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B2FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B2FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58B3) Reference codes

---

### 58B3102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 58B33002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 58B33010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B33020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 58B33029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 58B33100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 58B33109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B3310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 58B3310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 58B33110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B33130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 58B334FF

**Explanation:** Format in progress.

---

## 58B34041 • 58B3FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 58B34041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 58B34060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 58B34061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 58B34100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 58B37000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 58B37001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B370DD

**Explanation:** System log entry only, no service action required.

---

### 58B3FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 58B3FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 58B3FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B3FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B3FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B3FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B3FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B3FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**58B3FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B3FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B3FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58B4) Reference codes

---

### 58B4102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 58B43002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 58B43010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B43020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 58B43029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 58B43100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 58B43109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B4310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58B4310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58B43110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B43130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 58B434FF

**Explanation:** Format in progress.

## 58B44041 • 58B4FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 58B44041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 58B44060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 58B44061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 58B44100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 58B47000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 58B47001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B470DD

**Explanation:** System log entry only, no service action required.

---

### 58B4FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 58B4FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 58B4FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B4FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B4FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B4FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B4FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B4FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**58B4FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B4FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B4FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58B5) Reference codes

---

### 58B5102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 58B53002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 58B53010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B53020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 58B53029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 58B53100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 58B53109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B5310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 58B5310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 58B53110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B53130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 58B534FF

**Explanation:** Format in progress.

---

## 58B54041 • 58B5FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 58B54041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 58B54060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 58B54061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 58B54100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 58B57000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 58B57001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B570DD

**Explanation:** System log entry only, no service action required.

---

### 58B5FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 58B5FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 58B5FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B5FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B5FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B5FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B5FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B5FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**58B5FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B5FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B5FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58B6) Reference codes

---

### 58B6102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 58B63002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 58B63010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B63020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 58B63029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 58B63100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 58B63109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B6310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58B6310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58B63110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B63130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 58B634FF

**Explanation:** Format in progress.

## 58B64041 • 58B6FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 58B64041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 58B64060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 58B64061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 58B64100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 58B67000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 58B67001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B670DD

**Explanation:** System log entry only, no service action required.

---

### 58B6FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 58B6FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 58B6FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B6FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B6FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B6FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B6FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B6FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**58B6FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B6FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B6FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58B8) Reference codes

---

### 58B8102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 58B83002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 58B83010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B83020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 58B83029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 58B83100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 58B83109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B8310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 58B8310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 58B83110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 58B83130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 58B834FF

**Explanation:** Format in progress.

---

## 58B84041 • 58B8FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 58B84041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 58B84060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 58B84061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 58B84100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 58B87000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 58B87001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B870DD

**Explanation:** System log entry only, no service action required.

---

### 58B8FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 58B8FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 58B8FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B8FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B8FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B8FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B8FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B8FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**58B8FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B8FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B8FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58B9) Reference codes

---

### 58B9102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 58B93002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 58B93010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B93020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 58B93029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 58B93100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 58B93109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B9310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58B9310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58B93110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58B93130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 58B934FF

**Explanation:** Format in progress.

## 58B94041 • 58B9FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 58B94041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 58B94060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 58B94061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 58B94100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 58B97000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 58B97001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B970DD

**Explanation:** System log entry only, no service action required.

---

### 58B9FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 58B9FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 58B9FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B9FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B9FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58B9FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B9FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B9FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**58B9FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B9FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B9FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58BB) Reference codes

---

### 58BB102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 58BB3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 58BB3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58BB3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 58BB3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 58BB3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 58BB3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58BB310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58BB310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 58BB3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 58BB3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 58BB34FF

**Explanation:** Format in progress.

## 58BB4041 • 58BBFFF9

**Response:** No action required. This reference code is logged for information only.

---

### 58BB4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 58BB4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 58BB4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 58BB4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 58BB7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 58BB7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58BB70DD

**Explanation:** System log entry only, no service action required.

---

### 58BBFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 58BBFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 58BBFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58BBFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58BBFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 58BBFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58BBFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58BBFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**58BBFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58BBFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58BBFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (5907) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 59073000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 59073202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 59073400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 59079020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 59079100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 59079101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 59079102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 59079103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 59079104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 59079200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 59079201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**59079202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**59079210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**59079211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**59079220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**59079221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59079300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**59079301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**59079302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**59079303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

59079304

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

## 59079310

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

## 59079320

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

## 59079321

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

## 59079350

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

59079351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

## 59079355

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

## 59079500

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

## 59079501

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

## 59079800

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

59079801

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

59079802

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

59079803

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

59079804

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

59079805

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

59079806

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

59079810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

59079899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

59079900

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

59079901

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

59079902

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

59079903

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

5907FFF6

**Explanation:** Tape volume statistics logged (no action required).





---

## (59C0) Reference codes

---

### 59C0102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59C03002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59C03010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59C03020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59C03029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59C03100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59C03109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59C0310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59C0310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59C03110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59C03130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59C034FF

**Explanation:** Format in progress.

## 59C04041 • 59C0FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59C04041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59C04060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59C04061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59C04100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59C07000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59C07001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C070DD

**Explanation:** System log entry only, no service action required.

---

### 59C0FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59C0FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59C0FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C0FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C0FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C0FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59C0FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59C0FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59C0FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59C0FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59C0FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (59C2) Reference codes

---

### 59C2102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 59C23002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 59C23010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 59C23020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 59C23029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59C23100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 59C23109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 59C2310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 59C2310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 59C23110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 59C23130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 59C234FF

**Explanation:** Format in progress.

---

## 59C24041 • 59C2FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59C24041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59C24060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59C24061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59C24100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59C27000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59C27001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C270DD

**Explanation:** System log entry only, no service action required.

---

### 59C2FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59C2FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59C2FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C2FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C2FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C2FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59C2FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59C2FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59C2FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59C2FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59C2FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (59C8) Reference codes

---

### 59C8102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59C83002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59C83010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59C83020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59C83029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59C83100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59C83109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59C8310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59C8310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59C83110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59C83130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59C834FF

**Explanation:** Format in progress.

## 59C84041 • 59C8FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59C84041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59C84060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59C84061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59C84100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59C87000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59C87001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C870DD

**Explanation:** System log entry only, no service action required.

---

### 59C8FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59C8FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59C8FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C8FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C8FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C8FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59C8FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59C8FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59C8FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59C8FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59C8FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (59C9) Reference codes

---

### 59C9102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59C93002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59C93010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59C93020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59C93029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59C93100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59C93109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59C9310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59C9310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59C93110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59C93130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59C934FF

**Explanation:** Format in progress.

## 59C94041 • 59C9FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59C94041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59C94060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59C94061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59C94100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59C97000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59C97001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C970DD

**Explanation:** System log entry only, no service action required.

---

### 59C9FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59C9FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59C9FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C9FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C9FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59C9FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59C9FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59C9FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59C9FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59C9FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59C9FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (59CC) Reference codes

---

### 59CC102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59CC3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59CC3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59CC3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59CC3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59CC3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59CC3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59CC310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59CC310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59CC3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59CC3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59CC34FF

**Explanation:** Format in progress.

## 59CC4041 • 59CCFFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59CC4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59CC4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59CC4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59CC4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59CC7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59CC7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

**1010** System reference codes (1xxx - Axxx)

---

### 59CC70DD

**Explanation:** System log entry only, no service action required.

---

### 59CCFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59CCFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59CCFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59CCFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59CCFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59CCFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59CCFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59CCFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59CCFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59CCFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59CCFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (59CD) Reference codes

---

### 59CD102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59CD3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59CD3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59CD3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59CD3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59CD3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59CD3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59CD310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59CD310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59CD3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59CD3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59CD34FF

**Explanation:** Format in progress.

## 59CD4041 • 59CDFFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59CD4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59CD4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59CD4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59CD4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59CD7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59CD7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59CD70DD

**Explanation:** System log entry only, no service action required.

---

### 59CDFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59CDFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59CDFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59CDFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59CDFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59CDFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59CDFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59CDFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59CDFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59CDFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59CDFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (59D0) Reference codes

---

### 59D0102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59D03002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59D03010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59D03020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59D03029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59D03100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59D03109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59D0310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59D0310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59D03110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59D03130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59D034FF

**Explanation:** Format in progress.

## 59D04041 • 59D0FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59D04041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59D04060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59D04061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59D04100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59D07000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59D07001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

**1018** System reference codes (1xxx - Axxx)

---

### 59D070DD

**Explanation:** System log entry only, no service action required.

---

### 59D0FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59D0FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59D0FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D0FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D0FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D0FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59D0FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59D0FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59D0FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59D0FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59D0FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (59D2) Reference codes

---

### 59D2102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 59D23002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

### 59D23010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 59D23020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

### 59D23029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59D23100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

### 59D23109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 59D2310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 59D2310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

### 59D23110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

### 59D23130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 59D234FF

**Explanation:** Format in progress.

---

## 59D24041 • 59D2FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59D24041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59D24060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59D24061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59D24100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59D27000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59D27001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D270DD

**Explanation:** System log entry only, no service action required.

---

### 59D2FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59D2FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59D2FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D2FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D2FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D2FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59D2FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59D2FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59D2FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59D2FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59D2FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (59D8) Reference codes

---

### 59D8102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59D83002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59D83010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59D83020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59D83029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59D83100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59D83109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59D8310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59D8310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59D83110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59D83130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59D834FF

**Explanation:** Format in progress.

## 59D84041 • 59D8FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59D84041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59D84060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59D84061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59D84100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59D87000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59D87001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D870DD

**Explanation:** System log entry only, no service action required.

---

### 59D8FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59D8FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59D8FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D8FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D8FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59D8FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59D8FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59D8FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59D8FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59D8FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59D8FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (59E1) Reference codes

---

### 59E1102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59E13002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59E13010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59E13020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59E13029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59E13100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59E13109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59E1310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59E1310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59E13110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59E13130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59E134FF

**Explanation:** Format in progress.

## 59E14041 • 59E1FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59E14041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59E14060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59E14061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59E14100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59E17000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59E17001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E170DD

**Explanation:** System log entry only, no service action required.

---

### 59E1FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59E1FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59E1FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E1FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E1FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E1FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59E1FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59E1FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59E1FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59E1FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59E1FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (59E5) Reference codes

---

### 59E5102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59E53002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59E53010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59E53020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59E53029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59E53100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59E53109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59E5310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59E5310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59E53110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59E53130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59E534FF

**Explanation:** Format in progress.

## 59E54041 • 59E5FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59E54041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59E54060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59E54061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59E54100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59E57000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59E57001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E570DD

**Explanation:** System log entry only, no service action required.

---

### 59E5FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59E5FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59E5FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E5FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E5FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E5FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59E5FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59E5FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59E5FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59E5FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59E5FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (59E6) Reference codes

---

### 59E6102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59E63002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59E63010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59E63020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59E63029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59E63100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59E63109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59E6310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59E6310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59E63110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59E63130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59E634FF

**Explanation:** Format in progress.

## 59E64041 • 59E6FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59E64041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59E64060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59E64061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59E64100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59E67000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59E67001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E670DD

**Explanation:** System log entry only, no service action required.

---

### 59E6FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59E6FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59E6FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E6FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E6FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59E6FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59E6FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59E6FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59E6FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59E6FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59E6FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (59EA) Reference codes

---

### 59EA102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59EA3002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59EA3010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59EA3020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59EA3029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59EA3100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59EA3109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59EA310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59EA310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59EA3110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59EA3130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59EA34FF

**Explanation:** Format in progress.

## 59EA4041 • 59EAFFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59EA4041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59EA4060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59EA4061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59EA4100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59EA7000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59EA7001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59EA70DD

**Explanation:** System log entry only, no service action required.

---

### 59EAFFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59EAFFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59EAFFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59EAFFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59EAFFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59EAFFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59EAFFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59EAFFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59EAFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59EAFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59EAFFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (59F6) Reference codes

---

### 59F6102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59F63002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59F63010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59F63020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59F63029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59F63100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59F63109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59F6310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59F6310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59F63110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59F63130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59F634FF

**Explanation:** Format in progress.

## 59F64041 • 59F6FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59F64041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59F64060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59F64061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59F64100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59F67000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59F67001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59F670DD

**Explanation:** System log entry only, no service action required.

---

### 59F6FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59F6FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59F6FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59F6FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59F6FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59F6FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59F6FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59F6FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59F6FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59F6FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59F6FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (59F7) Reference codes

---

### 59F7102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 59F73002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

### 59F73010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59F73020

**Explanation:** Replacement device is not supported.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

### 59F73029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 59F73100

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

### 59F73109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59F7310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59F7310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

### 59F73110

**Explanation:** Device bus interface error occurred.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

### 59F73130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 59F734FF

**Explanation:** Format in progress.

## 59F74041 • 59F7FFF9

**Response:** No action required. This reference code is logged for information only.

---

### 59F74041

**Explanation:** Incomplete multipath connection.

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 59F74060

**Explanation:** Multipath redundancy level reduced.

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 59F74061

**Explanation:** Multipath redundancy level increased.

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 59F74100

**Explanation:** Device bus fabric error.

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

### 59F77000

**Explanation:** Disk sector read error.

**Response:** No action required. This reference code is logged for information only.

---

### 59F77001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59F770DD

**Explanation:** System log entry only, no service action required.

---

### 59F7FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 59F7FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 59F7FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59F7FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59F7FFF7

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 59F7FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**59F7FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**59F7FFFB**

**Explanation:** SAS bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**59F7FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59F7FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**59F7FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (6258) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 62583000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 62583202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 62583400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 62589020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 62589100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 62589101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 62589102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 62589103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 62589104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 62589200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 62589201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**62589202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**62589210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**62589211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**62589220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**62589221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**62589300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**62589301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**62589302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**62589303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**62589304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**62589310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**62589320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**62589321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**62589350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**62589351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**62589355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**62589500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**62589501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**62589800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.



---

**62589801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62589802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62589803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62589804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62589805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62589806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62589810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**62589899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**62589900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**62589901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**62589902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**62589903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**6258FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (6279) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 62793000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 62793202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 62793400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 62799020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 62799100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 62799101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 62799102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 62799103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 62799104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 62799200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 62799201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**62799202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**62799210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**62799211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**62799220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**62799221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**62799300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**62799301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**62799302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**62799303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**62799304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**62799310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**62799320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**62799321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**62799350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**62799351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**62799355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**62799500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**62799501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**62799800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62799801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62799802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62799803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62799804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62799805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62799806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**62799810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**62799899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**62799900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**62799901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**62799902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**62799903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**6279FFF6**

**Explanation:** Tape volume statistics logged (no action required).





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## (6320) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

#### 6320C000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

#### 6320C002

**Explanation:** SCSI Selection or Reselection timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

#### 6320C010

**Explanation:** Undefined sense key returned by device.

**Failing Item:**

- FI00870

---

#### 6320C020

**Explanation:** Configuration error.

**Failing Item:**

- FI00870

---

#### 6320C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6320C023**

**Explanation:** Unable to determine all of the device capabilities or the device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6320C100**

**Explanation:** SCSI Bus error occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6320C110**

**Explanation:** SCSI command timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6320C210**

**Explanation:** Unexpected device condition.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**1066** System reference codes (1xxx - Axxx)

---

**6320C300**

**Explanation:** Media or device error occurred.

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6320C301**

**Explanation:** Media or device error occurred.

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6320C302**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6320C303**

**Explanation:** Media had an unknown format.

**Response:** No action required. This reference code is logged for information only.

---

**6320C332**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6320C333**

**Explanation:** Incompatible media.

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.

3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6320C400**

**Explanation:** Physical link error detected by device.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6320C402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6320CFF2**

**Explanation:** Device not ready - Start Unit issued.

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6320CFF4**

**Explanation:** Internal device error occurred.

**Failing Item:**

- FI00870
- MEDIA

**6320CFF6**

**Explanation:** Device successfully recovered from a temporary error.

**Response:** No action is required. This reference code is logged for information only.

**6320CFF7**

**Explanation:** Recovered device error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6320CFFE**

**Explanation:** Recovered SCSI bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6320FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded.

**Response:** This reference code is logged for information only.

**6320FF3D**

**Explanation:** Recovered IOA error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6320FF6D**

**Explanation:** Recovered SPD bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6321) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

#### 6321C000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

#### 6321C002

**Explanation:** SCSI Selection or Reselection timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

#### 6321C010

**Explanation:** Undefined sense key returned by device.

**Failing Item:**

- FI00870

---

#### 6321C020

**Explanation:** Configuration error.

**Failing Item:**

- FI00870

---

#### 6321C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6321C023**

**Explanation:** Unable to determine all of the device capabilities or the device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6321C100**

**Explanation:** SCSI Bus error occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6321C110**

**Explanation:** SCSI command timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6321C210**

**Explanation:** Unexpected device condition.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**1070** System reference codes (1xxx - Axxx)

---

**6321C300**

**Explanation:** Media or device error occurred.

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6321C301**

**Explanation:** Media or device error occurred.

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6321C302**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6321C303**

**Explanation:** Media had an unknown format.

**Response:** No action required. This reference code is logged for information only.

---

**6321C332**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6321C333**

**Explanation:** Incompatible media.

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.

3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6321C400**

**Explanation:** Physical link error detected by device.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6321C402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6321CFF2**

**Explanation:** Device not ready - Start Unit issued.

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6321CFF4**

**Explanation:** Internal device error occurred.

**Failing Item:**

- FI00870
- MEDIA

**6321CFF6**

**Explanation:** Device successfully recovered from a temporary error.

**Response:** No action is required. This reference code is logged for information only.

**6321CFF7**

**Explanation:** Recovered device error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6321CFFE**

**Explanation:** Recovered SCSI bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6321FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded.

**Response:** This reference code is logged for information only.

**6321FF3D**

**Explanation:** Recovered IOA error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6321FF6D**

**Explanation:** Recovered SPD bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.





---

## (632B) Reference codes

---

### 632BCFC1

**Explanation:** Virtual media list access problem.

**Response:** A virtual optical device cannot access the file containing the list of volumes.

1. On this partition and the Network File System server, ensure the proper file is specified and proper authority is granted. If that does not resolve the problem continue with the next step.
2. Collect vlogs for major code 3A00 and send them to your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 632BCFC2

**Explanation:** Error reading virtual volume list.

**Response:** A non-recoverable error was detected while reading the list of volumes.

Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.

**Failing Item:**

- SVCDOCS
- 

### 632BCFC3

**Explanation:** Virtual media volume list is not valid.

**Response:** The data in the list of volumes is not valid.

On the Network File System server, ensure that the proper file is specified, that all files are entered correctly, that there are no blank lines, and that the character set used is valid.

**Failing Item:**

- SVCDOCS
- 

### 632BCFC4

**Explanation:** Virtual optical volume access problem.

**Response:** A virtual optical device cannot access the file containing the specified optical volume.

On the Network File System server, ensure the proper file is specified in the list of volumes, and that the proper authority is granted.

**Failing Item:**

- SVCDOCS
- 

### 632BCFC5

**Explanation:** Error reading virtual optical volume.

**Response:** A non-recoverable error was detected while reading a virtual optical volume.

Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.

**Failing Item:**

- SVCDOCS
- 

### 632BCFC6

**Explanation:** Virtual optical volume is not valid.

**Response:** The file specified does not contain data that can be processed as a virtual optical volume.

On the Network File System server, ensure all the files specified in the list of optical volumes are correct.

**Failing Item:**

- SVCDOCS
- 

### 632BCFC7

**Explanation:** Virtual optical device detected error.

**Response:** A virtual optical device detected an error reported by the Network File System server that cannot be recovered.

Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.

**Failing Item:**

- SVCDOCS
- 

### 632BCFC8

**Explanation:** Virtual optical device error.

**Response:** A virtual optical device encountered a non-recoverable error.

Contact your next level of support for assistance.

**Failing Item:**

- NEXTLVL
-



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## (632C) Reference codes

---

### 632CC000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 632CC002

**Explanation:** SCSI Selection or Reselection timeout occurred.

**Response:** Refer to the hosting partition for problem analysis.

---

### 632CC010

**Explanation:** Undefined sense key returned by device.

**Response:** Refer to the hosting partition for problem analysis.

---

### 632CC020

**Explanation:** Configuration error.

**Response:** Refer to the hosting partition for problem analysis.

---

### 632CC022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSO off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.

2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.
- 

### 632CC023

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

1. If the device doesn't support writing to media, no action is required.
  2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
  3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  4. Ensure that the latest optical LIC PTFs have been applied.
- 

### 632CC100

**Explanation:** SCSI Bus error occurred.

**Response:** Refer to the hosting partition for problem analysis.

---

### 632CC110

**Explanation:** SCSI command timeout occurred.

**Response:** Refer to the hosting partition for problem analysis.

---

### 632CC210

**Explanation:** Unexpected device condition.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

632CC300

**Explanation:** Media or device error occurred.

**Response:** Refer to the hosting partition for problem analysis.

---

632CC301

**Explanation:** Media or device error occurred.

**Response:** Refer to the hosting partition for problem analysis.

---

632CC302

**Explanation:** Media or device error occurred.

**Response:** Refer to the hosting partition for problem analysis.

---

632CC303

**Explanation:** Media had an unknown format.

**Response:** No action required. This reference code is logged for information only.

---

632CC333

**Explanation:** Incompatible media.

**Response:** Perform the following:

1. Verify that the disk has a format that is given support.
  2. If the format is given support, clean the disk and attempt the failing operation again.
  3. If the operation fails again with the same reference code, ask your media source for a replacement disk.
- 

632CC400

**Explanation:** Physical link error detected by device.

**Response:** Refer to the hosting partition for problem analysis.

---

632CC402

**Explanation:** Licensed Internal Code program error occurred.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

---

632CCFF2

**Explanation:** Device not ready - Start Unit issued.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

632CCFF4

**Explanation:** Internal device error occurred.

**Response:** Refer to the hosting partition for problem analysis.

---

632CCFF6

**Explanation:** The device successfully recovered from a temporary error.

**Response:** No action is required. This reference code is logged for information only.

---

632CCFF7

**Explanation:** Recovered device error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

632CCFFE

**Explanation:** Recovered SCSI bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

632CFF3D

**Explanation:** Recovered IOA error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

632CFF6D

**Explanation:** Recovered SPD bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

---

## (6330) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

#### 6330C000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

#### 6330C002

**Explanation:** SCSI Selection or Reselection timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

#### 6330C010

**Explanation:** Undefined sense key returned by device.

**Failing Item:**

- FI00870

---

#### 6330C020

**Explanation:** Configuration error.

**Failing Item:**

- FI00870

---

#### 6330C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6330C023**

**Explanation:** Unable to determine all of the device capabilities or the device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6330C100**

**Explanation:** SCSI Bus error occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6330C110**

**Explanation:** SCSI command timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6330C210**

**Explanation:** Unexpected device condition.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**1078** System reference codes (1xxx - Axxx)

---

**6330C300**

**Explanation:** Media or device error occurred.

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6330C301**

**Explanation:** Media or device error occurred.

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6330C302**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6330C303**

**Explanation:** Media had an unknown format.

**Response:** No action required. This reference code is logged for information only.

---

**6330C332**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6330C333**

**Explanation:** Incompatible media.

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.

3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6330C400**

**Explanation:** Physical link error detected by device.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6330C402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6330CFF2**

**Explanation:** Device not ready - Start Unit issued.

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6330CFF4**

**Explanation:** Internal device error occurred.

**Failing Item:**

- FI00870
- MEDIA

**6330CFF6**

**Explanation:** Device successfully recovered from a temporary error.

**Response:** No action is required. This reference code is logged for information only.

**6330CFF7**

**Explanation:** Recovered device error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6330CFFE**

**Explanation:** Recovered SCSI bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6330FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded.

**Response:** This reference code is logged for information only.

**6330FF3D**

**Explanation:** Recovered IOA error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6330FF6D**

**Explanation:** Recovered SPD bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.





---

## (6331) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

### 6331C000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

device has power from other than the USB cable. Use the following failing item list:

- USB\_CBL
- USBCNVT
- OPTD005
- USB\_IOA
- MEDIA

---

### 6331C002

**Explanation:** SCSI Selection or Reselection timeout occurred.

**Response:** Perform the following:

1. Determine the device model using one of the methods below.
  - If you are viewing this SRC from the Service Action Log (SAL) then search for the symbolic FRU callout "OPTD005". If "OPTD005" is listed then the device is a model 005 optical device. Continue with the next step in this procedure.
  - If you are viewing this SRC from the Product Activity Log (PAL) then the model will be listed near the top of the screen when view the details for the PAL entry. Record the model and Continue with the next step in this procedure.
  - Record the resource name logged for the SRC. Go to Hardware Service Manager in SST/DST and select "Locate resource by resource name". Enter the resource name you recorded. Select "Display detail" for that resource and record the model.
2. Is the device a model 005?
  - Yes - the device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing parts ensure that the

- No - the device is a 6331 optical device. Use the following failing item list:

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

### 6331C010

**Explanation:** Undefined sense key returned by device.

**Response:** Perform the following:

1. Determine the device model using one of the methods below.
  - If you are viewing this SRC from the Service Action Log (SAL) then search for the symbolic FRU callout "OPTD005". If "OPTD005" is listed then the device is a model 005 optical device. Continue with the next step in this procedure.
  - If you are viewing this SRC from the Product Activity Log (PAL) then the model will be listed near the top of the screen when view the details

## 6331C020 • 6331C100

for the PAL entry. Record the model and Continue with the next step in this procedure.

- Record the resource name logged for the SRC. Go to Hardware Service Manager in SST/DST and select "Locate resource by resource name". Enter the resource name you recorded. Select "Display detail" for that resource and record the model.
2. Is the device a model 005?
- Yes - the device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing parts ensure that the device has power from other than the USB cable. Use the following failing item list:
    - OPTD005
  - No - the device is a 6331 optical device. Use the following failing item list:
    - FI00870

---

### 6331C020

**Explanation:** Configuration error.

**Response:** Perform the following:

1. Determine the device model using one of the methods below.
  - If you are viewing this SRC from the Service Action Log (SAL) then search for the symbolic FRU callout "OPTD005". If "OPTD005" is listed then the device is a model 005 optical device. Continue with the next step in this procedure.
  - If you are viewing this SRC from the Product Activity Log (PAL) then the model will be listed near the top of the screen when view the details for the PAL entry. Record the model and Continue with the next step in this procedure.
  - Record the resource name logged for the SRC. Go to Hardware Service Manager in SST/DST and select "Locate resource by resource name". Enter the resource name you recorded. Select "Display detail" for that resource and record the model.
2. Is the device a model 005?
  - Yes - the device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing parts ensure that the device has power from other than the USB cable. Use the following failing item list:
    - OPTD005
  - No - the device is a 6331 optical device. Use the following failing item list:
    - FI00870

---

### 6331C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code

is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

### 6331C023

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

### 6331C100

**Explanation:** SCSI Bus error occurred.

**Response:** Perform the following:

1. Determine the device model using one of the methods below.

- If you are viewing this SRC from the Service Action Log (SAL) then search for the symbolic FRU callout "OPTD005". If "OPTD005" is listed then the device is a model 005 optical device. Continue with the next step in this procedure.
  - If you are viewing this SRC from the Product Activity Log (PAL) then the model will be listed near the top of the screen when view the details for the PAL entry. Record the model and Continue with the next step in this procedure.
  - Record the resource name logged for the SRC. Go to Hardware Service Manager in SST/DST and select "Locate resource by resource name". Enter the resource name you recorded. Select "Display detail" for that resource and record the model.
2. Is the device a model 005?
- Yes - the device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing parts ensure that the device has power from other than the USB cable. Use the following failing item list:
    - USB\_CBL
    - USBCNVT
    - OPTD005
    - USB\_IOA
    - MEDIA
  - No - the device is a 6331 optical device. Use the following failing item list:
    - FI00870
    - CNVTCRD
    - FI01106
    - STORIOA
    - MEDIA
    - FI01141
    - FI01140

---

### 6331C110

**Explanation:** SCSI command timeout occurred.

**Response:** Perform the following:

1. Determine the device model using one of the methods below.
  - If you are viewing this SRC from the Service Action Log (SAL) then search for the symbolic FRU callout "OPTD005". If "OPTD005" is listed then the device is a model 005 optical device. Continue with the next step in this procedure.
  - If you are viewing this SRC from the Product Activity Log (PAL) then the model will be listed near the top of the screen when view the details for the PAL entry. Record the model and Continue with the next step in this procedure.
  - Record the resource name logged for the SRC. Go to Hardware Service Manager in SST/DST and select "Locate resource by resource name". Enter

the resource name you recorded. Select "Display detail" for that resource and record the model.

2. Is the device a model 005?

- Yes - the device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing parts ensure that the device has power from other than the USB cable. Use the following failing item list:
  - USB\_CBL
  - USBCNVT
  - OPTD005
  - USB\_IOA
  - MEDIA
- No - the device is a 6331 optical device. Use the following failing item list:
  - FI00870
  - CNVTCRD
  - FI01106
  - STORIOA
  - MEDIA
  - FI01141
  - FI01140

---

### 6331C210

**Explanation:** Unexpected device condition.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

### 6331C300

**Explanation:** Media or device error occurred.

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If the problem is corrected this ends the procedure. Otherwise continue with the next step in this procedure.
4. If cleaning the disk does not correct the problem, exchange the failing items. Determine the failing items with the following steps.
5. Determine the device model using one of the methods below.
  - If you are viewing this SRC from the Service Action Log (SAL) then search for the symbolic FRU callout "OPTD005". If "OPTD005" is listed then the device is a model 005 optical device. Continue with the next step in this procedure.
  - If you are viewing this SRC from the Product Activity Log (PAL) then the model will be listed near the top of the screen when view the details

for the PAL entry. Record the model and Continue with the next step in this procedure.

- Record the resource name logged for the SRC. Go to Hardware Service Manager in SST/DST and select "Locate resource by resource name". Enter the resource name you recorded. Select "Display detail" for that resource and record the model.
6. Is the device a model 005?
- Yes - the device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing the device ensure that the device has power from other than the USB cable. Use the following failing item list:
    - MEDIA
    - OPTD005
  - No - the device is a 6331 optical device. Use the following failing item list:
    - MEDIA
    - FI00870

---

#### 6331C301

**Explanation:** Media or device error occurred.

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

#### 6331C302

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

#### 6331C303

**Explanation:** Media had an unknown format.

**Response:** No action required. This reference code is logged for information only.

---

#### 6331C332

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

#### 6331C333

**Explanation:** Incompatible media.

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.
3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.
4. If cleaning or replacing the disk does not correct the problem, exchange the failing items. Determine the failing items with the following steps.
5. Determine the device model using one of the methods below.
  - If you are viewing this SRC from the Service Action Log (SAL) then search for the symbolic FRU callout "OPTD005". If "OPTD005" is listed then the device is a model 005 optical device. Continue with the next step in this procedure.
  - If you are viewing this SRC from the Product Activity Log (PAL) then the model will be listed near the top of the screen when view the details for the PAL entry. Record the model and Continue with the next step in this procedure.
  - Record the resource name logged for the SRC. Go to Hardware Service Manager in SST/DST and select "Locate resource by resource name". Enter the resource name you recorded. Select "Display detail" for that resource and record the model.
6. Is the device a model 005?
  - Yes - the device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing parts ensure that the device has power from other than the USB cable. Use the following failing item list:
    - MEDIA
    - OPTD005
  - No - the device is a 6331 optical device. Use the following failing item list:
    - MEDIA
    - FI00870

---

#### 6331C400

**Explanation:** Physical link error detected by device.

**Response:** Perform the following:

1. Determine the device model using one of the methods below.
  - If you are viewing this SRC from the Service Action Log (SAL) then search for the symbolic FRU callout "OPTD005". If "OPTD005" is listed then the device is a model 005 optical device. Continue with the next step in this procedure.

- If you are viewing this SRC from the Product Activity Log (PAL) then the model will be listed near the top of the screen when view the details for the PAL entry. Record the model and Continue with the next step in this procedure.
  - Record the resource name logged for the SRC. Go to Hardware Service Manager in SST/DST and select "Locate resource by resource name". Enter the resource name you recorded. Select "Display detail" for that resource and record the model.
2. Is the device a model 005?
- Yes - the device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing parts ensure that the device has power from other than the USB cable. Use the following failing item list:
    - USB\_CBL
    - USBCNVT
    - OPTD005
    - USB\_IOA
  - No - the device is a 6331 optical device. Use the following failing item list:
    - FI00870
    - CNVTCRD
    - FI01106
    - STORIOA
    - FI01140
    - FI01141

---

#### 6331C401

**Explanation:** Device LIC reporting physical link error between USB IOA and USB attached SATA optical device.

**Problem determination:** Perform the following:

1. Look for USB adapter errors logged at about the same time as this event. The location code of the USB IOA may be given in the serviceable event view that you are working with. If there is a serviceable event for the USB IOA then work that problem and close this problem. Otherwise continue with the next step.
2. The device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing parts ensure that the device has power from other than the USB cable. Power is supplied from the enclosure where the device is located. If the enclosure is a 9119-MxE system control unit then the device power and device service indicators are managed from the ASMI interface. If you have verified that the device has power then work the failing item list.

**Failing Item:**

- SVCDOCS
- USB\_CBL

- USBCNVT
- OPTD005
- USB\_IOA
- AJDGP01

---

#### 6331C402

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

---

#### 6331CFF2

**Explanation:** Device not ready - Start Unit issued.

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

#### 6331CFF4

**Explanation:** Internal device error occurred.

**Response:**

1. Determine the failing items with the following steps.
2. Determine the device model using one of the methods below.
  - If you are viewing this SRC from the Service Action Log (SAL) then search for the symbolic FRU callout "OPTD005". If "OPTD005" is listed then the device is a model 005 optical device. Continue with the next step in this procedure.
  - If you are viewing this SRC from the Product Activity Log (PAL) then the model will be listed near the top of the screen when view the details for the PAL entry. Record the model and Continue with the next step in this procedure.
  - Record the resource name logged for the SRC. Go to Hardware Service Manager in SST/DST and select "Locate resource by resource name". Enter the resource name you recorded. Select "Display detail" for that resource and record the model.
3. Is the device a model 005?
  - Yes - the device is a USB attached optical device being reported as a 6331 model 005 optical device. Before replacing parts ensure that the device has power from other than the USB cable. Use the following failing item list:
    - OPTD005
    - MEDIA
  - No - the device is a 6331 optical device. Use the following failing item list:

## 6331CFF6 • 6331FF6D

- FI00870
- MEDIA

---

### 6331CFF6

**Explanation:** Device successfully recovered from a temporary error.

**Response:** No action is required. This reference code is logged for information only.

---

### 6331CFF7

**Explanation:** Recovered device error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

### 6331CFFE

**Explanation:** Recovered SCSI bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

### 6331FF09

**Explanation:** Licensed Internal Code for optical device was not upgraded.

**Response:** This reference code is logged for information only.

---

### 6331FF3D

**Explanation:** Recovered IOA error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

### 6331FF6D

**Explanation:** Recovered bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

## (6333) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

#### 6333C000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

#### 6333C002

**Explanation:** SCSI Selection or Reselection timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

#### 6333C010

**Explanation:** Undefined sense key returned by device.

**Failing Item:**

- FI00870

---

#### 6333C020

**Explanation:** Configuration error.

**Failing Item:**

- FI00870

---

#### 6333C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6333C023**

**Explanation:** Unable to determine all of the device capabilities or the device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6333C100**

**Explanation:** SCSI Bus error occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6333C110**

**Explanation:** SCSI command timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6333C210**

**Explanation:** Unexpected device condition.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6333C300**

**Explanation:** Media or device error occurred.

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6333C301**

**Explanation:** Media or device error occurred.

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6333C302**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6333C303**

**Explanation:** Media had an unknown format.

**Response:** No action required. This reference code is logged for information only.

---

**6333C332**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6333C333**

**Explanation:** Incompatible media.

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.



3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6333C400**

**Explanation:** Physical link error detected by device.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6333C402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6333CFF2**

**Explanation:** Device not ready - Start Unit issued.

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6333CFF4**

**Explanation:** Internal device error occurred.

**Failing Item:**

- FI00870
- MEDIA

**6333CFF6**

**Explanation:** Device successfully recovered from a temporary error.

**Response:** No action is required. This reference code is logged for information only.

**6333CFF7**

**Explanation:** Recovered device error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6333CFFE**

**Explanation:** Recovered SCSI bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6333FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded.

**Response:** This reference code is logged for information only.

**6333FF3D**

**Explanation:** Recovered IOA error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6333FF6D**

**Explanation:** Recovered SPD bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6336) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

### 6336C000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 6336C002

**Explanation:** SCSI Selection or Reselection timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

### 6336C010

**Explanation:** Undefined sense key returned by device.

**Failing Item:**

- FI00870

---

### 6336C020

**Explanation:** Configuration error.

**Failing Item:**

- FI00870

---

### 6336C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6336C023**

**Explanation:** Unable to determine all of the device capabilities or the device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6336C100**

**Explanation:** SCSI Bus error occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6336C110**

**Explanation:** SCSI command timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6336C210**

**Explanation:** Unexpected device condition.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**1092** System reference codes (1xxx - Axxx)

---

**6336C300**

**Explanation:** Media or device error occurred.

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6336C301**

**Explanation:** Media or device error occurred.

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6336C302**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6336C303**

**Explanation:** Media had an unknown format.

**Response:** No action required. This reference code is logged for information only.

---

**6336C332**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6336C333**

**Explanation:** Incompatible media.

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.

3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6336C400**

**Explanation:** Physical link error detected by device.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6336C402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6336CFF2**

**Explanation:** Device not ready - Start Unit issued.

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6336CFF4**

**Explanation:** Internal device error occurred.

**Failing Item:**

- FI00870
- MEDIA

**6336CFF6**

**Explanation:** Device successfully recovered from a temporary error.

**Response:** No action is required. This reference code is logged for information only.

**6336CFF7**

**Explanation:** Recovered device error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6336CFFE**

**Explanation:** Recovered SCSI bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6336FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded.

**Response:** This reference code is logged for information only.

**6336FF3D**

**Explanation:** Recovered IOA error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6336FF6D**

**Explanation:** Recovered SPD bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6337) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

#### 6337C000

**Explanation:** System log entry only, no service action required.

**Response:** No action is required. This reference code is logged for information only.

---

#### 6337C002

**Explanation:** SCSI Selection or Reselection timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

#### 6337C010

**Explanation:** Undefined sense key returned by device.

**Failing Item:**

- FI00870

---

#### 6337C020

**Explanation:** Configuration error.

**Failing Item:**

- FI00870

---

#### 6337C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6337C023**

**Explanation:** Unable to determine all of the device capabilities or the device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6337C100**

**Explanation:** SCSI Bus error occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6337C110**

**Explanation:** SCSI command timeout occurred.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6337C210**

**Explanation:** Unexpected device condition.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**1096** System reference codes (1xxx - Axxx)

---

**6337C300**

**Explanation:** Media or device error occurred.

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6337C301**

**Explanation:** Media or device error occurred.

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6337C302**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6337C303**

**Explanation:** Media had an unknown format.

**Response:** No action required. This reference code is logged for information only.

---

**6337C332**

**Explanation:** Media or device error occurred.

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6337C333**

**Explanation:** Incompatible media.

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.



3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6337C400**

**Explanation:** Physical link error detected by device.

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6337C402**

**Explanation:** Licensed Internal Code error.

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6337CFF2**

**Explanation:** Device not ready - Start Unit issued.

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6337CFF4**

**Explanation:** Internal device error occurred.

**Failing Item:**

- FI00870
- MEDIA

**6337CFF6**

**Explanation:** Device successfully recovered from a temporary error.

**Response:** No action is required. This reference code is logged for information only.

**6337CFF7**

**Explanation:** Recovered device error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6337CFFE**

**Explanation:** Recovered SCSI bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6337FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded.

**Response:** This reference code is logged for information only.

**6337FF3D**

**Explanation:** Recovered IOA error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6337FF6D**

**Explanation:** Recovered SPD bus error.

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6382) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 63823000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 63823202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 63823400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 63829020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 63829100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 63829101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

### 63829102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

### 63829103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

### 63829104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

### 63829200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

### 63829201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**63829202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63829210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63829211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**63829220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63829221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**63829300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**63829301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**63829302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63829303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**63829304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**63829310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**63829320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**63829321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**63829350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**63829351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63829355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**63829500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**63829501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**63829800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63829801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63829802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63829803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63829804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63829805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63829806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63829810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**63829899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**63829900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**63829901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**63829902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**63829903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**6382FFF6**

**Explanation:** Tape volume statistics logged (no action required).





---

## (6383) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 63833000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 63833202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 63833400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 63839020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 63839100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 63839101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

### 63839102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

### 63839103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

### 63839104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

### 63839200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

### 63839201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**63839202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63839210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63839211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**63839220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63839221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**63839300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**63839301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**63839302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63839303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**63839304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**63839310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**63839320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**63839321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**63839350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**63839351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63839355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**63839500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**63839501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**63839800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63839801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63839802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63839803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63839804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63839805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63839806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63839810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**63839899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**63839900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**63839901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**63839902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**63839903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**6383FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (6384) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 63843000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 63843202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 63843400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 63849020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 63849100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 63849101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 63849102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 63849103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 63849104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 63849200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 63849201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.



5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**63849202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63849210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63849211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**63849220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63849221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**63849300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**63849301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**63849302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63849303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**63849304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**63849310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**63849320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**63849321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**63849350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**63849351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63849355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**63849500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**63849501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**63849800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63849801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63849802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63849803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63849804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63849805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63849806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63849810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**63849899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**63849900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**63849901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**63849902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**63849903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**6384FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (6386) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 63863000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 63863202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 63863400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 63869020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 63869100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 63869101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 63869102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 63869103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 63869104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 63869200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 63869201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**63869202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63869210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63869211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**63869220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63869221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**63869300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**63869301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**63869302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63869303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**63869304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**63869310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**63869320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**63869321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**63869350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**63869351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63869355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**63869500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**63869501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**63869800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.



---

**63869801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63869802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63869803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63869804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63869805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63869806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63869810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**63869899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**63869900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**63869901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**63869902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**63869903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**6386FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (6387) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 63873000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 63873202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 63873400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 63879020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 63879100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 63879101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 63879102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 63879103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 63879104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 63879200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 63879201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**63879202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63879210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63879211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**63879220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63879221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**63879300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**63879301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**63879302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63879303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

**63879304**

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

**63879310**

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

**63879320**

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

**63879321**

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**63879350**

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

**63879351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63879355**

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**63879500**

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**63879501**

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

**63879800**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63879801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63879802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63879803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63879804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63879805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63879806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63879810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**63879899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**63879900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**63879901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**63879902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**63879903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**6387FFF6**

**Explanation:** Tape volume statistics logged (no action required).





---

## (63A0) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 63A03000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 63A03202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 63A03400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 63A09020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 63A09100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 63A09101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

**63A09102**

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

**63A09103**

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

**63A09104**

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

**63A09200**

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

**63A09201**

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**63A09202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63A09210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63A09211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**63A09220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63A09221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**63A09300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**63A09301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**63A09302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63A09303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

63A09304

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

63A09310

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

63A09320

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

63A09321

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

63A09350

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

63A09351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

63A09355

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

63A09500

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

63A09501

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

63A09800

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A09801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A09802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A09803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A09804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A09805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A09806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A09810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**63A09899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**63A09900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**63A09901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**63A09902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**63A09903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**63A0FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (63A1) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 63A13000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 63A13202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 63A13400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 63A19020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 63A19100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 63A19101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

**63A19102**

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

**63A19103**

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

**63A19104**

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

**63A19200**

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

**63A19201**

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.



5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**63A19202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63A19210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63A19211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**63A19220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63A19221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**63A19300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**63A19301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**63A19302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63A19303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

63A19304

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

63A19310

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

63A19320

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

63A19321

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

63A19350

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

63A19351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

63A19355

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

63A19500

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

63A19501

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

63A19800

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A19801**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A19802**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A19803**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A19804**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A19805**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A19806**

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

**63A19810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

**63A19899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

**63A19900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

**63A19901**

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

**63A19902**

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

**63A19903**

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

**63A1FFF6**

**Explanation:** Tape volume statistics logged (no action required).



---

## (63B8) Reference codes

---

### 63B83202

**Explanation:** Unsupported device or storage dock.

**Failing Item:**

- STGDOCK
- 

### 63B8C000

**Explanation:** This event is informational only. No service required.

---

### 63B8C002

**Explanation:** Selection time-out, device not there or not responding.

**Failing Item:**

- SVCDOCS
- 

### 63B8C020

**Explanation:** Configuration error.

**Failing Item:**

- SVCDOCS
- 

### 63B8C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this

one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)

3. Ensure that the latest optical LIC PTFs have been applied.
- 

### 63B8C100

**Explanation:** Bus error reported by device or the device unexpectedly reset.

**Failing Item:**

- CHECK
  - STGDOCK
- 

### 63B8C110

**Explanation:** Driver abort, device not responding.

**Problem determination:** Perform the following:

1. If the storage dock is remote then verify that the cable is seated correctly at the adapter or system unit and at the storage dock. If that does not resolve the problem continue with the next step.
2. If the storage dock is remote then power off and power on the storage dock. Verify that the device has power. If that does not resolve the problem continue with the next step.
3. Verify that the cartridge is not stuck or jammed. If the cartridge is stuck or jammed and you cannot free the cartridge then report this problem to your service provider. Otherwise continue with the next step.
4. Report this problem to your service provider when you have determined that the cable (if the device is cable attached) is correctly seated and the device has power.

**Failing Item:**

- SVCDOCS
  - USB\_CBL
  - STGDOCK
- 

### 63B8C210

**Explanation:** Unexpected device condition.

**Failing Item:**

- STGCART
  - STGDOCK
- 

### 63B8C300

**Explanation:** Cartridge or dock error.

## 63B8C304 • 63B8CFF2

### Failing Item:

- STGCART
- STGDOCK

---

### 63B8C304

**Explanation:** Cartridge or media error.

### Failing Item:

- STGCART

---

### 63B8C333

**Explanation:** Medium incompatible.

### Failing Item:

- STGCART

---

### 63B8C400

**Explanation:** Device or device interface error.

### Failing Item:

- STGDOCK
- STGCART

---

### 63B8C401

**Explanation:** USB transport error.

**Problem determination:** If this refcode does not appear in a serviceable event view then no service is required. The event was logged when a device disappeared while the USB transport did not appear to be in use. The device may have been unplugged or powered off. Otherwise perform the following:

1. Is the system a model S814 with feature EUA3?
  - Yes - The storage dock is either the internal dock integrated into the front of the system unit or an additional dock attached with an external USB cable. Licensed internal code (LIC) cannot tell the difference but assumes the problem is with the internal dock. The SRC is flagged for automatic call home and the USB cable FRU will not appear in the serviceable event view. Work the failing items list and skip the USB cable failing item if the dock is internal. If the dock is internal this ends the procedure. Otherwise continue with step 3.
  - No - Continue with step 3 of this procedure.
  - Don't know - Continue with the next step in this procedure.
2. Is the secondary code in the Product Activity Log (PAL) or in the Service Action Log (SAL) 9913?
  - Yes - The storage dock is either the internal dock integrated into the front of the system unit or an additional dock attached with an external USB cable. Licensed internal code (LIC) cannot tell the difference but assumes the problem is with the internal dock.

The SRC is flagged for automatic call home and the USB cable FRU will not appear in the serviceable event view. Work the failing items list and skip the USB cable failing item if the dock is internal. If the dock is internal this ends the procedure. Otherwise continue with step 3.

- No - Continue with step 3 of this procedure.
3. Is the USB device an RDX storage dock?
    - Yes - Continue with step 4 of this procedure.
    - No - Unplug and replug connectors and cables. If the location of the adapter's USB port is not listed in the Service Action Log (SAL) as part of the cable or device location use symbolic FRU USB\_CBL to determine the location of the USB port and cable or device. Try the device again before exchanging hardware. This ends the procedure.
  4. Unplug then replug connectors and cables using the following procedure:
    - Disconnect the USB cable from the RDX docking station so that the device can power off completely. If the location of the adapter's USB port is not listed in the Service Action Log (SAL) as part of the cable or device location use symbolic FRU USB\_CBL to determine the location of the USB port and cable or device.
    - Disconnect the power source for the RDX docking station.
    - Connect the RDX docking station to the power source.
    - After the power source is connected, connect the USB cable to the RDX docking station.
    - Try the device again before exchanging hardware.

### Failing Item:

- CHECK
- SVCDOCS
- USB\_CBL
- STGDOCK
- STORIOA
- AJDGP01

---

### 63B8C402

**Explanation:** Licensed Internal Code error.

### Failing Item:

- AJDGP01

---

### 63B8CFF2

**Explanation:** Device not ready.

### Failing Item:

- SVCDOCS

---

**63B8CFF4**

**Explanation:** Unrecoverable device error.

**Failing Item:**

- STGDOCK
- 

**63B8CFF6**

**Explanation:** Temporary device error. If this event appears in a serviceable event view then a service action is required. Otherwise this event is informational statistical only and no service is required.

**Failing Item:**

- STGDOCK
- 

**63B8CFF7**

**Explanation:** Temporary device error. If this event appears in a serviceable event view then a service action is required. Otherwise this event is informational statistical only and no service is required.

**Failing Item:**

- STGDOCK
- 

**63B8CFF9**

**Explanation:** Cartridge or media error.

**Failing Item:**

- STGCART
- 

**63B8CFFB**

**Explanation:** This event is informational only. No service required.

---

**63B8CFFE**

**Explanation:** Temporary device error. If this event appears in a serviceable event view then a service action is required. Otherwise this event is informational statistical only and no service is required.

**Failing Item:**

- STGDOCK
- 

**63B8FF09**

**Explanation:** Device firmware update failed.

**Problem determination:** Examine the Secondary Code for the event in the IBM i Service Action Log (SAL) or the IBM i Product Activity Log (PAL).

Is the Secondary Code zero?

- NO - Remove the media in the dock and retry the operation. If the problem persists work the failing item list.
- YES - Work the failing item list.

**Failing Item:**

- STGDOCK
- AJDGP01





---

## (63BC) Reference codes

---

### 63BC3202

**Explanation:** Unsupported device.

**Failing Item:**

- USB\_DEV
- 

### 63BCC000

**Explanation:** This event is informational only. No service required.

---

### 63BCC002

**Explanation:** Selection time-out, device not there or not responding.

**Failing Item:**

- SVCDOCS
- 

### 63BCC020

**Explanation:** Configuration error.

**Failing Item:**

- SVCDOCS
- 

### 63BCC022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:** Perform the following:

- If this device is a client virtual optical device:
  1. If no function reduction exists, no action is required.
    - Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSO off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device:
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this

one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)

3. Ensure that the latest optical LIC PTFs have been applied.
- 

### 63BCC023

**Explanation:** Unable to determine all of the device capabilities or the device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Problem determination:** Optical device SRC xxxx023 is normally logged as informational. However, if the device is a USB DVD that is missing or not operational, this SRC may be reported as a serviceable event with a 63BC storage device type. Ensure that the USB cable is attached to the device and that the device has power.

**Failing Item:**

- SVCDOCS
- 

### 63BCC100

**Explanation:** Bus error reported by device or the device unexpectedly reset.

**Failing Item:**

- USB\_DEV
- 

### 63BCC110

**Explanation:** Driver abort, device not responding.

**Problem determination:** Use the following list of possible causes as a guide. Some items may not apply to your device. Work down the list to eliminate problem possibilities.

- If there is a cable from the adapter or system unit to the device then verify that the cable is seated correctly at both ends before replacing parts.
- If the device has its own power source then power off and power on the device. Verify that the device has power before replacing parts.
- Try a different device in the same USB connection. If the different device functions properly then suspect that the original device is either not supported or failing.

If you have determined that none of the above are the cause of the problem then work the failing item list.

**Failing Item:**

- SVCDOCS

## 63BCC210 • 63BCCFFE

- USB\_CBL
- USB\_DEV

---

### 63BCC210

**Explanation:** Unexpected device condition.

**Failing Item:**

- USB\_DEV

---

### 63BCC300

**Explanation:** Storage media or device error.

**Failing Item:**

- USB\_DEV

---

### 63BCC304

**Explanation:** Media error.

**Failing Item:**

- USB\_DEV

---

### 63BCC333

**Explanation:** Medium incompatible.

**Failing Item:**

- USB\_DEV

---

### 63BCC400

**Explanation:** Device or device interface error.

**Failing Item:**

- USB\_DEV

---

### 63BCC401

**Explanation:** USB transport error.

**Problem determination:** If this refcode does not appear in a serviceable event view then no service is required. The event was logged when a device disappeared while the USB transport did not appear to be in use. The device may have been unplugged or powered off. Otherwise perform the following:

Unplug and replug connectors and cables. If the location of the adapter's USB port is not listed in the Service Action Log (SAL) as part of the cable or device location use symbolic FRU USB\_CBL to determine the location of the USB port and cable or device. Try the device again before exchanging hardware. This ends the procedure.

**Failing Item:**

- SVCDOCS
- USB\_CBL
- USB\_DEV

- AJDGP01

---

### 63BCC402

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- AJDGP01

---

### 63BCCFF2

**Explanation:** Device not ready.

**Failing Item:**

- SVCDOCS

---

### 63BCCFF4

**Explanation:** Unrecoverable device error.

**Failing Item:**

- USB\_DEV

---

### 63BCCFF6

**Explanation:** Temporary device error. If this event appears in a serviceable event view then a service action is required. Otherwise this event is informational statistical only and no service is required.

**Failing Item:**

- USB\_DEV

---

### 63BCCFF7

**Explanation:** Temporary device error. If this event appears in a serviceable event view then a service action is required. Otherwise this event is informational statistical only and no service is required.

**Failing Item:**

- USB\_DEV

---

### 63BCCFF9

**Explanation:** Media error.

**Failing Item:**

- USB\_DEV

---

### 63BCCFFB

**Explanation:** This event is informational only. No service required.

---

### 63BCCFFE

**Explanation:** Temporary device error. If this event appears in a serviceable event view then a service action is required. Otherwise this event is informational statistical only and no service is required.

**Failing Item:**

- USB\_DEV



---

## (6607) Reference codes

---

### 6607102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 66073002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

### 66073010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

### 66073020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

### 66073029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 66073100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 66073109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 66073110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

### 66073130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 66073131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 66077000

**Explanation:** Recoverable disk sector read error.

## 66077001 • 6607FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 66077001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 66077003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

### 66077004

**Explanation:** System log entry only. No service action required.

---

### 660770DD

**Explanation:** System log entry only, no service action required.

---

### 6607FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV

---

### 6607FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 6607FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 6607FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 6607FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 6607FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 6607FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 6607FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**6607FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6607FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**6607FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





---

## (6713) Reference codes

---

### 6713102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 67133002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

### 67133010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

### 67133020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

### 67133029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 67133100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 67133109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 67133110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

### 67133130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 67133131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 67137000

**Explanation:** Recoverable disk sector read error.

## 67137001 • 6713FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 67137001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 67137003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

### 67137004

**Explanation:** System log entry only. No service action required.

---

### 671370DD

**Explanation:** System log entry only, no service action required.

---

### 6713FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV
- 

### 6713FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV
- 

### 6713FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
  - STORIOA
- 

### 6713FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6713FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6713FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 6713FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6713FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
-

---

**6713FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6713FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**6713FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (6714) Reference codes

---

### 6714102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 67143002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

### 67143010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

### 67143020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

### 67143029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 67143100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 67143109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 67143110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

### 67143130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 67143131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 67147000

**Explanation:** Recoverable disk sector read error.

## 67147001 • 6714FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 67147001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 67147003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

### 67147004

**Explanation:** System log entry only. No service action required.

### 671470DD

**Explanation:** System log entry only, no service action required.

### 6714FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV
- 

### 6714FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV
- 

### 6714FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
  - STORIOA
- 

### 6714FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6714FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6714FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 6714FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6714FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
-

---

**6714FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6714FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**6714FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





---

## (6717) Reference codes

---

### 6717102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV

---

### 67173002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

### 67173010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

### 67173020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

### 67173029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 67173100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 67173109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

### 67173110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

### 67173130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 67173131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 67177000

**Explanation:** Recoverable disk sector read error.

## 67177001 • 6717FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 67177001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 67177003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

### 67177004

**Explanation:** System log entry only. No service action required.

---

### 671770DD

**Explanation:** System log entry only, no service action required.

---

### 6717FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV

---

### 6717FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV

---

### 6717FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
- STORIOA

---

### 6717FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 6717FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 6717FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV

---

### 6717FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

### 6717FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**6717FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6717FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**6717FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (6718) Reference codes

---

### 6718102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 67183002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

### 67183010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

### 67183020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

### 67183029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 67183100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 67183109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 67183110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

### 67183130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 67183131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 67187000

**Explanation:** Recoverable disk sector read error.

## 67187001 • 6718FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 67187001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 67187003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

### 67187004

**Explanation:** System log entry only. No service action required.

### 671870DD

**Explanation:** System log entry only, no service action required.

### 6718FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV
- 

### 6718FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV
- 

### 6718FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
  - STORIOA
- 

### 6718FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6718FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6718FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 6718FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6718FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
-

---

**6718FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6718FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**6718FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





---

## (6719) Reference codes

---

### 6719102E

**Explanation:** Out of alternate sectors for disk storage.

**Failing Item:**

- DISKDRV
- 

### 67193002

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

### 67193010

**Explanation:** Disk device returned wrong response to IOA.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

### 67193020

**Explanation:** Storage subsystem configuration error.

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

### 67193029

**Explanation:** A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

### 67193100

**Explanation:** Tape/optical or disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 67193109

**Explanation:** IOA timed out a disk command.

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

### 67193110

**Explanation:** Disk bus interface error occurred.

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

### 67193130

**Explanation:** Device Licensed Internal Code.

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 67193131

**Explanation:** Device or IOA Licensed Internal Code.

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### 67197000

**Explanation:** Recoverable disk sector read error.

## 67197001 • 6719FFF9

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 67197001

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 67197003

**Explanation:** Device format error.

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

### 67197004

**Explanation:** System log entry only. No service action required.

### 671970DD

**Explanation:** System log entry only, no service action required.

### 6719FFF2

**Explanation:** Disk motor problem.

**Failing Item:**

- DISKDRV
- 

### 6719FFF3

**Explanation:** Disk media format not valid.

**Failing Item:**

- DISKDRV
- 

### 6719FFF4

**Explanation:** Disk device problem.

**Failing Item:**

- DISKDRV
  - STORIOA
- 

### 6719FFF5

**Explanation:** Disk sector read error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6719FFF6

**Explanation:** Disk device detected recoverable error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6719FFF7

**Explanation:** Temporary disk data error.

**Response:** No action required. This reference code is logged for information only.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- DISKDRV
- 

### 6719FFF8

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

### 6719FFF9

**Explanation:** Temporary disk data error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
-

---

**6719FFFA**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6719FFFB**

**Explanation:** SCSI bus reset occurred.

**Response:** No action required. This reference code is logged for information only.

---

**6719FFFE**

**Explanation:** Temporary disk bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (6A59) Reference codes

---

### 6A590AD2

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00718
- 

### 6A590AD3

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00718
- 

### 6A590B25

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
  - FI00727
- 

### 6A590BA0

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590BAB

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590BB0

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590BD0

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

---

### 6A590BD1

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590BEE

**Explanation:** I/O card Licensed Internal Code ended abnormally.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C10

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
  - FI00727
- 

### 6A590C20

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C30

**Explanation:** Adapter card failed modem interface test.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C40

**Explanation:** Synchronous-data-link-control send-receive test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C43

## 6A590C50 • 6A59FFFF

**Explanation:** Synchronous-data-link-control send-receive test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C50

**Explanation:** Binary synchronous control send-receive test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C53

**Explanation:** Binary synchronous control send-receive test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C60

**Explanation:** Asynchronous send-receive test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C63

**Explanation:** Asynchronous send-receive test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C70

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590C80

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
- FI00718

---

### 6A590C90

**Explanation:** Communications adapter card X.21 test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590CA1

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A590CC0

**Explanation:** Communications adapter card test failed.

**Failing Item:**

- FI00719
  - FI00718
- 

### 6A595007

**Explanation:** Diagnostic wrap test completed; no errors detected.

---

### 6A595008

**Explanation:** Diagnostic wrap test completed; error was detected.

**Failing Item:**

- FI00719
  - DPAC
  - FI00718
- 

### 6A59FFFF

**Explanation:** User suspected problem.

**Failing Item:**

- USER

---

## (6B22) Reference codes

---

6B22XXXX

**Explanation:** Event logged in client for a virtual drive being provide by an I/O host.

**Failing Item:**

- VIRTDRV





---

## (6B23) Reference codes

---

6B23XXXX

**Explanation:** Event logged in client for a virtual drive being provide by an I/O host.

**Failing Item:**

- VIRTDRV



---

## (6B25) Reference codes

---

### 6B253020

**Explanation:** VIOS hosted, I/O processor detected a configuration error.

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

### 6B253100

**Explanation:** VIOS hosted, I/O processor card detected interface error. If this event appears in a serviceable event view then it requires service. Otherwise it can be ignored.

This event will be logged as informational during LPAR migrations and can be ignored.

**Failing Item:**

- VIOSLOG
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 6B253120

**Explanation:** VIOS hosted, I/O processor detected a port failure. If this event appears in a serviceable event view then it requires service. Otherwise it can be ignored.

This event may be logged as informational during LPAR migrations and can be ignored.

**Failing Item:**

- FCCABLE
  - FCPORT
  - FCIOA
  - VIOSLOG
  - FCDEV
  - OPT\_CLN
- 

### 6B253140

**Explanation:** VIOS hosted, I/O Processor detected that a port is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

### 6B253400

**Explanation:** VIOS hosted, I/O processor card detected device error.

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

### 6B253405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

### 6B258100

**Explanation:** VIOS hosted, recovered Fibre Channel interface error.

**Failing Item:**

- AJDGP01
- 

### 6B258130

**Explanation:** VIOS hosted, recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

### 6B258301

## 6B259500 • 6B259903

**Explanation:** VIOS hosted, unexpected fibre channel error detected.

**Failing Item:**

- NEXTLVL
- 

### 6B259500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

### 6B259903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

## (7207) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

### 72073000

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI01112

---

### 72073202

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

### 72073400

**Explanation:** Device error has occurred.

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

### 72079020

**Explanation:** Tape unit configuration error.

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

### 72079100

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

### 72079101

**Explanation:** Fibre Channel interface error detected.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

#### 72079102

**Explanation:** Gateway device detected a SCSI interface error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

#### 72079103

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

#### 72079104

**Explanation:** Interface error detected by system or by tape unit.

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the USB cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- USB\_DEV
- USB\_IOA
- USB\_CBL

#### 72079200

**Explanation:** Tape unit is not responding.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

#### 72079201

**Explanation:** Tape unit command timeout.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

---

**72079202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded.

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**72079210**

**Explanation:** Illegal or unsupported tape unit response.

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**72079211**

**Explanation:** Gateway device detected a bus protocol error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE

- FI00872
- DEVTERM

---

**72079220**

**Explanation:** Hardware configuration change detected.

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**72079221**

**Explanation:** I/O path change occurred.

**Response:** No action required. This reference code is logged for information only.

---

**72079300**

**Explanation:** Tape unit failure.

**Failing Item:**

- FI00871

---

**72079301**

**Explanation:** Tape device failure, redundancy lost.

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

**72079302**

**Explanation:** Tape device failure or media error.

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**72079303**

**Explanation:** Gateway device failure.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

72079304

**Explanation:** Tape unit failure.

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM/TKLM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM/TKLM server database.

**Failing Item:**

- USER
  - FI00871
- 

## 72079310

**Explanation:** Licensed Internal Code for the tape unit is not correct.

**Failing Item:**

- PTFSRCH
  - FI00871
- 

## 72079320

**Explanation:** Tape device Licensed Internal Code failure.

**Failing Item:**

- FI00130
  - FI00871
- 

## 72079321

**Explanation:** Gateway device Licensed Internal Code error.

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

## 72079350

**Explanation:** Tape unit detected a read or write error on tape medium.

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

---

72079351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

## 72079355

**Explanation:** The data format is incorrect; the tape cannot be read.

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

## 72079500

**Explanation:** Licensed Internal Code error.

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

## 72079501

**Explanation:** Licensed Internal Code error.

**Failing Item:**

- PTFSRCH
- 

## 72079800

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.



---

72079801

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 72079802

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 72079803

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 72079804

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 72079805

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 72079806

**Explanation:** System successfully recovered from temporary I/O error.

**Response:** No action required. This reference code is logged for information only.

---

## 72079810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only.)

---

## 72079899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found

or the problem was corrected.

---

## 72079900

**Explanation:** Licensed Internal Code for tape unit was not upgraded.

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUPIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER
- 

## 72079901

**Explanation:** Tape performance statistics logged.

**Response:** No action required. This reference code is logged for information only.

---

## 72079902

**Explanation:** An IOP dump was initiated.

**Response:** No action required.

---

## 72079903

**Explanation:** Tape device information logged.

**Response:** No action required. This reference code is logged for information only.

---

## 7207FFF6

**Explanation:** Tape volume statistics logged (no action required).



---

## (A1xx) Reference codes

An A1xx system reference (attention) code is an attention code posted by the service processor. An A1xx SRC offers information about a platform or service processor dump, confirms a control panel function request, or indicates an issue with a service processor wake-on-LAN setting. The A1xx table uses the following format:

- The reference code contains numbers that identify a particular action your server performs during initialization of firmware.
- The description offers a brief description about this SRC. It may also contain instructions for continuing the problem analysis.
- The FRU List offers a link to instructions or service actions for recovering from a hang on an attention code. Click the FRU List only when you experience a hang condition on an attention code. For example, a hang condition occurs when your server performs a requested action but the SRC in the control panel display does not change for several minutes and the service processor appears to be hung.

---

### A1003000

**Explanation:** Informational message: the platform dump was successful. If the system hangs on this progress code, perform FSPSPC1.

---

### A1003001

**Explanation:** Reserved (for platform dump). If the system hangs on this progress code, perform FSPSPC1.

---

### A1003022

**Explanation:** Confirm partition dump (control (operator) panel function 22).

**Response:** The control panel displays this attention code after you request a partition dump (panel function 22). When you see this code, scroll to function 22 again on the panel and press **Enter** to perform the partition dump. If the system hangs on this progress code, perform FSPSPC1.

---

### A1003042

**Explanation:** Confirm platform dump (control panel function 42)

**Response:** The control panel displays this attention code after you request a platform dump (panel function 42). When you see this code, scroll to function 42 again on the panel and press **Enter** to perform the platform dump. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### A1003043

**Explanation:** Confirm service processor dump (control panel function 43)

**Response:** The control panel displays this attention code after a service processor dump (panel function 43) is requested. When you see this code, scroll to function 43 again on the panel and press **Enter** to perform the service processor dump. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### A1008003

**Explanation:** Confirm restart IPL control (operator) panel function 03.

**Response:** The control panel displays this attention code after a restart IPL (panel function 03) is requested. When this SRC is displayed, scroll to function 03 again on the panel and press enter to perform the restart IPL. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### A1008008

**Explanation:** Confirm fast power-off (control panel function 08)

**Response:** This attention code is displayed on the control panel after you request a fast power-off (panel function 08). When you see this code, scroll to function 08 again on the panel and press **Enter** to perform the fast power-off. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### A1008009

**Explanation:** Beginning emergency power off (EPO) countdown. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### A100800A

**Explanation:** Proceeding with EPO. This SRC displays

## **A1703000 • A1A3C100**

after the countdown has completed successfully. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### **A1703000**

**Explanation:** A user-initiated Platform System Dump was requested.

---

### **A181D000**

**Explanation:** The hypervisor did not respond to a ROLE or FAILOVER message. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### **A181D001**

**Explanation:** The hypervisor did not post an Xdown interrupt when a reset/reload occurred. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### **A1A3C100**

**Explanation:** Invalid operational mode for remote power on (wake onLAN)

**Response:** Check the service processor settings for remote power on. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

## (A2xx) Reference codes

No service action is required.

---

### A2002250

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. A slot that was needed for the partition was unavailable. See the Symbolic FRU SLOTUSE for more information on the cause of this error.

**Failing Item:**

- SLOTUSE

---

### A2002300

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. A slot that was needed for the partition was unavailable. See the Symbolic FRU SLOTUSE for more information on the cause of this error.

**Failing Item:**

- SLOTUSE

---

### A2002310

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A2002320

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A2002425

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A2002426

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A2002475

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. A slot that was needed for the partition was either empty or the device in the slot has failed. See the Symbolic FRU SLOTUSE for more information on the cause of this error.

If you have a RAID enablement card (CCIN 5709) on your system, it will disable an embedded SCSI adapter. If that embedded slot is called out in the error, you can safely ignore this error.

**Failing Item:**

- SLOTUSE

---

### A2002477

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** No service action required.

---

### A2002479

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** No service action required.

## A2002485 • A2D03010

---

### A2002485

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A2003123

**Explanation:** System log entry only, no service action required

---

### A2008080

**Explanation:** System log entry only, no service action required

**Response:** No service action required.

---

### A2008108

**Explanation:** A problem occurred during the IPL of a partition.

---

### A2009010

**Explanation:** A problem occurred during the IPL of a partition.

---

### A2009020

**Explanation:** A problem occurred during the IPL of a partition.

---

### A2009030

**Explanation:** A problem occurred during the IPL of a partition.

---

### A200B07B

**Explanation:** System log entry only, no service action required

**Response:** No service action required.

---

### A200C220

**Explanation:** A problem occurred during the IPL of a partition.

---

### A200C225

**Explanation:** A problem occurred during the IPL of a partition.

---

### A200C230

**Explanation:** A problem occurred during the IPL of a partition.

---

### A2D03000

**Explanation:** User-initiated immediate termination and MSD of a partition.

**Response:** No service action required.

---

### A2D03001

**Explanation:** User-initiated RSCDUMP of RPA partition's PFW content.

**Response:** No service action required.

---

### A2D03002

**Explanation:** User-initiated RSCDUMP of IBM i partition's SLIC bootloader and PFW content.

**Response:** No service action required.

---

### A2D03010

**Explanation:** The Hypervisor initiated an LPADUMP.

---

## (A6xx) Reference codes

---

### A600000

**Explanation:** Operating system status code.

**Response:** This reference code is for information only. It is shown in the Product activity log as a side effect of a condition that was detected by LIC.

Normally, no action should be taken as a result of information reference codes. However, to isolate the root cause, use these suggestions:

1. Examine the date and time of the informational reference code.
  2. Determine if any other reference codes have been logged at or before the same date and time.
  3. Begin the service approach based on these other logged errors.
- 

### A6000102

**Explanation:** A machine check occurred during IPL.

**Response:** Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9 before attempting to IPL again and report the problem to your Software Service Provider.

---

### A6000103

**Explanation:** Main storage dump must be copied for service.

**Failing Item:**

- LICIP01
- 

### A6000104

**Explanation:** Terminate Immediate reference code is bad.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6000105

**Explanation:** More than one request to terminate the system was issued.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6000106

**Explanation:** Terminate Immediate data is not valid.

---

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6000107

**Explanation:** Main storage dump must be copied for service.

**Response:** The server detected an unrecoverable machine check condition.

Collect all the words of the SRC and the main store dump and send to your system manufacturer for analysis.

---

### A6000109

**Explanation:** An unrecoverable memory error occurred.

**Response:** Re-IPL the partition that terminated. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View that indicate the replacement of memory in the failing item list. If there are no B1xxxxxx SRCs in the Serviceable Event View that indicate a memory problem, perform a slow boot by using Performing a slow boot in order to run diagnostics on the memory. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View.

**Failing Item:**

- SVCDOCS
- 

### A6000202

**Explanation:** Unrecoverable read error.

**Response:** Restore the Licensed Internal Code using Utilities to install and restore IBM i Licensed Internal Code.

---

### A6000210

**Explanation:** The system ASP has run out of disk storage.

**Response:** The out of storage condition in the system ASP can be caused by an allocation failure in some other system software. This could be a looping condition that continues to allocate storage. Contact your service representative for assistance with the Main Storage Dump.

---

### A6000231

## A6000232 • A6000308

**Explanation:** Disk sanitize action completed successfully.

**Response:** No service action required. This entry is logged for information only.

---

### A6000232

**Explanation:** Disk sanitize action did not complete successfully.

**Response:** Provide the Product Activity Log entry to your next level of support for analysis.

---

### A6000244

**Explanation:** Contact was lost with the device indicated.

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
  - FI00580
  - FI00500
  - FI00302
  - FI00301
  - AJDG301
- 

### A6000255

**Explanation:** Contact was lost with the device indicated.

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
  - FI00580
  - FI00500
  - FI00302
  - FI00301
  - AJDG301
- 

### A6000266

**Explanation:** Contact was lost with the device indicated.

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
  - FI00580
  - FI00500
- 

- FI00302
  - FI00301
  - AJDG301
- 

### A6000299

**Explanation:** Informational LIC state SRC.

---

### A6000302

**Explanation:** Recursion in exception handler.

This SRC is an IBM i software event. If this SRC was reported as a serviceable event or if this SRC appears on the IBM i LPAR's panel then report the SRC as an IBM i software problem.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6000304

**Explanation:** Component specific exception handler return code not valid.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6000305

**Explanation:** Exception while storage management lock is held.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6000307

**Explanation:** LIC exception code detected a problem.

**Response:** Component Specific Exception Handler recursion is detected in an IBM i Operating System process.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6000308

**Explanation:** LIC exception code detected a problem.

**Response:** Component Specific Exception Handler recursion is detected in an IBM i Operating System process.

**Failing Item:**

- LICIP08



- AJDG301

---

**A6000317**

**Explanation:** Traceback for code not found.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000323**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000324**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000325**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000326**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000327**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000328**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000329**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000333**

**Explanation:** A branch to a bad address was attempted.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000334**

**Explanation:** Exception Handler could not be removed.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000335**

**Explanation:** Code resumed to not valid address following exception.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000336**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000401**

**Explanation:** A machine check occurred during IPL.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000402**

**Explanation:** A machine check occurred during authority initialization.

**Failing Item:**

- LICIP08
- AJDG301

## A6000403 • A6000418

---

### A6000403

**Explanation:** Unhandled exception during IPL or install.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000405

**Explanation:** Unhandled exception in authority recovery.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000406

**Explanation:** Unhandled exception in data base recovery.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000407

**Explanation:** Unhandled exception in data base initialization.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000408

**Explanation:** Unhandled exception in journal recovery.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000409

**Explanation:** Unhandled exception in journal synchronization.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000410

**Explanation:** Unhandled exception in journal clean up.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000411

**Explanation:** Unhandled exception in commit recovery.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000412

**Explanation:** Unhandled exception in commit initialization.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000413

**Explanation:** Rebuild of recovery object index failed.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000414

**Explanation:** Install of operating system failed on read from media.

**Failing Item:**

- LICIP08
- FI00300

---

### A6000415

**Explanation:** Create user profile failed.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000417

**Explanation:** Initiating the initial process failed.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000418

**Explanation:** The information loaded from the install media is not valid.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6000419**

**Explanation:** The information loaded from the install media is not valid.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000420**

**Explanation:** The information loaded from the install media is not valid.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000421**

**Explanation:** Bad return code creating a queue or message.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000422**

**Explanation:** The Load/Dump command failed.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000439**

**Explanation:** Opening the IPCF connection failed.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000440**

**Explanation:** Termination code is not valid.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000441**

**Explanation:** Power off system command failed.

**Failing Item:**

- LICIP08
  - AJDG301
- 

---

**A6000443**

**Explanation:** Programmed IPL command failure.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000446**

**Explanation:** Error during machine termination.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000447**

**Explanation:** Failure to reach MI boundary.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000449**

**Explanation:** Exception in MI boundary manager.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000506**

**Explanation:** Attempt to destroy a task with critical flag on.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000507**

**Explanation:** A critical process terminated. This SRC will be in the LPAR's panel.

LIC detected an attempt to terminate a process with its critical flag set to ON. Normally this process will be SCPE.

This is a secondary affect of the process termination request for a critical process that was caused by a system error condition that began process termination. The system error condition that began process termination is most commonly a storage error or LIC exception handling.

**Response:** Perform LICIP08 - save and send in the Main Store Dump, collect LIC and Product Activity Logs.

**Failing Item:**

## A6000607 • A6001103

- LICIP08
- AJDG301

---

### A6000607

**Explanation:** Maximum stack size exceeded in process or task.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000620

**Explanation:** Event management index is not usable.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000650

**Explanation:** Resource management segment could not be created or extended.

**Response:** A main store dump was initiated.

Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9.

Perform a system IPL and collect the Product activity log and main store dump and provide them along with the recorded SRC information to IBM Service Support.

The problem may also be that there is not enough auxiliary storage.

**Failing Item:**

- AJDG301

---

### A6000801

**Explanation:** Invalid LID directory detected.

**Response:** During system IPL, the LIDMgr detected an I/O failure or media failure while trying to read the LID directory.

**Failing Item:**

- LICIP08
- FI00070
- FI00300
- AJDG301

---

### A6000802

**Explanation:** LID directory unusable.

**Response:** During system IPL, the LIDMgr detected that the LID directory and associated Load Source is not usable.

Reinstall the Licensed Internal Code by using Utilities

to install and restore IBM i Licensed Internal Code.

For more information, contact IBM Service Support.

**Failing Item:**

- AJDG301

---

### A6000901

**Explanation:** The LinkLoader has found its bad flag ON.

**Response:** This reference code is usually the result of a system termination while the LinkLoader is performing its work.

Reinstall the Licensed Internal Code by using Utilities to install and restore IBM i Licensed Internal Code.

---

### A6000902

**Explanation:** Unable to perform programmed IPL.

**Response:** The LinkLoader was not successful in performing a programmed IPL.

Perform a system IPL. If the problem persists, examine the main storage dump and determine the reason for the failure of the programmed IPL.

---

### A6000903

**Explanation:** The LinkLoader was not able to allocate a segment.

**Response:** Perform the D mode IPL again. If the problem persists, there might be a memory problem. Contact your next level of support.

---

### A6000904

**Explanation:** The LinkLoader was not able to load a critical LID.

**Response:** Perform the D mode IPL again. If the problem persists, contact your next level of support.

---

### A6001001

**Explanation:** Enqueuing a task to the TDQ which is already enqueued on TDQ.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6001103

**Explanation:** MISR not readable; must be readable for Normal Mode install.

**Response:** MISR is not readable. Perform a manual install to reinitialize the system.

---

**A6001104**

**Explanation:** Failure reading media or not install media.

**Response:** Determine that correct install media is loaded. If correct install media is installed, media could be corrupt. Obtain another copy of the install media and re-attempt the install. If the install still fails, contact your service representative.

---

**A6001201**

**Explanation:** Critical database segment could not be created.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001204**

**Explanation:** Error in constraint enforcement.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001210**

**Explanation:** Object not found in the in-use table.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001215**

**Explanation:** Error in critical code sequence.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001219**

**Explanation:** A back leveled driver has been detected.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001604**

**Explanation:** Not able to create APPN task.

**Response:** An error occurred during task creation which requires a power off of the system.

**Failing Item:**

- LICIP08

- AJDG301

---

**A6001724**

**Explanation:** An attempt to create a segment failed.

**Response:** The create could fail for two reasons:

- A code problem. Perform the procedure indicated in the failing item list.
- No free auxiliary storage on the system. Add additional DASD if the create failed because no auxiliary storage was available.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001730**

**Explanation:** An IPL is needed to restore system performance.

**Response:** Licensed Internal Code has detected a condition that is impacting system performance. System operation can continue, but system performance may be noticeably reduced until the next IPL.

Look at the Product Activity Log entry, and find the value at offset x'000180'. If the value equals x'00000122', the error was caused by too much processor memory being installed.

For more information, contact IBM Service Support.

**Failing Item:**

- UPLF1

---

**A6003000**

**Explanation:** LPAR service function directed a Main Storage Dump.

**Response:** Copy the current main storage dump to media. For more information on how to copy a Main Storage Dump, refer to Copying a main storage dump.

**Failing Item:**

- AJDG301

---

**A60041FC**

**Explanation:** Installation of LIC failed.

**Response:** Words 12 and 13 of this SRC contain additional diagnostic information.

Install LIC using physical media.

To determine what caused the failure, collect SRC information and contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**A60041FD**

**Explanation:** Installation of LIC failed.

**Response:** A main store dump was initiated. Words 12 and 13 of this SRC contain additional diagnostic information.

To recover the partition using the previously installed LIC, perform a B-mode IPL. You can then re-try the installation of LIC. Otherwise, install LIC using physical media.

To determine what caused this failure, collect SRC information and main store dump and contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**A6004401**

**Explanation:** Missing DASD units.

**Response:** Copy the current main storage dump to media.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6004402**

**Explanation:** Missing DASD units.

**Response:** Copy the current main storage dump to media. Then exit the Main Storage Dump Manager.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6004403**

**Explanation:** Storage Management failed to reach full paging.

**Response:** Copy the current main storage dump to media.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6004404**

**Explanation:** Auto copy failed or not attempted.

**Response:** Copy the current main storage dump. If copying to system ASP, existing copies may need to be deleted or renamed. Then exit the Main Storage Dump Manager.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6004405**

**Explanation:** System ASP threshold exceeded after auto copy done.

**Response:** Delete other system ASP copies or exit the Main Storage Dump Manager and then from DST copy the Auto Copy to media and then delete the Auto Copy in system ASP.

---

**A6004420**

**Explanation:** MSD Manager not configured to save dump information.

**Response:** The platform produced dump data, but the Main Storage Dump (MSD) Manager was not configured to automatically copy the dump to an Auxiliary Storage Pool (ASP). The dump will be lost if the system power is lost. Use MSD Manager to manually copy the current platform dump to media or an ASP.

---

**A6004421**

**Explanation:** Insufficient space in the ASP to store a platform dump.

**Response:** The platform produced dump data, and the Main Storage Dump (MSD) Manager was configured to automatically copy the dump to an Auxiliary Storage Pool (ASP), but there was not sufficient free space available in the ASP. The dump will be lost if the system power is lost. Manually copy the current platform dump from the platform by performing one of the following:

- Make room in the designated ASP and then use the MSD Manager to copy the current platform dump to ASP.
- Use the MSD Manager to delete other dump copies, then copy the current platform dump to ASP.
- Use the MSD Manager to copy the current platform dump to a different ASP.
- Use the MSD Manager to copy the current platform dump to media.

---

**A6004422**

**Explanation:** A platform dump is saved in MSD Manager.

**Response:** The platform produced dump data. The dump data was copied to the Main Storage Dump (MSD) Manager.

**Failing Item:**

- PLDUMP
-

---

**A6004700**

**Explanation:** Processor On Demand error detected.

**Response:** Processor on Demand Data Block key is not valid.

Replace the Processor Capacity card.

**Failing Item:**

- CTLPNCD
- 

**A6004701**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand Data Block contains data that does not match the expected data.

Contact your service provider.

**Failing Item:**

- AJDG301
- 

**A6004703**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand Serialization has failed during IPL.

Contact your service provider.

**Failing Item:**

- AJDG301
- 

**A6004710**

**Explanation:** Processor On Demand error detected.

**Response:** SPCN communication failure during Processor On Demand.

Look in the Product Activity Log for other SPCN errors and perform the actions indicated for those errors.

**Failing Item:**

- SPNLCRD
- 

**A6004712**

**Explanation:** Processor On Demand error detected.

**Response:** Correct any Processor Capacity card or SPCN failures.

**Failing Item:**

- CTLPNCD
- 

**A6004713**

**Explanation:** Incorrect Processor Capacity Card installed.

**Response:** The Processor Capacity Card is the failing

item since it has been swapped in from a different system.

Put the Processor Capacity Card back in the system it came from, and reinstall this system's original Processor Capacity Card.

**Failing Item:**

- CTLPNCD
- 

**A6004714**

**Explanation:** The CUoD data is not present. A problem may exist.

**Response:** The Processor Capacity Card was changed and there may be a problem.

If the system did have any activated standby processors before the Processor Capacity Card was replaced, then new processor on demand activation codes must be obtained to restore the previous activations.

Contact your service provider.

---

**A6004715**

**Explanation:** Processor On Demand error detected.

**Response:** Correct any Processor Capacity card or SPCN failures.

**Failing Item:**

- CTLPNCD
- 

**A6004730**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand standby processors are in use.

Contact your service provider.

**Failing Item:**

- AJDG301
- 

**A6004731**

**Explanation:** Processor On Demand error detected.

**Response:** The Processor On Demand Trial Activation period is not valid. Contact your next level of support.

**Failing Item:**

- AJDG301
- 

**A6004733**

**Explanation:** Processor On Demand error detected.

**Response:** Contact your service provider.

**Failing Item:**

- AJDG301

## A6004740 • A6005007

---

### A6004740

**Explanation:** Processor On Demand error detected.

**Response:** The Processor On Demand Activation code just entered is not valid.

Contact your next level of support.

**Failing Item:**

- AJDG301

---

### A6004741

**Explanation:** Processor On Demand error detected.

**Response:** An invalid Processor On Demand Activation code has been entered more than 5 consecutive times. Contact your service provider.

**Failing Item:**

- AJDG301

---

### A6004745

**Explanation:** Processor Capacity card replaced on activated POD system.

**Response:** Contact IBM Support to order a replacement Processor On Demand activation code.

---

### A6004747

**Explanation:** 1 hour left in POD 14 day Trial Activation Period.

**Response:** If a new activation code was purchased, it should be entered now. Otherwise, the system will revert back to its previous activation state at the end of the Trial Activation Period.

---

### A6005001

**Explanation:** DST received no response from a workstation controller.

**Response:** The workstation I/O processor for the system or partition console did not respond.

**Failing Item:**

- RTRIP01
- FI00380
- AJDG301

---

### A6005002

**Explanation:** DST problem attempting to use the system console.

**Response:** A code problem occurred during an attempt to use the system console.

**Failing Item:**

- LICIP03

- AJDG301
- FI00380

---

### A6005003

**Explanation:** Service program failed.

**Response:** The ASCII system console failed to respond.

**Failing Item:**

- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

### A6005004

**Explanation:** DST console failed to respond.

**Response:** The system console failed to respond.

**Failing Item:**

- RTRIP02
- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

### A6005005

**Explanation:** Service program failed.

**Response:** The workstation adapter system console failed to respond.

**Failing Item:**

- WSAIP01
- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

### A6005007

**Explanation:** Service program failed.

**Response:** The workstation adapter console failed to respond.

**Failing Item:**

- RTRIP07
- FI00320
- FI00602
- USER



- AJDG301
- FI00380

---

### A6005008

**Explanation:** DST console failed to respond. If an IPL did not find a console and if the console type is set to anything except a 1, the system will display code A6005008.

**Response:** If you just replaced the LAN adapter associated with Operations Console (LAN), you need to wait at least 35 minutes for the system to find and use the new LAN adapter. In this case, when the system is satisfied, it starts using the new adapter. The console should start, and the SRC is no longer shown.

If you are attempting to use a twinaxial console the only data relevant in this SRC is word 6. Use the information in the list below for the meaning of word 6 to determine the twinaxial failure. The first 4 characters of word 6 contains the last 4 characters of the original failure type. For example, if word 6 contained 50010001, the twinaxial-related SRC would be A6005001 and the console type is set to use a twinaxial console. Refer to that SRC. Word 6 in the form of xxxx yy zz means the following:

- xxxx where:
  - The twinaxial-related SRC is represented by the first 4 characters.
- yy where:
  - 0A = No console tagged
- zz where:
  - 00 = Not defined by user (old default value)
  - 01 = Twinaxial
  - 02 = Operations Console (Direct) (obsolete)
  - 03 = Operations Console (LAN )
  - 04 = Hardware Management Console (HMC) or Thin Console

If you are attempting to use Operations Console, the local console on a network uses words 3, 4, and 5. Use words 3 through 5 to select the appropriate section in the following list.

1. Word 3 is "1": No supported HW detected or HW detected is not expected (for example, you replaced the LAN IOA so the serial number is different) In some cases the serial number of the expected adapter may be shown in word 5.
2. Word 3 is "2": The LAN IOA failed to report.
3. Word 3 is "3": Hardware error. Common error codes in word 4:
  - 53001A80 and 53002AC0: Network, cable or the LAN adapter may not be operational. Word 5 may contain the card position or serial number of the adapter.

- 00000000: This error code indicates the adapter reported but has not been initialized yet. This is not considered an error, at this time. The adapter should be activated shortly. Word 5 may contain the card position or serial number of the adapter.
- CC10031A: Adapter was activated but did not reach LinkUp state. The card was given more than a minute to link up to its partner (probably a switch) and it didn't do so. Likely conditions:
  - The cable is unplugged on one end or the other, or is defective.
  - The switch port is not operational.

Once this error code is received, the problem will not resolve itself until something restarts the device driver. Word 5 may contain the card position or serial number of the adapter.

- For other error codes contact your service provider. Word 5 may contain the card position or serial number of the adapter.
4. Word 3 is "4": BOOTP status: Word 4 contains the number of attempts. If attempts are zero, then BOOTP is ready, when called. If attempts have a value, then the PC did not respond. Word 5 may contain the card position or serial number of the adapter.
  5. Word 3 is "5": The system's LAN connection is active but the PC failed to connect. Are the PC and system on the same network and using the same protocol? Can the PC ping the system? (ping serverhostname). Word 4 contains the IP address. Word 5 may contain the card position or serial number of the adapter.

**Problem determination:** Look at words 3-8 on the console. If words 3-5 are non-zero the failing item is most likely an ASYNC card. If words 6-8 are non-zero the failing item is most likely a LAN card.

Word 7 meanings for the failure identified:

- 1 Async card not detected.
- 2 No cables detected. Word 8 is the Card position. Word 9 is the card type.
- 3 Wrong cable detected. Word 8 is the card position. Word 9 is the cable ID.
- 4 Port in use. Word 8 is the card position. Word 9 is the card type.
- FA Not configured for direct cable

Note: It is expected that a D-mode IPL with a new load source direct access storage device (DASD) will show the console type value of 00. Examples of when this can occur might be that the copy of data from a failing DASD did not copy all data or you are installing a new logical partition. Also, there are times when the DASD is late reporting and the console type value was not retrieved in time. In these cases you can use the console service function to set a console type value or attempt to contact the console again.

## A6005010 • A6005120

### Failing Item:

- OPCIP03
- FI00719

---

### A6005010

**Explanation:** IPL service function ended abnormally.

### Failing Item:

- LICIP04
- AJDG301

---

### A6005014

**Explanation:** DST status. The Storage Management Dual Path Information Screen option to dump data to a PAL has completed successfully.

---

### A6005015

**Explanation:** DST error. An error has occurred gathering data for the Storage Management Dual Path Information Screen option to dump data to a PAL. Contact your next level of support or hardware service provider.

### Failing Item:

- NEXTLVL

---

### A6005082

**Explanation:** DST lost contact with the console.

**Response:** A service program lost contact with the system console.

### Failing Item:

- RTRIP03
- AJDG301
- USER

---

### A6005083

**Explanation:** IPL service function ended abnormally.

**Response:** A service program lost contact with the system console.

### Failing Item:

- TWSIP01
- AJDG301
- USER

---

### A6005090

**Explanation:** System startup failed in unattended IPL mode.

**Response:** Perform the following:

- If reference code A6xx5090 is displayed on the control panel for more than 10 minutes, perform the procedure indicated in the failing item list.
- For reference code B6xx5090, perform the procedure indicated in the failing item list.

### Failing Item:

- LICIP11
- FI00580
- FI00500
- FI00301
- FI00021
- FI00065
- AJDG301

---

### A6005092

**Explanation:** System is in DASD migration mode.

**Response:** Install Licensed Internal Code and Upgrade Load Source was specified but the key is not in the manual position. Change the key position to manual and perform a system IPL.

---

### A6005094

**Explanation:** IASP detected a failure during the vary on operation.

### Failing Item:

- LICIP12

---

### A60050FF

**Explanation:** DST unrecoverable program error.

### Failing Item:

- LICIP03
- AJDG301
- FI00380

---

### A6005120

**Explanation:** System LIC detected a program exception.

**Response:** System LIC detected a programming problem. If performance or other system degradation is occurring, the system may be operating with reduced resources.

Check the Product activity log for related entries. If this reference code is logged with an error class of Informational, then no action is required.

Otherwise, perform the procedure indicated in the failing item list.

### Failing Item:

- LICIP01
- AJDG301

- FI00130

---

**A6005121**

**Explanation:** LIC program exception occurred.

**Response:** System LIC detected a programming problem for which a main storage dump may have been initiated. Collect the dump if available.

A problem log entry may be generated for this refcode.

**Failing Item:**

- LICIP01
- AJDG301

---

**A6005122**

**Explanation:** LIC program exception occurred.

**Response:** System LIC detected an IOP programming problem for which an IOP dump may have been initiated.

**Failing Item:**

- LICIP01
- FI00130
- AJDG301
- FI00131

---

**A6005123**

**Explanation:** LIC program exception occurred.

**Response:** System LIC detected an interface problem with the IOP or an IOP programming problem for which an IOP and main storage dump may have been initiated.

**Failing Item:**

- LICIP01
- FI00130
- AJDG301
- FI00131

---

**A6005126**

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DISKTRY
- FI01106
- FI01140
- FI01141
- DEVTERM
- BACKPLN

---

**A6005127**

**Explanation:** IOP timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- DISKTRY
- FI01140
- FI01141
- DEVTERM
- BACKPLN

---

**A6005128**

**Explanation:** I/O processor failure.

**Failing Item:**

- FI01112
- FI01107

---

**A600512D**

**Explanation:** An IOP dump was initiated.

**Response:** Copy the IOP dump entry and any related entries from the Product Activity Log to suitable media, and give to an IBM service representative.

---

**A600512E**

**Explanation:** LIC program exception occurred.

**Response:** The system was in a D IPL mode when the problem was detected. A main storage dump was not taken.

**Failing Item:**

- LICIP01
- AJDG301
- FI00130

---

**A6005192**

**Explanation:** Insufficient entitled memory for the I/O configuration.

**Response:** Use the hardware management console to increase the entitled memory capacity of the partition and restart the I/O adapter. To restart a storage I/O adapter, use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. To restart a communications I/O adapter, vary the line off and vary it on using the vary configuration (VRYCFG) command.

**Failing Item:**

- SVCDOCS

---

**A6005193**

**Explanation:** Virtual adapter not supported in a shared memory partition.

**Response:** Use the hardware management console to remove the virtual adapter from the partition.

**Failing Item:**

- SVCDOCS
- 

**A6005194**

**Explanation:** Insufficient entitled memory for the I/O configuration.

**Response:** Use the hardware management console to increase the entitled memory capacity of the partition and restart the partition.

**Failing Item:**

- SVCDOCS
- 

**A6005206**

**Explanation:** System LIC detected a missing IOP LIC code load.

**Response:** System LIC detected a missing IOP LIC code load during IPL of the IOP. This indicates that either the IOP code load is not installed on the system Load Source device or that system LIC was unable to successfully read that load from the Load Source device.

**Failing Item:**

- LICIP01
  - USER
- 

**A6005209**

**Explanation:** System LIC detected an IOP timeout during IOP IPL.

**Response:** Verify that all IOP cable connections are secure, and check tape and other non-disk devices and media to verify that they are in a ready state.

**Failing Item:**

- LICIP01
  - USER
  - FI00130
  - AJDG301
- 

**A6005219**

**Explanation:** LIC program exception occurred.

**Response:** An IOP signaled to system LIC that it had entered a critical internal state. LIC automatically attempted to restart the IOP.

This reference code is logged for information only. No action is required.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- FI00310
  - FI00318
  - FI00065
  - FI00130
  - AJDG301
- 

**A6005275**

**Explanation:** The system issued a reset/reload to the IOP.

**Response:** System Licensed Internal Code detected that an IOP Reset/Reload has occurred, and that the IOP successfully recovered.

Users who were signed on to a Workstation device under the IOP will need to sign back on. Any LAN/WAN communications lines under the IOP will need to be restarted. Tape/Optical devices under the IOP may need to be varied back on.

To determine the cause of the IOP Reset/Reload, check the Product Activity Log for additional entries logged with the same System Log ID, and perform any actions indicated for those errors.

---

**A6005276**

**Explanation:** IOP Reset was issued.

**Response:** LIC has detected a problem with the Service Processor IOP and has reset it but has not initiated reload of the Service Processor.

If the Load Source is mirrored, some system operations may be able to continue normally. However, some system service operations have been suspended and the system should be scheduled for power down as soon as possible.

**Failing Item:**

- RTRIP08
  - AJGLD01
  - AJDG301
  - FI00021
- 

**A6005310**

**Explanation:** LIC program exception occurred.

**Response:** System LIC detected a logical partition configuration data consistency error. Copy the Product Activity Log data for this error and any related entries

and contact your next level of hardware service support.

**Failing Item:**

- LPARSUP

**A6005311**

**Explanation:** LIC program exception occurred.

**Response:** LPAR configuration data does not match current system configuration. The system will not IPL past DST until the problem is corrected.

Following is a list of problems which may have caused this SRC to be reported:

- Non-configured disk unit which was previously a load source on a partitioned system.
- Load Source configuration data does not match partition for which it is being used.
- Load Source configuration data does not match system serial number for which it is being used.
- Load Source configuration data is newer than primary partition configuration data.

**Failing Item:**

- LPRIP01
- LPARSUP

**A6005312**

**Explanation:** LIC program exception occurred.

**Response:** LPAR configuration data informational error.

The LPAR configuration data was found to be in error or inconsistent on a secondary partition's Load Source. The data was automatically updated to the current system level.

**A6005313**

**Explanation:** LIC program exception occurred.

**Response:** LPAR configuration data informational error.

The LPAR configuration data was found to be inconsistent on a primary partition and could only be corrected with an older copy of the data.

**Failing Item:**

- LPARCFG

**A6005340**

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the Primary partition's Product Activity Log for system processor entries from

approximately the same time. Perform the actions indicated for those entries.

**A6005341**

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the primary partition Product Activity Log for system memory entries from approximately the same time. Perform the actions indicated for those entries.

**A6005342**

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.

**A6005343**

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the Primary partition's Product Activity Log for system memory errors from approximately the same time. Perform the actions indicated for those entries.

**A6005344**

**Explanation:** Secondary partition not running at optimum.

**Response:** The interactive performance specified in the configuration data for this partition could not be met.

Contact your next level of support.

**Failing Item:**

- LPARSUP

**A6005350**

**Explanation:** Secondary partition software release not supported.

**Response:** The logical partition software version is outside the supported release delta.

Check the Release Delta from the Primary partition "Display Partition Release Level" screen.

Check the LPAR documentation for the release level of the Primary partition and determine what the supported Release Delta is.

---

**A6005380**

**Explanation:** LIC program exception occurred.

**Response:** Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

**A6005390**

**Explanation:** LIC program exception occurred.

**Response:** Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

**A6005505**

**Explanation:** The copying of DASD log data to the IOP log was successful.

**Response:** IOP log data can be copied to a spool file for examination by the development lab.

---

**A6005555**

**Explanation:** SLIC I/O DASD subsystem error recovery in progress.

---

**A6005600**

**Explanation:** Unrecoverable read error.

**Response:** VPD data could not be read.

Look for other errors implicating hardware. There is no way to know what VPD read has failed, but the resource is not usable and should generate an error.

If no such error occurred, call your next level of support.

**Failing Item:**

- SVCDOCS

---

**A6006900**

**Explanation:** System bus error.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6006901**

**Explanation:** Bus Expansion Adapter card failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6006902**

**Explanation:** Bus Expansion Adapter card failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6006905**

**Explanation:** Optical bus failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6006906**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** LIC could not access part of the HSL I/O bridge VPD. The bridge and HSL loop may be prevented from becoming operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
  - OPT\_CLN
-

---

**A6006907**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** LIC detected invalid data in the HSL I/O bridge VPD. The bridge and HSL loop may not have become operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the hardware management console, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
  - OPT\_CLN
- 

**A6006908**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** LIC data in the I/O bus VPD could not be accessed. The I/O Bus identified in the SRC may not have become operational.

If there is a B6xx 6906 reference code, close this problem in the serviceable event view you are working with and work the 6906 error.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event view on the hardware management console or service processor is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
  - OPT\_CLN
- 

**A6006909**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** LIC detected invalid data in the I/O bus VPD. The bus and resources associated with it may not be operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

If the serviceable event view only indicated a frame or enclosure see the locations section for the frame or enclosure type. The location of the HSL I/O Bridge will be given in the locations tables.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
  - OPT\_CLN
- 

**A600690A**

**Explanation:** Associated adapter not found in this partition.

**Failing Item:**

- LICIP16
- 

**A6006910**

**Explanation:** I/O processor failure.

**Response:** An I/O processor timed out, returned bad status, or is not following the system bus protocol.

**Failing Item:**

- LICIP07
- FI00310
- FI00318
- FI00065
- FI00130

## A6006938 • A6006963

- AJDG301

---

### A6006938

**Explanation:** Not valid system configuration detected.

**Response:** This system model does not allow a configuration of more than three (non-OptiConnect) I/O Processors.

Power down the system and remove the extra (non-OptiConnect) I/O Processor(s) so that there are three or less. Restart the system.

---

### A6006944

**Explanation:** Missing or failed I/O processor cards.

**Response:** A system bus appears to be empty. If the bus is not empty, two I/O processors in consecutive slots may be missing or broken. If there are broken I/O processors, then another more serious SRC has occurred. Otherwise find the bus number for this failure from the Product activity log and use the system configuration list to verify the configuration of the I/O processors on that bus.

**Failing Item:**

- FI00317
- FI00316
- AJDG301

---

### A6006960

**Explanation:** Multi-adapter Bridge or PCI Bridge card slot error, do not use card slot.

**Response:** Slot unavailable due to 64 bit card in adjacent slot.

One of the messages documented with the symbolic FRU will describe the problem. See SLOTERR symbolic FRU for a list of messages and corrective actions.

**Failing Item:**

- SLOTERR

---

### A6006961

**Explanation:** Multi-adapter Bridge or PCI Bridge card slot error, do not use card slot.

**Response:** LED control failure, do not use slot.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing

item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or a serviceable event viewer on the hardware management console is available for this problem then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOTERR
- MASBUS

---

### A6006962

**Explanation:** Multi-adapter Bridge or PCI Bridge card slot error, do not use card slot.

**Response:** Power control failure, do not use slot.

If there is a Linux partition in the system, any IOPs plugged into slots owned by a Linux partition will not power on. This error will be logged. Correct the situation by removing the IOP cards.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log, or serviceable event view on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOTERR
- MASBUS

---

### A6006963

**Explanation:** Multi-adapter Bridge or PCI Bridge card slot error, do not use card slot.

**Response:** Power control failure, do not use slot.



The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOERR
- MASBUS

**A6006964**

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** One of several errors or configuration problems has occurred under a Multi-adapter Bridge or PCI Bridge. If you are using the Service Action Log (SAL), or the serviceable event viewer on the hardware management console or the service processor, then the correct FRU, description and card position(s) will be listed. Use the FRUs and descriptions in the serviceable event view you are working with to determine the problem.

If you do not have access to the Service Action Log, or serviceable event view on the hardware management console or service processor, then word 4 of the SRC has more information. Examine the last 4 digits in word 4 to determine the problem by comparing them to the list below and using the FRU(s) listed here.

1. xxxx2022 - IOP found in slots owned by a Linux partition. The Multi-adapter Bridge or PCI Bridge and PCI Bridge set that it controls are assigned to a Linux partition. The IOP found in the SLOT indicated by the DSA in word 7 will not be configured.
2. xxxx2014 - I/O adapters were found under the Multi-adapter Bridge or PCI Bridge but there is no IOP to support them. The adapters cannot be used.
3. xxxx2015 - An card type was found that cannot be supported in the card position where it is located.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

**A6006965**

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** Card type not supported in this slot.

An I/O processor or I/O adapter card type is installed in the location indicated in word 7 of the SRC. The card type is not supported in that slot under the Multi-adapter Bridge or PCI Bridge. The card is unavailable.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

**A6006966**

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** I/O processor removed from Multi-adapter Bridge or PCI Bridge card slot.

On the previous IPL an I/O processor was in the card location specified in word 7 of the SRC. The I/O processor was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

**A6006967**

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** I/O adapter unavailable due to moved I/O processor card.

The I/O adapter specified in word 7 of the SRC is not available. On the previous IPL there was an I/O processor card the adapter was assigned to. The I/O processor was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

## A6006968 • A6006970

---

### A6006968

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** IOA removed from Multi-adapter Bridge or PCI Bridge slot.

On the previous IPL an I/O adapter was in the card slot specified in word 7 of the SRC. That I/O adapter was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

### A6006969

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** I/O adapter replaced by I/O processor card.

On the previous IPL there was an I/O adapter in the location specified in word 7 of the SRC. This IPL LIC detected that the IOA was replaced by an IOP in that location.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

### A600696A

**Explanation:** Card slot test failed.

**Failing Item:**

- LICIP14
- FI00131
- BACKPLN

---

### A600696B

**Explanation:** Card slot could not be validated.

**Response:** This can be caused by "PCI error injection policy" being set to "YES" and an I/O Processor being installed on the same Multi-adapter Bridge or PCI Bridge domain as the I/O Adapter. Do one of the following. Either:

-- Using the hardware management console or a customer PC with a Web browser access the Advanced System Management Interface (ASMI) and disable PCI error injection policy.

OR:

-- Vary off the I/O Adapter. Using Hardware Service manager in SST/DST, locate the I/O Adapter resource. Using concurrent maintenance on the associated packaging resource, remove the I/O Adapter and install it in a location that does not have I/O Processors on the same Multi-adapter bridge domain.

OR:

-- Vary off the I/O Adapter. Use the concurrent maintenance option in Hardware Service Manager in SST/DST to power off all I/O Processors located on the same Multi-adapter Bridge or PCI Bridge domain as the I/O Adapter. Use concurrent maintenance to power off and power on the I/O Adapter. Then use concurrent maintenance to power on the I/O Processors located on the same Multi-adapter Bridge or PCI Bridge domain as the I/O Adapter.

---

### A6006970

**Explanation:** High Speed Link (HSL) or PCI bridge card slot resource failure.

**Response:** A system PCI bus failure was detected. Word 7 of the SRC contains the bus number.

This failure can occur when a tower in an HSL loop is powered off using concurrent maintenance. If this is the case, close this problem.

This error is most likely in the hardware that makes up the PCI bus, the PCI bus side of the HSL I/O bridge or the Multi-adapter Bridge or PCI Bridge. In some cases it may be caused by a failing IOP in the Multi-adapter Bridge or PCI Bridge domain. When an IOP is causing the problem, the failing IOP cannot be identified.

NOTE: This SRC can occur for the PCI bus resource on a PCI bus in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

If the Service Action Log, or serviceable event view on the hardware management console or service processor, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SI\_PHB
- PRI\_PCI
- MA\_BRDG
- MABIP03
- BRDGSET
- OPT\_CLN

---

**A6006971**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot resource failure.

**Response:** A failure occurred in a Multi-adapter Bridge or PCI Bridge or on the bus to the card location it controls.

If a serviceable event view is available, use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available, use the failing item list documented here.

**Failing Item:**

- MABIP02
- MA\_BRDG
- MASBUS
- PIOCARD

---

**A6006972**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot resource failure.

**Response:** Multi-adapter Bridge (MaB) or PCI Bridge failure detected.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- MA\_BRDG

---

**A6006973**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot resource failure.

**Response:** Multi-adapter Bridge or PCI Bridge has detected a problem in the card installed in the location specified in word 7 of the SRC. Use the FRU list in the Service Action Log (SAL), or serviceable event view you are working with. If you are working from this document's FRU list use the Symbolic FRU BRDGSET to determine the failing items.

**Failing Item:**

- BRDGSET
- SIOADP
- MA\_BRDG

---

**A6006974**

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** PCI I/O processor rejected the assignment of or the removal of an I/O adapter.

**Failing Item:**

- MABRCFG

---

**A6006975**

**Explanation:** The system issued a reset/reload to the service processor.

**Response:** Service processor error.

**Failing Item:**

- AJDGP01

---

**A6006976**

**Explanation:** Service processor failure.

**Response:** For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or a serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event viewer is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SVCPROC

---

**A6006980**

**Explanation:** Network Interface Controller / IO Hub failure.

**Response:** For Power5 and newer servers, service this error using the B7006980 service information. Otherwise, continue with this information.

The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

## A6006981 • A6006984

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

### Failing Item:

- SICNTRL
- OPT\_CLN

---

### A6006981

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** For Power5 and newer servers, service this error using the B7006981 service information. Otherwise, continue with this information.

Cycle power on the frame identified as the frame with failed HSL I/O Bridge prior to replacing FRUs.

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are using, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

If you find either a B6xx 6982 or B6xx 6984 SRC logged at approximately the same time as this SRC then they were caused by the same failure. If you find a 6982 SRC logged at approximately the same time then close this problem and service the 6982 SRC. The failing item listed for this SRC is one of the failing items listed for B6xx 6982. If the serviceable event view's entry for this SRC has a location listed then record the location for use in servicing the 6982 SRC.

NOTE: This SRC can occur for the HSL I/O Bridge resource in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

### Failing Item:

- SIIOADP
- OPT\_CLN

---

### A6006982

**Explanation:** High Speed Link (HSL) connection failure.

**Response:** For Power5 and newer servers, service this error using the B7006982 service information. Otherwise, continue with this information.

If this SRC is not in the Service Action Log (SAL) or serviceable event view you are using, then it is informational or statistical only. It does not require a service action.

Otherwise, this is a connection failure on an HSL link. Perform the procedure indicated in the failing item list.

### Failing Item:

- RIOIP09

- HSL\_LNK
- SIIOADP
- SICNTRL
- REM\_NIC
- OPT\_CLN

---

### A6006983

**Explanation:** A High Speed Link (HSL) / RIO / 12X loop configuration event was detected. The loop may have an unsupported configuration or a configuration that is not valid or the loop is in a state that LIC is logging for potential future reference.

**Problem determination:** LIC is reporting an event about the state of a RIO / HSL / 12X loop. Word 4 of the SRC contains the program return code (PRC) which identifies the state or problem with the loop.

For Power5 and newer servers, if this event appears in a serviceable event view then a service action is required. This SRC may also be logged as informational when it is recording information about the loop that is not a problem for the LPAR.

If this event does not appear in a serviceable event view then no service is required. To determine what the event meaning is record the PRC in word 4 of the SRC then use symbolic FRU SIRGCFG. This completes the procedure.

If this event appears in a serviceable event view then search for a B7006983 serviceable event logged at about the same time.

Did you find a B7006983 serviceable event logged at about the same time in the LPAR?

- YES - Service this error by working the B7006983 error.
- NO - Continue working this SRC. If you are using the Service Action Log (SAL) the FRU description may already indicate the configuration problem. Otherwise record the PRC in word 4 of the SRC. Use symbolic FRU SIRGCFG to determine the problem.

### Failing Item:

- SIRGCFG

---

### A6006984

**Explanation:** High Speed Link (HSL) loop status message.

**Response:** For Power5 and newer servers, service this error using the B7006984 service information. Otherwise, continue with this information.

An HSL loop has switched to its alternate path. This is an informational SRC only.

Word 7 of the SRC contains the loop number in the leftmost 4 digits. The loop number is in hexadecimal format. You must convert the hexadecimal loop number

into decimal format to recognize the loop number in HSM.

This SRC can be caused by a tower on the HSL loop powering off.

This SRC may also appear in the Service Action Log (SAL), or serviceable event viewer you are using, with a B6xx 6982 or B6xx 6981 logged at approximately the same time. In that case the other SRC is reporting a failure and this SRC is reporting that the alternate HSL path is now being used. Service the other SRC if present.

---

#### A6006985

**Explanation:** High Speed Link (HSL) loop status message.

**Response:** For Power5 and newer servers, service this error using the B7006985 service information. Otherwise, continue with this information.

If this SRC is not in the Service Action Log (SAL), or serviceable event view you are using, then it is informational. Use FRU SIRSTAT to determine what this SRC means. Otherwise, continue with the following steps:

This error can appear as a serviceable event when a tower, or I/O unit or another system in the loop did not complete powering on before LIC on this system checked this loop for errors. Search the Product Activity Log (PAL) for the last B6xx 6985 SRC logged for this loop and use FRU SIRSTAT to determine if this error requires service. If the last entry indicates the loop is functioning (determined by FRU SIRSTAT) then no service action is required, close this problem

There may be multiple B6xx 6985 logs with xxxx 3205 in word 4 errors for the same loop resource in the serviceable event view. This is caused by retry and recovery attempts. If there is a B6xx 6985 with xxxx 3206 or xxxx 3208 in word 4 after the above B6xx 6985 entries in the PAL, then the recovery efforts were successful. If this is the case, close all the B6xx 6985 entries for that loop resource in the serviceable event view.

1. If you find a B6xx 6981 in the serviceable event view then close that problem and go to step 2. Otherwise perform the following:
  - Perform RIOIP06 to determine if any other systems are connected to this loop and return here. (HSL\_LNK or HSLxxxx FRU in the Service Action Log (SAL) entry, or serviceable event view you are working with, indicates the loop number.) If there are other system(s) then continue with the steps that follow, otherwise go to step 2.
  - Check for HSL failures on the other system(s) before replacing parts. HSL failures are serviceable event entries with HSL I/O Bridge and Network Interface Controller (NIC)

resources. Ignore B6xx 6982 and B6xx 6984 entries. If there are HSL failures on other system(s) then continue with the steps that follow, otherwise go to step 2.

- Repair the problems on the other systems and return to this step. After making repairs on the other system(s) check the Product Activity Log (PAL) of this system for a B6xx 6985 logged after the repairs you made on the other system(s). If you find one then continue with the steps that follow, otherwise go to step 2.
  - For the B6xx 6985 log you found, use FRU SIRSTAT to determine if the loop is now complete. If the loop is complete then this problem has been resolved. Use RIOIP01 to verify that the loop is now working properly. Otherwise, go to step 2.
2. Use the serviceable event's FRU list when it is available. If this SRC appears in the Service Action Log (SAL), or the serviceable event view you are using, with the Symbolic FRU HSL\_LNK or HSLxxxx listed as a FRU, then perform problem isolation procedure RIOIP01. Otherwise exchange the FRUs listed in the serviceable event view.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

#### Failing Item:

- SIRSTAT
- HSL\_LNK
- SIOADP
- SICNTRL
- OPT\_CLN

---

#### A6006986

**Explanation:** System bus error.

**Response:** For Power5 and newer servers, service this error using the B7006986 service information. Otherwise, continue with this information.

During IPL, system LIC detected an HSL I/O bridge that was already initialized. The bridge should have been in a flushed and uninitialized state after powering on. There is a problem with SPCN components that prevented the tower from powering off after a previous power off was issued. The tower will not be configured for this IPL.

This reference code is equivalent to 1xxx 90F0. When referring to the "CBLALL" symbolic FRU in the Failing Item list, perform the "CBLALL" procedure using reference code "90F0".

Word 5 of the SRC identifies the frame. Determine the frame by breaking down word 5:

Word 5 -> xxxx xxNN where: NN is the frame number in hexadecimal format.

**Failing Item:**

- TWRCARD
- CBLALL

---

**A6006987**

**Explanation:** High Speed Link (HSL) connection failure.

**Response:** For Power5 and newer servers, service this error using the B7006987 service information. Otherwise, continue with this information.

Failures are occurring on the HSL link.

There may be B6xx 6982 errors logged on the same loop and about the same time as this error. Close those errors and continue to correct the problem by working this error.

- If there is a cable FRU in the serviceable event entry:
  1. If the connection is copper and either end has a loose connection, re-seat the cable. To do this, disconnect the connection and wait a minimum of 30 seconds. Then reconnect the cable and complete the tightening process in at most 30 seconds. Repeat the process at the other end of the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), or serviceable event view you are using.
  2. If the connection is optical, clean the connections at both ends of the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), serviceable event view you are using.
  3. If the error persists, replace the FRUs at each end of the cable starting with the FROM FRU listed in the serviceable event view you are using.
- If there was no cable in the Service Action Log (SAL), or serviceable event view you are using, then replace the FRUs listed in the serviceable event view.

**Failing Item:**

- HSL\_LNK
- OPT\_CLN

---

**A6006988**

**Explanation:** A High Speed Link (HSL / HSL2) or RIO / RIO-G loop was detected on the system this LPAR is running on. This version of the operating system does not support resources on an HSL / HSL2 / RIO / RIO-G loop. If resources on the loop are assigned to this LPAR, for example in the partition profile, the resources will not show up in this IBM i LPAR.

---

**A6006990**

**Explanation:** Service processor failure.

**Response:** The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

**Failing Item:**

- SVCPROC

---

**A6006991**

**Explanation:** Service processor failure.

**Failing Item:**

- AJDGP01

---

**A6006992**

**Explanation:** Service processor failure.

**Failing Item:**

- AJDGP01

---

**A6006993**

**Explanation:** Service processor failure.

**Response:** A failure occurred with the service processor hardware or the service processor LIC.

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

**Failing Item:**

- SVCPROC
- AJDGP01

---

**A6006994**

**Explanation:** Service processor failure.

**Response:** The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

**Failing Item:**

- SVCPROC

---

**A600699C**

**Explanation:** Wrap plug is installed on Bus Expansion Adapter card.

**Response:** This reference code is for information only.

It indicates the presence of a wrap plug on the local optical link card.

---

#### A60069A8

**Explanation:** Informational bus reference code.

**Response:** This reference code is for information only and might include the following:

- Optical speed encode.
- Broken optical links now operational.
- Other information.

---

#### A60069B8

**Explanation:** Bus hardware configuration problem.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

#### A60069C1

**Explanation:** A failure occurred communicating with another LPAR or system participating in Opti-connect with this LPAR or system. Starting with IBM i release 7.1 this event will be logged in the Product Activity Log but it will not be in the Service Action Log or the Problem Log. This event normally occurs when the other LPAR or system is powered off. If both LPARs or systems are running and have no Opti-connect errors then this event is indicating a possible problem with Opti-connect.

**Response:** Contact your next level of support if you suspect an Opti-connect problem. Otherwise this is a tracking event.

**Failing Item:**

- NEXTLVL

---

#### A60069C2

**Explanation:** HSL Opticonnect normal connect to another sys. or partition.

**Response:** This reference code is informational only.

HSL OptiConnect has established connection normally. The local system or partition is participating in HSL Opticonnect with other systems or partitions on the same HSL loop.

---

#### A60069C3

**Explanation:** HSL Opticonnect normal disconnect from other sys. or partition.

**Response:** This reference code is informational only.

HSL Opticonnect disconnected normally from a remote node. The local system or partition has stopped

participating in HSL Opticonnect with the remote system or partition on the same HSL loop. Possible reasons include:

- A remote system or partition went off line due to a normal power off or disable of HSL Opticonnect.

---

#### A60069C5

**Explanation:** I/O processor failure.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

#### A60069C6

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. The problem is most likely with the remote system or partition. Intervention at the remote system is most likely required. Examine both the local and remote HSL OptiConnected systems or partitions for problems on this HSL loop.

Possible reasons include: A fatal error in software or hardware in the remote system or partition or a power failure in the remote system.

If there was not a complete HSL loop before this error occurred then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for a problem with: an HSL cable, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the Service Action Log (SAL), or serviceable event view you are using on the local system or partition for HSL failures on the same HSL loop at approximately the same time this error occurred.

Examine the remote system or partition for problems. If the remote system or partition is powered on and IPL'd then examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers. When the remote system is IPL'd it will automatically reconnect with this system or partition.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on both systems. Be

## A60069C7 • A60069C9

sure to record all words in the SRC. Contact your next level of support.

### Failing Item:

- REM\_SYS

---

### A60069C7

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required.

Possible causes are: time out, hang or hardware failure. The problem may be with: the local system or partition or the remote system or partition.

If there was not a complete HSL loop before this error then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for SRCs with FRUs like: HSL cables, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the SAL or serviceable event view you are working with on the local system or partition for failures on the same loop, or with the Network Interface Controller at approximately the same time.

Examine the remote system or partition for problems. Correct any HSL or NIC problems you find with the remote and local systems or partitions.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log (PAL) information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

### Failing Item:

- REM\_SYS
- LOC\_SYS

---

### A60069C8

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. All of the HSL OptiConnect connections on this loop will be in a failed state. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required. Possible causes are:

- time out of a critical message
- LIC code / table problem

- Network deadlock detected

The problem may be with:

- The local system or partition
- The remote system or partition

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL failures on the same HSL loop, or with the Network Interface Controller at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop or with the Network Interface Controller at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on all systems or partitions. Be sure to record all words in the SRCs. Contact your next level of support.

### Failing Item:

- REM\_SYS
- LOC\_SYS
- AJDG301

---

### A60069C9

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an failure in a LIC virtualized bus unit. LIC will attempt to recover from the error. Possible causes are:

- LIC problem where the local bus unit is off line.
- LIC problem where the remote bus unit is off line.

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or the serviceable event view you are using, on the remote



system or partition for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

**Failing Item:**

- AJDG301
- REM\_SYS
- LOC\_SYS

**A60069CF**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** LIC internal error. All systems participating in HSL OptiConnect will be disconnected. The system must be re-IPL'd to recover. Before re-IPL'ing the system initiate a main store dump.

After getting the dump, examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote systems or partitions for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote systems or partitions for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

**Failing Item:**

- AJDG301

**A60069D0**

**Explanation:** Bus Expansion Adapter card failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

**A60069D8**

**Explanation:** Bus Expansion Adapter failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

**A60069D9**

**Explanation:** Host Ethernet Adapter (HEA) failure.

**Response:** Firmware detected a hardware failure in the Host Ethernet Adapter (HEA).

**Failing Item:**

- HEA

**A60069DA**

**Explanation:** System log entry only, no service action required.

**A60069DB**

**Explanation:** LIC failure.

**Response:** A Licensed Internal Code error occurred. The partition will continue to run with this Host Ethernet Adapter (HEA) disabled. Perform a partition dump and then IPL the partition to recover the HEA. Send the partition dump to your next level of support.

**Failing Item:**

- SVCDOCS

**A60069DC**

**Explanation:** The Host Ethernet Adapter (HEA) is not connected to the Ethernet switch.

**Response:** The Host Ethernet Adapter (HEA) is not connected to the Ethernet switch. If the HEA connection is not needed, no service action is required.

If the HEA connection is needed, verify that the cable is connected and the switch is powered on. After repairing the problem, verify that the connection has been restored.

**A60069DD**

**Explanation:** The Host Ethernet Adapter (HEA) connection to the Ethernet switch has been restored.

**Response:** System log entry only, no service action required.

**A60069DE**

**Explanation:** Host Ethernet Adapter (HEA) Media Interface Adapter Failure.

**Response:** Firmware detected a failure in the HEA Media Interface Adapter.

**Failing Item:**

- HEA
- AJDG301

---

**A60069E0**

**Explanation:** Bus Expansion Adapter card failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A60069E8**

**Explanation:** Bus Expansion Adapter failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A60069F0**

**Explanation:** Bus Expansion Adapter failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A60069F8**

**Explanation:** Bus Expansion Adapter failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6007001**

**Explanation:** ISDN call in rejected.

**Failing Item:**

- UG3LB

---

**A6007002**

**Explanation:** Lines not selected.

**Failing Item:**

- UG3LB

---

**A6007003**

**Explanation:** Network interfaces not selected.

**Failing Item:**

- UG3LB

---

**A6007004**

**Explanation:** TCP/IP informational error.

**Response:** This reference code is logged when the TCP/IP Attribute Log Protocol Errors is set, and the TCP/IP System LIC silently discards an in bound

datagram. Silently discard is defined to mean discard the received datagram without reporting an error to the originating host device. Examples of such datagrams are those with checksums or destination addresses which are not valid.

This reference code is for information only. Normally no action should be taken as a result of this reference code. It is generated in order to assist with remote device or TCP/IP network problem determination.

---

**A6007055**

**Explanation:** Statistics were logged, no service action required.

**Response:** This reference code is logged for information only.

---

**A6007100**

**Explanation:** APPN session initiation attempt has timed out.

**Response:** This reference code is used to indicate that LIC timed out on a request to initiate a session.

The user must run problem analysis for this reference code. If this indicates a software problem, the user should dial IBM Software Support for assistance.

The Problem Determination Procedure (PDP) will indicate whether the original timeout condition still exists and what the corrective actions should be.

**Failing Item:**

- AJDG301
- UPLF3
- UPLF1
- UPLF2

---

**A6007101**

**Explanation:** APPN session initiation attempt has failed.

**Response:** This reference code is used to indicate that LIC attempted to satisfy a session initiation request, but some failure condition was detected by LIC. The failure condition could be a configuration or operational problem in the network.

The user must run problem analysis for this reference code. If this indicates a software problem, the user should dial IBM Software Support for assistance.

The Problem Determination Procedure (PDP) will indicate whether the original timeout condition still exists and what the corrective actions should be.

**Failing Item:**

- UPLF4
- UPLF5

- UPLF6
- AJDG301

---

**A6007102**

**Explanation:** APPN CP-CP session ended.

---

**A6007201**

**Explanation:** A utility failure occurred.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a utility failure.

---

**A6007202**

**Explanation:** Utility power restored.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting that utility power has been restored.

---

**A6007203**

**Explanation:** A battery low condition was detected.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a battery low condition.

---

**A6007204**

**Explanation:** Uninterruptible Power System reported a bypass active.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a bypass is active.

---

**A6007205**

**Explanation:** Battery low condition was reset.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a battery low condition.

---

**A6007206**

**Explanation:** UPS reported bypass no longer active.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a bypass active condition.

---

**A600720A**

**Explanation:** Battery Power Unit replacement dates do not match.

**Response:** The replacement dates for one of the Battery Power Units do not match. Run "Display

Hardware Configuration" and verify that the dates match the labels on the batteries.

---

**A6007703**

**Explanation:** System LIC detected a program exception.

**Response:** Storage Management detected a DASD datacheck condition and the defective sector was reallocated.

Perform a system IPL to restart the system.

---

**A6007704**

**Explanation:** General failure detected by HRI component.

**Failing Item:**

- AJDG301

---

**A6007777**

**Explanation:** Hardware configuration change detected.

**Response:** A hardware resource is missing. The resource reported in to the system on a previous IPL, but has not reported in on the current IPL. This could occur for several different reasons.

1. It could be a normal situation where the resource is currently powered off. In this case, when the resource is powered back on, it will no longer be missing.
2. The hardware resource could also be missing if it has been removed from the system, for example, a tape drive that was replaced with a different tape drive. The service representative should use the Hardware service manager to remove the entry for this resource.
3. The resource may not have reported in on this IPL because it is failing. Perform problem analysis to determine why the resource is failing.

---

**A6008000**

**Explanation:** A storage subsystem disk unit connection failed.

**Response:** Look for other errors in the Service Action Log (SAL), or serviceable event view you are working with, and fix them.

---

**A6008001**

**Explanation:** A storage subsystem disk unit connection failed.

**Response:** Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

## A6008002 • A600CFFC

---

### A6008002

**Explanation:** Maximum number of redundant connections exceeded.

**Response:** An attempt to activate a connection from another I/O adapter to a storage subsystem disk unit failed because the maximum number of connections are already active for this disk unit. No action required.

---

### A6008003

**Explanation:** A storage subsystem disk unit connection was restored.

**Response:** No action required.

---

### A6008004

**Explanation:** A storage subsystem disk unit connection failed.

**Response:** Could not read configuration information from the disk unit. Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6008005

**Explanation:** High performance connection failed.

**Response:** A high performance connection to an external storage subsystem disk unit failed.

There are still two or more external storage subsystem disk unit connections, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6008006

**Explanation:** High performance connection failed.

**Response:** A high performance connection to an external storage subsystem disk unit failed.

There is still one more external storage subsystem disk unit connection, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6008007

**Explanation:** High performance connection was restored.

**Response:** A high performance connection to an external storage subsystem disk unit was restored.

Performance is no longer degraded.

No action required.

---

### A600B700

**Explanation:** A platform firmware error log was signalled to LIC but could not be retrieved from platform firmware. LIC created this event in the PAL with SRC B600B700 to log the problem.

**Problem determination:** Contact your hardware service provider. This is a platform firmware problem.

**Failing Item:**

- NEXTLVL

---

### A600CF00

**Explanation:** Permanent error on removable media device.

**Response:** A type D IPL terminated because of a removable media Load Source device failure. If the removable media Load Source is an external device, check the cables. If that does not correct the problem, replace the device. If the removable media Load Source is an internal device, replace the device. If the removable media Load Source is a virtual device, ensure it is set up correctly.

**Failing Item:**

- SVCDOCS

---

### A600CF01

**Explanation:** Unsupported removable media device configuration.

**Problem determination:** A type D IPL terminated because of an unsupported removable media device configuration. Retry the D-IPL with a different removable media device.

**Failing Item:**

- SVCDOCS

---

### A600CFFC

**Explanation:** Optical library device condition not expected.

**Response:** The optical disk drive addressing within the optical library is incorrect. This error is likely to be the result of faulty cabling or switch setting following service to an optical library.

Contact your hardware service provider.

**Failing Item:**

- OPTLCBL
- DRVSWCH

---

**A600CFFD**

**Explanation:** Optical drive failure.

**Failing Item:**

- OPTLDRV
- 

**A600CFFF**

**Explanation:** Media determined to be bad in Optical library.

---

**A600F103**

**Explanation:** Main storage dump must be copied for service.

**Failing Item:**

- LICIP01
- 

**A600F104**

**Explanation:** LPAR service function directed a Main Storage Dump.

**Response:** The Hypervisor terminated a partition with an unresponsive Operating System. A Main Store Dump must be done for service. Call your next level of support when the dump is complete.

**Failing Item:**

- LICIP01
- 

**A600F105**

**Explanation:** Licensed Internal Code detected error.

**Failing Item:**

- NEXTLVL
- 

**A600FDC0**

**Explanation:** LIC program reported informational error.

**Response:** This reference code is logged for information only. No action required.

---

**A600FDC5**

**Explanation:** LIC program failed and data was captured.

**Response:** This reference code indicates first failure data capture (FFDC) data was collected for a problem reported by licensed internal code.

The user should dial IBM Software Support for assistance.

**Failing Item:**

- UG3AS

---

**A6D1BD62**

**Explanation:** Platform firmware event with a non IBM i LPAR.

**Problem determination:** Report this problem to your next level of support.

**Failing Item:**

- SVCDOCS
- 

**A6xx0000**

**Explanation:** Operating system status code.

**Response:** This reference code is for information only. It is shown in the Product activity log as a side effect of a condition that was detected by LIC.

Normally, no action should be taken as a result of information reference codes. However, to isolate the root cause, use these suggestions:

1. Examine the date and time of the informational reference code.
  2. Determine if any other reference codes have been logged at or before the same date and time.
  3. Begin the service approach based on these other logged errors.
- 

**A6xx0102**

**Explanation:** A machine check occurred during IPL.

**Response:** Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9 before attempting to IPL again and report the problem to your Software Service Provider.

---

**A6xx0103**

**Explanation:** Main storage dump must be copied for service.

**Failing Item:**

- LICIP01
- 

**A6xx0104**

**Explanation:** Terminate Immediate reference code is bad.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0105**

**Explanation:** More than one request to terminate the system was issued.

**Failing Item:**

- LICIP08

## A6xx0106 • A6xx0266

- AJDG301

---

### A6xx0106

**Explanation:** Terminate Immediate data is not valid.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx0107

**Explanation:** Main storage dump must be copied for service.

**Response:** The server detected an unrecoverable machine check condition.

Collect all the words of the SRC and the main store dump and send to your system manufacturer for analysis.

---

### A6xx0109

**Explanation:** An unrecoverable memory error occurred.

**Response:** Re-IPL the partition that terminated. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View that indicate the replacement of memory in the failing item list. If there are no B1xxxxxx SRCs in the Serviceable Event View that indicate a memory problem, perform a slow boot by using Performing a slow boot in order to run diagnostics on the memory. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View.

**Failing Item:**

- SVCDOCS

---

### A6xx0202

**Explanation:** Unrecoverable read error.

**Response:** Restore the Licensed Internal Code using Utilities to install and restore IBM i Licensed Internal Code.

---

### A6xx0210

**Explanation:** The system ASP has run out of disk storage.

**Response:** The out of storage condition in the system ASP can be caused by an allocation failure in some other system software. This could be a looping condition that continues to allocate storage. Contact your service representative for assistance with the Main Storage Dump.

---

### A6xx0231

**Explanation:** Disk sanitize action completed successfully.

**Response:** No service action required. This entry is logged for information only.

---

### A6xx0232

**Explanation:** Disk sanitize action did not complete successfully.

**Response:** Provide the Product Activity Log entry to your next level of support for analysis.

---

### A6xx0244

**Explanation:** Contact was lost with the device indicated.

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
- FI00580
- FI00500
- FI00302
- FI00301
- AJDG301

---

### A6xx0255

**Explanation:** Contact was lost with the device indicated.

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
- FI00580
- FI00500
- FI00302
- FI00301
- AJDG301

---

### A6xx0266

**Explanation:** Contact was lost with the device indicated.

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
- FI00580

- FI00500
- FI00302
- FI00301
- AJDG301

---

**A6xx0299**

**Explanation:** Informational LIC state SRC.

---

**A6xx0302**

**Explanation:** Recursion in exception handler.

This SRC is an IBM i software event. If this SRC was reported as a serviceable event or if this SRC appears on the IBM i LPAR's panel then report the SRC as an IBM i software problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0304**

**Explanation:** Component specific exception handler return code not valid.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0305**

**Explanation:** Exception while storage management lock is held.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0307**

**Explanation:** LIC exception code detected a problem.

**Response:** Component Specific Exception Handler recursion is detected in an IBM i Operating System process.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0308**

**Explanation:** LIC exception code detected a problem.

**Response:** Component Specific Exception Handler recursion is detected in an IBM i Operating System process.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0317**

**Explanation:** Traceback for code not found.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0323**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0324**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0325**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0326**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0327**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0328**

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
- AJDG301

## A6xx0329 • A6xx0410

---

### A6xx0329

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0333

**Explanation:** A branch to a bad address was attempted.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0334

**Explanation:** Exception Handler could not be removed.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0335

**Explanation:** Code resumed to not valid address following exception.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0336

**Explanation:** LIC exception code detected a problem.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0401

**Explanation:** A machine check occurred during IPL.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0402

**Explanation:** A machine check occurred during authority initialization.

**Failing Item:**

- LICIP08
  - AJDG301
- 

---

### A6xx0403

**Explanation:** Unhandled exception during IPL or install.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0405

**Explanation:** Unhandled exception in authority recovery.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0406

**Explanation:** Unhandled exception in data base recovery.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0407

**Explanation:** Unhandled exception in data base initialization.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0408

**Explanation:** Unhandled exception in journal recovery.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0409

**Explanation:** Unhandled exception in journal synchronization.

**Failing Item:**

- LICIP08
  - AJDG301
- 

### A6xx0410

**Explanation:** Unhandled exception in journal clean up.

**Failing Item:**

- LICIP08
  - AJDG301
-



---

**A6xx0411**

**Explanation:** Unhandled exception in commit recovery.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0412**

**Explanation:** Unhandled exception in commit initialization.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0413**

**Explanation:** Rebuild of recovery object index failed.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0414**

**Explanation:** Install of operating system failed on read from media.

**Failing Item:**

- LICIP08
  - FI00300
- 

**A6xx0415**

**Explanation:** Create user profile failed.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0417**

**Explanation:** Initiating the initial process failed.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0418**

**Explanation:** The information loaded from the install media is not valid.

**Failing Item:**

- LICIP08
  - AJDG301
- 

---

**A6xx0419**

**Explanation:** The information loaded from the install media is not valid.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0420**

**Explanation:** The information loaded from the install media is not valid.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0421**

**Explanation:** Bad return code creating a queue or message.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0422**

**Explanation:** The Load/Dump command failed.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0439**

**Explanation:** Opening the IPCF connection failed.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0440**

**Explanation:** Termination code is not valid.

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0441**

**Explanation:** Power off system command failed.

**Failing Item:**

- LICIP08
  - AJDG301
-

## A6xx0443 • A6xx0802

---

### A6xx0443

**Explanation:** Programmed IPL command failure.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx0446

**Explanation:** Error during machine termination.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx0447

**Explanation:** Failure to reach MI boundary.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx0449

**Explanation:** Exception in MI boundary manager.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx0506

**Explanation:** Attempt to destroy a task with critical flag on.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx0507

**Explanation:** A critical process terminated. This SRC will be in the LPAR's panel.

LIC detected an attempt to terminate a process with its critical flag set to ON. Normally this process will be SCPE.

This is a secondary affect of the process termination request for a critical process that was caused by a system error condition that began process termination. The system error condition that began process termination is most commonly a storage error or LIC exception handling.

**Response:** Perform LICIP08 - save and send in the Main Store Dump, collect LIC and Product Activity Logs.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx0607

**Explanation:** Maximum stack size exceeded in process or task.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx0620

**Explanation:** Event management index is not usable.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx0650

**Explanation:** Resource management segment could not be created or extended.

**Response:** A main store dump was initiated.

Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9.

Perform a system IPL and collect the Product activity log and main store dump and provide them along with the recorded SRC information to IBM Service Support.

The problem may also be that there is not enough auxiliary storage.

**Failing Item:**

- AJDG301

---

### A6xx0801

**Explanation:** Invalid LID directory detected.

**Response:** During system IPL, the LIDMgr detected an I/O failure or media failure while trying to read the LID directory.

**Failing Item:**

- LICIP08
- FI00070
- FI00300
- AJDG301

---

### A6xx0802

**Explanation:** LID directory unusable.

**Response:** During system IPL, the LIDMgr detected that the LID directory and associated Load Source is not usable.

Reinstall the Licensed Internal Code by using Utilities

to install and restore IBM i Licensed Internal Code.

For more information, contact IBM Service Support.

**Failing Item:**

- AJDG301

**A6xx0901**

**Explanation:** The LinkLoader has found its bad flag ON.

**Response:** This reference code is usually the result of a system termination while the LinkLoader is performing its work.

Reinstall the Licensed Internal Code by using Utilities to install and restore IBM i Licensed Internal Code.

**A6xx0902**

**Explanation:** Unable to perform programmed IPL.

**Response:** The LinkLoader was not successful in performing a programmed IPL.

Perform a system IPL. If the problem persists, examine the main storage dump and determine the reason for the failure of the programmed IPL.

**A6xx0903**

**Explanation:** The LinkLoader was not able to allocate a segment.

**Response:** Perform the D mode IPL again. If the problem persists, there might be a memory problem. Contact your next level of support.

**A6xx0904**

**Explanation:** The LinkLoader was not able to load a critical LID.

**Response:** Perform the D mode IPL again. If the problem persists, contact your next level of support.

**A6xx1001**

**Explanation:** Enqueuing a task to the TDQ which is already enqueued on TDQ.

**Failing Item:**

- LICIP08
- AJDG301

**A6xx1103**

**Explanation:** MISR not readable; must be readable for Normal Mode install.

**Response:** MISR is not readable. Perform a manual install to reinitialize the system.

**A6xx1104**

**Explanation:** Failure reading media or not install media.

**Response:** Determine that correct install media is loaded. If correct install media is installed, media could be corrupt. Obtain another copy of the install media and re-attempt the install. If the install still fails, contact your service representative.

**A6xx1201**

**Explanation:** Critical database segment could not be created.

**Failing Item:**

- LICIP08
- AJDG301

**A6xx1204**

**Explanation:** Error in constraint enforcement.

**Failing Item:**

- LICIP08
- AJDG301

**A6xx1210**

**Explanation:** Object not found in the in-use table.

**Failing Item:**

- LICIP08
- AJDG301

**A6xx1215**

**Explanation:** Error in critical code sequence.

**Failing Item:**

- LICIP08
- AJDG301

**A6xx1219**

**Explanation:** A back leveled driver has been detected.

**Failing Item:**

- LICIP08
- AJDG301

**A6xx1604**

**Explanation:** Not able to create APPN task.

**Response:** An error occurred during task creation which requires a power off of the system.

**Failing Item:**

- LICIP08

## A6xx1724 • A6xx4404

- AJDG301

---

### A6xx1724

**Explanation:** An attempt to create a segment failed.

**Response:** The create could fail for two reasons:

- A code problem. Perform the procedure indicated in the failing item list.
- No free auxiliary storage on the system. Add additional DASD if the create failed because no auxiliary storage was available.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6xx1730

**Explanation:** An IPL is needed to restore system performance.

**Response:** Licensed Internal Code has detected a condition that is impacting system performance. System operation can continue, but system performance may be noticeably reduced until the next IPL.

Look at the Product Activity Log entry, and find the value at offset x'000180'. If the value equals x'00000122', the error was caused by too much processor memory being installed.

For more information, contact IBM Service Support.

**Failing Item:**

- UPLF1

---

### A6xx3000

**Explanation:** LPAR service function directed a Main Storage Dump.

**Response:** Copy the current main storage dump to media. For more information on how to copy a Main Storage Dump, refer to Copying a main storage dump.

**Failing Item:**

- AJDG301

---

### A6xx41FC

**Explanation:** Installation of LIC failed.

**Response:** Words 12 and 13 of this SRC contain additional diagnostic information.

Install LIC using physical media.

To determine what caused the failure, collect SRC information and contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### A6xx41FD

**Explanation:** Installation of LIC failed.

**Response:** A main store dump was initiated. Words 12 and 13 of this SRC contain additional diagnostic information.

To recover the partition using the previously installed LIC, perform a B-mode IPL. You can then re-try the installation of LIC. Otherwise, install LIC using physical media.

To determine what caused this failure, collect SRC information and main store dump and contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### A6xx4401

**Explanation:** Missing DASD units.

**Response:** Copy the current main storage dump to media.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

### A6xx4402

**Explanation:** Missing DASD units.

**Response:** Copy the current main storage dump to media. Then exit the Main Storage Dump Manager.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

### A6xx4403

**Explanation:** Storage Management failed to reach full paging.

**Response:** Copy the current main storage dump to media.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

### A6xx4404

**Explanation:** Auto copy failed or not attempted.

**Response:** Copy the current main storage dump. If copying to system ASP, existing copies may need to be deleted or renamed. Then exit the Main Storage Dump Manager.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6xx4405**

**Explanation:** System ASP threshold exceeded after auto copy done.

**Response:** Delete other system ASP copies or exit the Main Storage Dump Manager and then from DST copy the Auto Copy to media and then delete the Auto Copy in system ASP.

---

**A6xx4420**

**Explanation:** MSD Manager not configured to save dump information.

**Response:** The platform produced dump data, but the Main Storage Dump (MSD) Manager was not configured to automatically copy the dump to an Auxiliary Storage Pool (ASP). The dump will be lost if the system power is lost. Use MSD Manager to manually copy the current platform dump to media or an ASP.

---

**A6xx4421**

**Explanation:** Insufficient space in the ASP to store a platform dump.

**Response:** The platform produced dump data, and the Main Storage Dump (MSD) Manager was configured to automatically copy the dump to an Auxiliary Storage Pool (ASP), but there was not sufficient free space available in the ASP. The dump will be lost if the system power is lost. Manually copy the current platform dump from the platform by performing one of the following:

- Make room in the designated ASP and then use the MSD Manager to copy the current platform dump to ASP.
- Use the MSD Manager to delete other dump copies, then copy the current platform dump to ASP.
- Use the MSD Manager to copy the current platform dump to a different ASP.
- Use the MSD Manager to copy the current platform dump to media.

---

**A6xx4422**

**Explanation:** A platform dump is saved in MSD Manager.

**Response:** The platform produced dump data. The dump data was copied to the Main Storage Dump (MSD) Manager.

**Failing Item:**

- PLDUMP

---

**A6xx4700**

**Explanation:** Processor On Demand error detected.

**Response:** Processor on Demand Data Block key is not valid.

Replace the Processor Capacity card.

**Failing Item:**

- CTLPNCD

---

**A6xx4701**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand Data Block contains data that does not match the expected data.

Contact your service provider.

**Failing Item:**

- AJDG301

---

**A6xx4703**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand Serialization has failed during IPL.

Contact your service provider.

**Failing Item:**

- AJDG301

---

**A6xx4710**

**Explanation:** Processor On Demand error detected.

**Response:** SPCN communication failure during Processor On Demand.

Look in the Product Activity Log for other SPCN errors and perform the actions indicated for those errors.

**Failing Item:**

- SPNLCRD

---

**A6xx4712**

**Explanation:** Processor On Demand error detected.

**Response:** Correct any Processor Capacity card or SPCN failures.

**Failing Item:**

- CTLPNCD

---

**A6xx4713**

**Explanation:** Incorrect Processor Capacity Card installed.

**Response:** The Processor Capacity Card is the failing

## A6xx4714 • A6xx5002

item since it has been swapped in from a different system.

Put the Processor Capacity Card back in the system it came from, and reinstall this system's original Processor Capacity Card.

**Failing Item:**

- CTLPNCD
- 

### A6xx4714

**Explanation:** The CUoD data is not present. A problem may exist.

**Response:** The Processor Capacity Card was changed and there may be a problem.

If the system did have any activated standby processors before the Processor Capacity Card was replaced, then new processor on demand activation codes must be obtained to restore the previous activations.

Contact your service provider.

---

### A6xx4715

**Explanation:** Processor On Demand error detected.

**Response:** Correct any Processor Capacity card or SPCN failures.

**Failing Item:**

- CTLPNCD
- 

### A6xx4730

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand standby processors are in use.

Contact your service provider.

**Failing Item:**

- AJDG301
- 

### A6xx4731

**Explanation:** Processor On Demand error detected.

**Response:** The Processor On Demand Trial Activation period is not valid. Contact your next level of support.

**Failing Item:**

- AJDG301
- 

### A6xx4733

**Explanation:** Processor On Demand error detected.

**Response:** Contact your service provider.

**Failing Item:**

- AJDG301
- 

---

### A6xx4740

**Explanation:** Processor On Demand error detected.

**Response:** The Processor On Demand Activation code just entered is not valid.

Contact your next level of support.

**Failing Item:**

- AJDG301
- 

### A6xx4741

**Explanation:** Processor On Demand error detected.

**Response:** An invalid Processor On Demand Activation code has been entered more than 5 consecutive times. Contact your service provider.

**Failing Item:**

- AJDG301
- 

### A6xx4745

**Explanation:** Processor Capacity card replaced on activated POD system.

**Response:** Contact IBM Support to order a replacement Processor On Demand activation code.

---

### A6xx4747

**Explanation:** 1 hour left in POD 14 day Trial Activation Period.

**Response:** If a new activation code was purchased, it should be entered now. Otherwise, the system will revert back to its previous activation state at the end of the Trial Activation Period.

---

### A6xx5001

**Explanation:** DST received no response from a workstation controller.

**Response:** The workstation I/O processor for the system or partition console did not respond.

**Failing Item:**

- RTRIP01
  - FI00380
  - AJDG301
- 

### A6xx5002

**Explanation:** DST problem attempting to use the system console.

**Response:** A code problem occurred during an attempt to use the system console.

**Failing Item:**

- LICIP03
-

- AJDG301
- FI00380

---

#### A6xx5003

**Explanation:** Service program failed.

**Response:** The ASCII system console failed to respond.

**Failing Item:**

- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

#### A6xx5004

**Explanation:** DST console failed to respond.

**Response:** The system console failed to respond.

**Failing Item:**

- RTRIP02
- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

#### A6xx5005

**Explanation:** Service program failed.

**Response:** The workstation adapter system console failed to respond.

**Failing Item:**

- WSAIP01
- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

#### A6xx5007

**Explanation:** Service program failed.

**Response:** The workstation adapter console failed to respond.

**Failing Item:**

- RTRIP07
- FI00320
- FI00602
- USER

- AJDG301
- FI00380

---

#### A6xx5008

**Explanation:** DST console failed to respond. If an IPL did not find a console and if the console type is set to anything except a 1, the system will display code A6005008.

**Response:** If you just replaced the LAN adapter associated with Operations Console (LAN), you need to wait at least 35 minutes for the system to find and use the new LAN adapter. In this case, when the system is satisfied, it starts using the new adapter. The console should start, and the SRC is no longer shown.

If you are attempting to use a twinaxial console the only data relevant in this SRC is word 6. Use the information in the list below for the meaning of word 6 to determine the twinaxial failure. The first 4 characters of word 6 contains the last 4 characters of the original failure type. For example, if word 6 contained 50010001, the twinaxial-related SRC would be A6005001 and the console type is set to use a twinaxial console. Refer to that SRC. Word 6 in the form of xxxx yy zz means the following:

- xxxx where:
  - The twinaxial-related SRC is represented by the first 4 characters.
- yy where:
  - 0A = No console tagged
- zz where:
  - 00 = Not defined by user (old default value)
  - 01 = Twinaxial
  - 02 = Operations Console (Direct) (obsolete)
  - 03 = Operations Console (LAN )
  - 04 = Hardware Management Console (HMC) or Thin Console

If you are attempting to use Operations Console, the local console on a network uses words 3, 4, and 5. Use words 3 through 5 to select the appropriate section in the following list.

1. Word 3 is "1": No supported HW detected or HW detected is not expected (for example, you replaced the LAN IOA so the serial number is different) In some cases the serial number of the expected adapter may be shown in word 5.
2. Word 3 is "2": The LAN IOA failed to report.
3. Word 3 is "3": Hardware error. Common error codes in word 4:
  - 53001A80 and 53002AC0: Network, cable or the LAN adapter may not be operational. Word 5 may contain the card position or serial number of the adapter.

## A6xx5010 • A6xx5090

- 00000000: This error code indicates the adapter reported but has not been initialized yet. This is not considered an error, at this time. The adapter should be activated shortly. Word 5 may contain the card position or serial number of the adapter.
- CC10031A: Adapter was activated but did not reach LinkUp state. The card was given more than a minute to link up to its partner (probably a switch) and it didn't do so. Likely conditions:
  - The cable is unplugged on one end or the other, or is defective.
  - The switch port is not operational.

Once this error code is received, the problem will not resolve itself until something restarts the device driver. Word 5 may contain the card position or serial number of the adapter.

- For other error codes contact your service provider. Word 5 may contain the card position or serial number of the adapter.
4. Word 3 is "4": BOOTP status: Word 4 contains the number of attempts. If attempts are zero, then BOOTP is ready, when called. If attempts have a value, then the PC did not respond. Word 5 may contain the card position or serial number of the adapter.
  5. Word 3 is "5": The system's LAN connection is active but the PC failed to connect. Are the PC and system on the same network and using the same protocol? Can the PC ping the system? (ping serverhostname). Word 4 contains the IP address. Word 5 may contain the card position or serial number of the adapter.

**Problem determination:** Look at words 3-8 on the console. If words 3-5 are non-zero the failing item is most likely an ASYNC card. If words 6-8 are non-zero the failing item is most likely a LAN card.

Word 7 meanings for the failure identified:

- 1 Async card not detected.
- 2 No cables detected. Word 8 is the Card position. Word 9 is the card type.
- 3 Wrong cable detected. Word 8 is the card position. Word 9 is the cable ID.
- 4 Port in use. Word 8 is the card position. Word 9 is the card type.
- FA Not configured for direct cable

Note: It is expected that a D-mode IPL with a new load source direct access storage device (DASD) will show the console type value of 00. Examples of when this can occur might be that the copy of data from a failing DASD did not copy all data or you are installing a new logical partition. Also, there are times when the DASD is late reporting and the console type value was not retrieved in time. In these cases you can use the console service function to set a console type value or attempt to contact the console again.

### Failing Item:

- OPCIP03
- FI00719

---

### A6xx5010

**Explanation:** IPL service function ended abnormally.

### Failing Item:

- LICIP04
- AJDG301

---

### A6xx5014

**Explanation:** DST status. The Storage Management Dual Path Information Screen option to dump data to a PAL has completed successfully.

---

### A6xx5015

**Explanation:** DST error. An error has occurred gathering data for the Storage Management Dual Path Information Screen option to dump data to a PAL. Contact your next level of support or hardware service provider.

### Failing Item:

- NEXTLVL

---

### A6xx5082

**Explanation:** DST lost contact with the console.

**Response:** A service program lost contact with the system console.

### Failing Item:

- RTRIP03
- AJDG301
- USER

---

### A6xx5083

**Explanation:** IPL service function ended abnormally.

**Response:** A service program lost contact with the system console.

### Failing Item:

- TWSIP01
- AJDG301
- USER

---

### A6xx5090

**Explanation:** System startup failed in unattended IPL mode.

**Response:** Perform the following:



- If reference code A6xx5090 is displayed on the control panel for more than 10 minutes, perform the procedure indicated in the failing item list.
- For reference code B6xx5090, perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP11
- FI00580
- FI00500
- FI00301
- FI00021
- FI00065
- AJDG301

**A6xx5092**

**Explanation:** System is in DASD migration mode.

**Response:** Install Licensed Internal Code and Upgrade Load Source was specified but the key is not in the manual position. Change the key position to manual and perform a system IPL.

**A6xx5094**

**Explanation:** IASP detected a failure during the vary on operation.

**Failing Item:**

- LICIP12

**A6xx50FF**

**Explanation:** DST unrecoverable program error.

**Failing Item:**

- LICIP03
- AJDG301
- FI00380

**A6xx5120**

**Explanation:** System LIC detected a program exception.

**Response:** System LIC detected a programming problem. If performance or other system degradation is occurring, the system may be operating with reduced resources.

Check the Product activity log for related entries. If this reference code is logged with an error class of Informational, then no action is required.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP01
- AJDG301

- FI00130

**A6xx5121**

**Explanation:** LIC program exception occurred.

**Response:** System LIC detected a programming problem for which a main storage dump may have been initiated. Collect the dump if available.

A problem log entry may be generated for this refcode.

**Failing Item:**

- LICIP01
- AJDG301

**A6xx5122**

**Explanation:** LIC program exception occurred.

**Response:** System LIC detected an IOP programming problem for which an IOP dump may have been initiated.

**Failing Item:**

- LICIP01
- FI00130
- AJDG301
- FI00131

**A6xx5123**

**Explanation:** LIC program exception occurred.

**Response:** System LIC detected an interface problem with the IOP or an IOP programming problem for which an IOP and main storage dump may have been initiated.

**Failing Item:**

- LICIP01
- FI00130
- AJDG301
- FI00131

**A6xx5126**

**Explanation:** Addressed device failed to respond to selection.

**Failing Item:**

- DISKDRV
- STORIOA
- DISKTRY
- FI01106
- FI01140
- FI01141
- DEVTERM
- BACKPLN

---

### A6xx5127

**Explanation:** IOP timed out a disk command.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- DISKTRY
- FI01140
- FI01141
- DEVTERM
- BACKPLN

---

### A6xx5128

**Explanation:** I/O processor failure.

**Failing Item:**

- FI01112
- FI01107

---

### A6xx512D

**Explanation:** An IOP dump was initiated.

**Response:** Copy the IOP dump entry and any related entries from the Product Activity Log to suitable media, and give to an IBM service representative.

---

### A6xx512E

**Explanation:** LIC program exception occurred.

**Response:** The system was in a D IPL mode when the problem was detected. A main storage dump was not taken.

**Failing Item:**

- LICIP01
- AJDG301
- FI00130

---

### A6xx5192

**Explanation:** Insufficient entitled memory for the I/O configuration.

**Response:** Use the hardware management console to increase the entitled memory capacity of the partition and restart the I/O adapter. To restart a storage I/O adapter, use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. To restart a communications I/O adapter, vary the line off and vary it on using the vary configuration (VRYCFG) command.

**Failing Item:**

- SVCDOCS

---

### A6xx5193

**Explanation:** Virtual adapter not supported in a shared memory partition.

**Response:** Use the hardware management console to remove the virtual adapter from the partition.

**Failing Item:**

- SVCDOCS

---

### A6xx5194

**Explanation:** Insufficient entitled memory for the I/O configuration.

**Response:** Use the hardware management console to increase the entitled memory capacity of the partition and restart the partition.

**Failing Item:**

- SVCDOCS

---

### A6xx5206

**Explanation:** System LIC detected a missing IOP LIC code load.

**Response:** System LIC detected a missing IOP LIC code load during IPL of the IOP. This indicates that either the IOP code load is not installed on the system Load Source device or that system LIC was unable to successfully read that load from the Load Source device.

**Failing Item:**

- LICIP01
- USER

---

### A6xx5209

**Explanation:** System LIC detected an IOP timeout during IOP IPL.

**Response:** Verify that all IOP cable connections are secure, and check tape and other non-disk devices and media to verify that they are in a ready state.

**Failing Item:**

- LICIP01
- USER
- FI00130
- AJDG301

---

### A6xx5219

**Explanation:** LIC program exception occurred.

**Response:** An IOP signaled to system LIC that it had entered a critical internal state. LIC automatically attempted to restart the IOP.

This reference code is logged for information only. No action is required.

If this reference code appears in a serviceable event view then service is required, work the failing items list. Otherwise this event can be ignored.

**Failing Item:**

- FI00310
- FI00318
- FI00065
- FI00130
- AJDG301

---

**A6xx5275**

**Explanation:** The system issued a reset/reload to the IOP.

**Response:** System Licensed Internal Code detected that an IOP Reset/Reload has occurred, and that the IOP successfully recovered.

Users who were signed on to a Workstation device under the IOP will need to sign back on. Any LAN/WAN communications lines under the IOP will need to be restarted. Tape/Optical devices under the IOP may need to be varied back on.

To determine the cause of the IOP Reset/Reload, check the Product Activity Log for additional entries logged with the same System Log ID, and perform any actions indicated for those errors.

---

**A6xx5276**

**Explanation:** IOP Reset was issued.

**Response:** LIC has detected a problem with the Service Processor IOP and has reset it but has not initiated reload of the Service Processor.

If the Load Source is mirrored, some system operations may be able to continue normally. However, some system service operations have been suspended and the system should be scheduled for power down as soon as possible.

**Failing Item:**

- RTRIP08
- AJGLD01
- AJDG301
- FI00021

---

**A6xx5310**

**Explanation:** LIC program exception occurred.

**Response:** System LIC detected a logical partition configuration data consistency error. Copy the Product Activity Log data for this error and any related entries

and contact your next level of hardware service support.

**Failing Item:**

- LPARSUP

---

**A6xx5311**

**Explanation:** LIC program exception occurred.

**Response:** LPAR configuration data does not match current system configuration. The system will not IPL past DST until the problem is corrected.

Following is a list of problems which may have caused this SRC to be reported:

- Non-configured disk unit which was previously a load source on a partitioned system.
- Load Source configuration data does not match partition for which it is being used.
- Load Source configuration data does not match system serial number for which it is being used.
- Load Source configuration data is newer than primary partition configuration data.

**Failing Item:**

- LPRIP01
- LPARSUP

---

**A6xx5312**

**Explanation:** LIC program exception occurred.

**Response:** LPAR configuration data informational error.

The LPAR configuration data was found to be in error or inconsistent on a secondary partition's Load Source. The data was automatically updated to the current system level.

---

**A6xx5313**

**Explanation:** LIC program exception occurred.

**Response:** LPAR configuration data informational error.

The LPAR configuration data was found to be inconsistent on a primary partition and could only be corrected with an older copy of the data.

**Failing Item:**

- LPARCFG

---

**A6xx5340**

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the Primary partition's Product Activity Log for system processor entries from

## A6xx5341 • A6xx6900

approximately the same time. Perform the actions indicated for those entries.

---

### A6xx5341

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the primary partition Product Activity Log for system memory entries from approximately the same time. Perform the actions indicated for those entries.

---

### A6xx5342

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.

---

### A6xx5343

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the Primary partition's Product Activity Log for system memory errors from approximately the same time. Perform the actions indicated for those entries.

---

### A6xx5344

**Explanation:** Secondary partition not running at optimum.

**Response:** The interactive performance specified in the configuration data for this partition could not be met.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

### A6xx5350

**Explanation:** Secondary partition software release not supported.

**Response:** The logical partition software version is outside the supported release delta.

Check the Release Delta from the Primary partition "Display Partition Release Level" screen.

Check the LPAR documentation for the release level of the Primary partition and determine what the supported Release Delta is.

---

### A6xx5380

**Explanation:** LIC program exception occurred.

**Response:** Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

### A6xx5390

**Explanation:** LIC program exception occurred.

**Response:** Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

### A6xx5505

**Explanation:** The copying of DASD log data to the IOP log was successful.

**Response:** IOP log data can be copied to a spool file for examination by the development lab.

---

### A6xx5555

**Explanation:** SLIC I/O DASD subsystem error recovery in progress.

---

### A6xx5600

**Explanation:** Unrecoverable read error.

**Response:** VPD data could not be read.

Look for other errors implicating hardware. There is no way to know what VPD read has failed, but the resource is not usable and should generate an error.

If no such error occurred, call your next level of support.

**Failing Item:**

- SVCDOCS

---

### A6xx6900

**Explanation:** System bus error.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
-

---

**A6xx6901**

**Explanation:** Bus Expansion Adapter card failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**A6xx6902**

**Explanation:** Bus Expansion Adapter card failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**A6xx6905**

**Explanation:** Optical bus failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**A6xx6906**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** LIC could not access part of the HSL I/O bridge VPD. The bridge and HSL loop may be prevented from becoming operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
  - OPT\_CLN
- 

**A6xx6907**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** LIC detected invalid data in the HSL I/O bridge VPD. The bridge and HSL loop may not have become operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the hardware management console, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
  - OPT\_CLN
- 

**A6xx6908**

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** LIC data in the I/O bus VPD could not be accessed. The I/O Bus identified in the SRC may not have become operational.

If there is a B6xx 6906 reference code, close this problem in the serviceable event view you are working with and work the 6906 error.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event view on the hardware management console or service processor is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

## A6xx6909 • A6xx6961

### Failing Item:

- SIOADP
- OPT\_CLN

---

### A6xx6909

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** LIC detected invalid data in the I/O bus VPD. The bus and resources associated with it may not be operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

If the serviceable event view only indicated a frame or enclosure see the locations section for the frame or enclosure type. The location of the HSL I/O Bridge will be given in the locations tables.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

### Failing Item:

- SIOADP
- OPT\_CLN

---

### A6xx690A

**Explanation:** Associated adapter not found in this partition.

### Failing Item:

- LICIP16

---

### A6xx6910

**Explanation:** I/O processor failure.

**Response:** An I/O processor timed out, returned bad status, or is not following the system bus protocol.

### Failing Item:

- LICIP07
- FI00310
- FI00318
- FI00065
- FI00130

- AJDG301

---

### A6xx6938

**Explanation:** Not valid system configuration detected.

**Response:** This system model does not allow a configuration of more than three (non-OptiConnect) I/O Processors.

Power down the system and remove the extra (non-OptiConnect) I/O Processor(s) so that there are three or less. Restart the system.

---

### A6xx6944

**Explanation:** Missing or failed I/O processor cards.

**Response:** A system bus appears to be empty. If the bus is not empty, two I/O processors in consecutive slots may be missing or broken. If there are broken I/O processors, then another more serious SRC has occurred. Otherwise find the bus number for this failure from the Product activity log and use the system configuration list to verify the configuration of the I/O processors on that bus.

### Failing Item:

- FI00317
- FI00316
- AJDG301

---

### A6xx6960

**Explanation:** Multi-adapter Bridge or PCI Bridge card slot error, do not use card slot.

**Response:** Slot unavailable due to 64 bit card in adjacent slot.

One of the messages documented with the symbolic FRU will describe the problem. See SLOTERR symbolic FRU for a list of messages and corrective actions.

### Failing Item:

- SLOTERR

---

### A6xx6961

**Explanation:** Multi-adapter Bridge or PCI Bridge card slot error, do not use card slot.

**Response:** LED control failure, do not use slot.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing

item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or a serviceable event viewer on the hardware management console is available for this problem then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOTERR
- MASBUS

**A6xx6962**

**Explanation:** Multi-adapter Bridge or PCI Bridge card slot error, do not use card slot.

**Response:** Power control failure, do not use slot.

If there is a Linux partition in the system, any IOPs plugged into slots owned by a Linux partition will not power on. This error will be logged. Correct the situation by removing the IOP cards.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log, or serviceable event view on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOTERR
- MASBUS

**A6xx6963**

**Explanation:** Multi-adapter Bridge or PCI Bridge card slot error, do not use card slot.

**Response:** Power control failure, do not use slot.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOTERR
- MASBUS

**A6xx6964**

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** One of several errors or configuration problems has occurred under a Multi-adapter Bridge or PCI Bridge. If you are using the Service Action Log (SAL), or the serviceable event viewer on the hardware management console or the service processor, then the correct FRU, description and card position(s) will be listed. Use the FRUs and descriptions in the serviceable event view you are working with to determine the problem.

If you do not have access to the Service Action Log, or serviceable event view on the hardware management console or service processor, then word 4 of the SRC has more information. Examine the last 4 digits in word 4 to determine the problem by comparing them to the list below and using the FRU(s) listed here.

1. xxxx2022 - IOP found in slots owned by a Linux partition. The Multi-adapter Bridge or PCI Bridge and PCI Bridge set that it controls are assigned to a Linux partition. The IOP found in the SLOT indicated by the DSA in word 7 will not be configured.
2. xxxx2014 - I/O adapters were found under the Multi-adapter Bridge or PCI Bridge but there is no IOP to support them. The adapters cannot be used.
3. xxxx2015 - An card type was found that cannot be supported in the card position where it is located.

## A6xx6965 • A6xx696B

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

### A6xx6965

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** Card type not supported in this slot.

An I/O processor or I/O adapter card type is installed in the location indicated in word 7 of the SRC. The card type is not supported in that slot under the Multi-adapter Bridge or PCI Bridge. The card is unavailable.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

### A6xx6966

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** I/O processor removed from Multi-adapter Bridge or PCI Bridge card slot.

On the previous IPL an I/O processor was in the card location specified in word 7 of the SRC. The I/O processor was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

### A6xx6967

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** I/O adapter unavailable due to moved I/O processor card.

The I/O adapter specified in word 7 of the SRC is not available. On the previous IPL there was an I/O processor card the adapter was assigned to. The I/O processor was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

### A6xx6968

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** IOA removed from Multi-adapter Bridge or PCI Bridge slot.

On the previous IPL an I/O adapter was in the card slot specified in word 7 of the SRC. That I/O adapter was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

### A6xx6969

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** I/O adapter replaced by I/O processor card.

On the previous IPL there was an I/O adapter in the location specified in word 7 of the SRC. This IPL LIC detected that the IOA was replaced by an IOP in that location.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

### A6xx696A

**Explanation:** Card slot test failed.

**Failing Item:**

- LICIP14
- FI00131
- BACKPLN

---

### A6xx696B

**Explanation:** Card slot could not be validated.

**Response:** This can be caused by "PCI error injection policy" being set to "YES" and an I/O Processor being installed on the same Multi-adapter Bridge or PCI Bridge domain as the I/O Adapter. Do one of the following. Either:

-- Using the hardware management console or a customer PC with a Web browser access the Advanced System Management Interface (ASMI) and disable PCI error injection policy.

OR:



-- Vary off the I/O Adapter. Using Hardware Service manager in SST/DST, locate the I/O Adapter resource. Using concurrent maintenance on the associated packaging resource, remove the I/O Adapter and install it in a location that does not have I/O Processors on the same Multi-adapter bridge domain.

OR:

-- Vary off the I/O Adapter. Use the concurrent maintenance option in Hardware Service Manager in SST/DST to power off all I/O Processors located on the same Multi-adapter Bridge or PCI Bridge domain as the I/O Adapter. Use concurrent maintenance to power off and power on the I/O Adapter. Then use concurrent maintenance to power on the I/O Processors located on the same Multi-adapter Bridge or PCI Bridge domain as the I/O Adapter.

---

#### A6xx6970

**Explanation:** High Speed Link (HSL) or PCI bridge card slot resource failure.

**Response:** A system PCI bus failure was detected. Word 7 of the SRC contains the bus number.

This failure can occur when a tower in an HSL loop is powered off using concurrent maintenance. If this is the case, close this problem.

This error is most likely in the hardware that makes up the PCI bus, the PCI bus side of the HSL I/O bridge or the Multi-adapter Bridge or PCI Bridge. In some cases it may be caused by a failing IOP in the Multi-adapter Bridge or PCI Bridge domain. When an IOP is causing the problem, the failing IOP cannot be identified.

NOTE: This SRC can occur for the PCI bus resource on a PCI bus in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

If the Service Action Log, or serviceable event view on the hardware management console or service processor, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SI\_PHB
- PRL\_PCI
- MA\_BRDG
- MABIP03
- BRDGSET
- OPT\_CLN

---

#### A6xx6971

**Explanation:** High Speed Link (HSL) or PCI bridge card slot resource failure.

**Response:** A failure occurred in a Multi-adapter Bridge or PCI Bridge or on the bus to the card location it controls.

If a serviceable event view is available, use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available, use the failing item list documented here.

**Failing Item:**

- MABIP02
- MA\_BRDG
- MASBUS
- PIOCARD

---

#### A6xx6972

**Explanation:** High Speed Link (HSL) or PCI bridge card slot resource failure.

**Response:** Multi-adapter Bridge (MaB) or PCI Bridge failure detected.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- MA\_BRDG

---

#### A6xx6973

**Explanation:** High Speed Link (HSL) or PCI bridge card slot resource failure.

**Response:** Multi-adapter Bridge or PCI Bridge has detected a problem in the card installed in the location specified in word 7 of the SRC. Use the FRU list in the Service Action Log (SAL), or serviceable event view you are working with. If you are working from this document's FRU list use the Symbolic FRU BRDGSET to determine the failing items.

**Failing Item:**

## A6xx6974 • A6xx6982

- BRDGSET
- SIIOADP
- MA\_BRDG

---

### A6xx6974

**Explanation:** Multi-adapter Bridge or PCI Bridge configuration change or error.

**Response:** PCI I/O processor rejected the assignment of or the removal of an I/O adapter.

**Failing Item:**

- MABRCFG

---

### A6xx6975

**Explanation:** The system issued a reset/reload to the service processor.

**Response:** Service processor error.

**Failing Item:**

- AJDGP01

---

### A6xx6976

**Explanation:** Service processor failure.

**Response:** For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or a serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event viewer is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SVCPROC

---

### A6xx6980

**Explanation:** Network Interface Controller / IO Hub failure.

**Response:** For Power5 and newer servers, service this error using the B7006980 service information. Otherwise, continue with this information.

The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SICNTRL
- OPT\_CLN

---

### A6xx6981

**Explanation:** High Speed Link (HSL) or PCI bridge card slot I/O bridge failure.

**Response:** For Power5 and newer servers, service this error using the B7006981 service information. Otherwise, continue with this information.

Cycle power on the frame identified as the frame with failed HSL I/O Bridge prior to replacing FRUs.

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are using, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

If you find either a B6xx 6982 or B6xx 6984 SRC logged at approximately the same time as this SRC then they were caused by the same failure. If you find a 6982 SRC logged at approximately the same time then close this problem and service the 6982 SRC. The failing item listed for this SRC is one of the failing items listed for B6xx 6982. If the serviceable event view's entry for this SRC has a location listed then record the location for use in servicing the 6982 SRC.

NOTE: This SRC can occur for the HSL I/O Bridge resource in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
- OPT\_CLN

---

### A6xx6982

**Explanation:** High Speed Link (HSL) connection failure.

**Response:** For Power5 and newer servers, service this error using the B7006982 service information. Otherwise, continue with this information.

If this SRC is not in the Service Action Log (SAL) or serviceable event view you are using, then it is informational or statistical only. It does not require a service action.

Otherwise, this is a connection failure on an HSL link. Perform the procedure indicated in the failing item list.

**Failing Item:**

- RIOIP09

- HSL\_LNK
- SIOADP
- SICNTRL
- REM\_NIC
- OPT\_CLN

---

#### A6xx6983

**Explanation:** A High Speed Link (HSL) / RIO / 12X loop configuration event was detected. The loop may have an unsupported configuration or a configuration that is not valid or the loop is in a state that LIC is logging for potential future reference.

**Problem determination:** LIC is reporting an event about the state of a RIO / HSL / 12X loop. Word 4 of the SRC contains the program return code (PRC) which identifies the state or problem with the loop.

For Power5 and newer servers, if this event appears in a serviceable event view then a service action is required. This SRC may also be logged as informational when it is recording information about the loop that is not a problem for the LPAR.

If this event does not appear in a serviceable event view then no service is required. To determine what the event meaning is record the PRC in word 4 of the SRC then use symbolic FRU SIRGCFG. This completes the procedure.

If this event appears in a serviceable event view then search for a B7006983 serviceable event logged at about the same time.

Did you find a B7006983 serviceable event logged at about the same time in the LPAR?

- YES - Service this error by working the B7006983 error.
- NO - Continue working this SRC. If you are using the Service Action Log (SAL) the FRU description may already indicate the configuration problem. Otherwise record the PRC in word 4 of the SRC. Use symbolic FRU SIRGCFG to determine the problem.

#### Failing Item:

- SIRGCFG

---

#### A6xx6984

**Explanation:** High Speed Link (HSL) loop status message.

**Response:** For Power5 and newer servers, service this error using the B7006984 service information. Otherwise, continue with this information.

An HSL loop has switched to its alternate path. This is an informational SRC only.

Word 7 of the SRC contains the loop number in the leftmost 4 digits. The loop number is in hexadecimal format. You must convert the hexadecimal loop number

into decimal format to recognize the loop number in HSM.

This SRC can be caused by a tower on the HSL loop powering off.

This SRC may also appear in the Service Action Log (SAL), or serviceable event viewer you are using, with a B6xx 6982 or B6xx 6981 logged at approximately the same time. In that case the other SRC is reporting a failure and this SRC is reporting that the alternate HSL path is now being used. Service the other SRC if present.

---

#### A6xx6985

**Explanation:** High Speed Link (HSL) loop status message.

**Response:** For Power5 and newer servers, service this error using the B7006985 service information. Otherwise, continue with this information.

If this SRC is not in the Service Action Log (SAL), or serviceable event view you are using, then it is informational. Use FRU SIRSTAT to determine what this SRC means. Otherwise, continue with the following steps:

This error can appear as a serviceable event when a tower, or I/O unit or another system in the loop did not complete powering on before LIC on this system checked this loop for errors. Search the Product Activity Log (PAL) for the last B6xx 6985 SRC logged for this loop and use FRU SIRSTAT to determine if this error requires service. If the last entry indicates the loop is functioning (determined by FRU SIRSTAT) then no service action is required, close this problem

There may be multiple B6xx 6985 logs with xxxx 3205 in word 4 errors for the same loop resource in the serviceable event view. This is caused by retry and recovery attempts. If there is a B6xx 6985 with xxxx 3206 or xxxx 3208 in word 4 after the above B6xx 6985 entries in the PAL, then the recovery efforts were successful. If this is the case, close all the B6xx 6985 entries for that loop resource in the serviceable event view.

1. If you find a B6xx 6981 in the serviceable event view then close that problem and go to step 2. Otherwise perform the following:

- Perform RIOIP06 to determine if any other systems are connected to this loop and return here. (HSL\_LNK or HSLxxxx FRU in the Service Action Log (SAL) entry, or serviceable event view you are working with, indicates the loop number.) If there are other system(s) then continue with the steps that follow, otherwise go to step 2.
- Check for HSL failures on the other system(s) before replacing parts. HSL failures are serviceable event entries with HSL I/O Bridge and Network Interface Controller (NIC)

## A6xx6986 • A6xx6988

resources. Ignore B6xx 6982 and B6xx 6984 entries. If there are HSL failures on other system(s) then continue with the steps that follow, otherwise go to step 2.

- Repair the problems on the other systems and return to this step. After making repairs on the other system(s) check the Product Activity Log (PAL) of this system for a B6xx 6985 logged after the repairs you made on the other system(s). If you find one then continue with the steps that follow, otherwise go to step 2.
  - For the B6xx 6985 log you found, use FRU SIRSTAT to determine if the loop is now complete. If the loop is complete then this problem has been resolved. Use RIOIP01 to verify that the loop is now working properly. Otherwise, go to step 2.
2. Use the serviceable event's FRU list when it is available. If this SRC appears in the Service Action Log (SAL), or the serviceable event view you are using, with the Symbolic FRU HSL\_LNK or HSLxxxx listed as a FRU, then perform problem isolation procedure RIOIP01. Otherwise exchange the FRUs listed in the serviceable event view.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

### Failing Item:

- SIRSTAT
- HSL\_LNK
- SIOADP
- SICNTRL
- OPT\_CLN

---

### A6xx6986

**Explanation:** System bus error.

**Response:** For Power5 and newer servers, service this error using the B7006986 service information. Otherwise, continue with this information.

During IPL, system LIC detected an HSL I/O bridge that was already initialized. The bridge should have been in a flushed and uninitialized state after powering on. There is a problem with SPCN components that prevented the tower from powering off after a previous power off was issued. The tower will not be configured for this IPL.

This reference code is equivalent to 1xxx 90F0. When referring to the "CBLALL" symbolic FRU in the Failing Item list, perform the "CBLALL" procedure using reference code "90F0".

Word 5 of the SRC identifies the frame. Determine the frame by breaking down word 5:

Word 5 -> xxxx xxNN where: NN is the frame number in hexadecimal format.

### Failing Item:

- TWRCARD
- CBLALL

---

### A6xx6987

**Explanation:** High Speed Link (HSL) connection failure.

**Response:** For Power5 and newer servers, service this error using the B7006987 service information. Otherwise, continue with this information.

Failures are occurring on the HSL link.

There may be B6xx 6982 errors logged on the same loop and about the same time as this error. Close those errors and continue to correct the problem by working this error.

- If there is a cable FRU in the serviceable event entry:
  1. If the connection is copper and either end has a loose connection, re-seat the cable. To do this, disconnect the connection and wait a minimum of 30 seconds. Then reconnect the cable and complete the tightening process in at most 30 seconds. Repeat the process at the other end of the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), or serviceable event view you are using.
  2. If the connection is optical, clean the connections at both ends of the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), serviceable event view you are using.
  3. If the error persists, replace the FRUs at each end of the cable starting with the FROM FRU listed in the serviceable event view you are using.
- If there was no cable in the Service Action Log (SAL), or serviceable event view you are using, then replace the FRUs listed in the serviceable event view.

### Failing Item:

- HSL\_LNK
- OPT\_CLN

---

### A6xx6988

**Explanation:** A High Speed Link (HSL / HSL2) or RIO / RIO-G loop was detected on the system this LPAR is running on. This version of the operating system does not support resources on an HSL / HSL2 / RIO / RIO-G loop. If resources on the loop are assigned to this LPAR, for example in the partition profile, the resources will not show up in this IBM i LPAR.

---

**A6xx6990**

**Explanation:** Service processor failure.

**Response:** The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

**Failing Item:**

- SVCPROC
- 

**A6xx6991**

**Explanation:** Service processor failure.

**Failing Item:**

- AJDGP01
- 

**A6xx6992**

**Explanation:** Service processor failure.

**Failing Item:**

- AJDGP01
- 

**A6xx6993**

**Explanation:** Service processor failure.

**Response:** A failure occurred with the service processor hardware or the service processor LIC.

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

**Failing Item:**

- SVCPROC
  - AJDGP01
- 

**A6xx6994**

**Explanation:** Service processor failure.

**Response:** The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

**Failing Item:**

- SVCPROC
- 

**A6xx699C**

**Explanation:** Wrap plug is installed on Bus Expansion Adapter card.

**Response:** This reference code is for information only.

It indicates the presence of a wrap plug on the local optical link card.

---

**A6xx69A8**

**Explanation:** Informational bus reference code.

**Response:** This reference code is for information only and might include the following:

- Optical speed encode.
  - Broken optical links now operational.
  - Other information.
- 

**A6xx69B8**

**Explanation:** Bus hardware configuration problem.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**A6xx69C1**

**Explanation:** A failure occurred communicating with another LPAR or system participating in Opti-connect with this LPAR or system. Starting with IBM i release 7.1 this event will be logged in the Product Activity Log but it will not be in the Service Action Log or the Problem Log. This event normally occurs when the other LPAR or system is powered off. If both LPARs or systems are running and have no Opti-connect errors then this event is indicating a possible problem with Opti-connect.

**Response:** Contact your next level of support if you suspect an Opti-connect problem. Otherwise this is a tracking event.

**Failing Item:**

- NEXTLVL
- 

**A6xx69C2**

**Explanation:** HSL Opticonnect normal connect to another sys. or partition.

**Response:** This reference code is informational only.

HSL OptiConnect has established connection normally. The local system or partition is participating in HSL Opticonnect with other systems or partitions on the same HSL loop.

---

**A6xx69C3**

**Explanation:** HSL Opticonnect normal disconnect from other sys. or partition.

**Response:** This reference code is informational only.

HSL Opticonnect disconnected normally from a remote node. The local system or partition has stopped

## A6xx69C5 • A6xx69C8

participating in HSL Opticonnect with the remote system or partition on the same HSL loop. Possible reasons include:

- A remote system or partition went off line due to a normal power off or disable of HSL Opticonnect.

---

### A6xx69C5

**Explanation:** I/O processor failure.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A6xx69C6

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. The problem is most likely with the remote system or partition. Intervention at the remote system is most likely required. Examine both the local and remote HSL OptiConnected systems or partitions for problems on this HSL loop.

Possible reasons include: A fatal error in software or hardware in the remote system or partition or a power failure in the remote system.

If there was not a complete HSL loop before this error occurred then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for a problem with: an HSL cable, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the Service Action Log (SAL), or serviceable event view you are using on the local system or partition for HSL failures on the same HSL loop at approximately the same time this error occurred.

Examine the remote system or partition for problems. If the remote system or partition is powered on and IPL'd then examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers. When the remote system is IPL'd it will automatically reconnect with this system or partition.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on both systems. Be

sure to record all words in the SRC. Contact your next level of support.

**Failing Item:**

- REM\_SYS

---

### A6xx69C7

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required.

Possible causes are: time out, hang or hardware failure. The problem may be with: the local system or partition or the remote system or partition.

If there was not a complete HSL loop before this error then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for SRCs with FRUs like: HSL cables, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the SAL or serviceable event view you are working with on the local system or partition for failures on the same loop, or with the Network Interface Controller at approximately the same time.

Examine the remote system or partition for problems. Correct any HSL or NIC problems you find with the remote and local systems or partitions.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log (PAL) information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

**Failing Item:**

- REM\_SYS
- LOC\_SYS

---

### A6xx69C8

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. All of the HSL OptiConnect connections on this loop will be in a failed state. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required. Possible causes are:

- time out of a critical message
- LIC code / table problem

- Network deadlock detected

The problem may be with:

- The local system or partition
- The remote system or partition

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL failures on the same HSL loop, or with the Network Interface Controller at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop or with the Network Interface Controller at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on all systems or partitions. Be sure to record all words in the SRCs. Contact your next level of support.

**Failing Item:**

- REM\_SYS
- LOC\_SYS
- AJDG301

---

**A6xx69C9**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an failure in a LIC virtualized bus unit. LIC will attempt to recover from the error. Possible causes are:

- LIC problem where the local bus unit is off line.
- LIC problem where the remote bus unit is off line.

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or the serviceable event view you are using, on the remote

system or partition for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

**Failing Item:**

- AJDG301
- REM\_SYS
- LOC\_SYS

---

**A6xx69CF**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** LIC internal error. All systems participating in HSL OptiConnect will be disconnected. The system must be re-IPL'd to recover. Before re-IPL'ing the system initiate a main store dump.

After getting the dump, examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote systems or partitions for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote systems or partitions for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

**Failing Item:**

- AJDG301

---

**A6xx69D0**

**Explanation:** Bus Expansion Adapter card failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6xx69D8**

**Explanation:** Bus Expansion Adapter failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

## A6xx69D9 • A6xx7004

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### A6xx69D9

**Explanation:** Host Ethernet Adapter (HEA) failure.

**Response:** Firmware detected a hardware failure in the Host Ethernet Adapter (HEA).

**Failing Item:**

- HEA

---

### A6xx69DA

**Explanation:** System log entry only, no service action required.

---

### A6xx69DB

**Explanation:** LIC failure.

**Response:** A Licensed Internal Code error occurred. The partition will continue to run with this Host Ethernet Adapter (HEA) disabled. Perform a partition dump and then IPL the partition to recover the HEA. Send the partition dump to your next level of support.

**Failing Item:**

- SVCDOCS

---

### A6xx69DC

**Explanation:** The Host Ethernet Adapter (HEA) is not connected to the Ethernet switch.

**Response:** The Host Ethernet Adapter (HEA) is not connected to the Ethernet switch. If the HEA connection is not needed, no service action is required.

If the HEA connection is needed, verify that the cable is connected and the switch is powered on. After repairing the problem, verify that the connection has been restored.

---

### A6xx69DD

**Explanation:** The Host Ethernet Adapter (HEA) connection to the Ethernet switch has been restored.

**Response:** System log entry only, no service action required.

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### A6xx69DE

**Explanation:** Host Ethernet Adapter (HEA) Media Interface Adapter Failure.

**Response:** Firmware detected a failure in the HEA Media Interface Adapter.

**Failing Item:**

- HEA
- AJDG301

---

### A6xx69E0

**Explanation:** Bus Expansion Adapter card failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A6xx69E8

**Explanation:** Bus Expansion Adapter failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A6xx69F0

**Explanation:** Bus Expansion Adapter failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A6xx69F8

**Explanation:** Bus Expansion Adapter failed.

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

### A6xx7001

**Explanation:** ISDN call in rejected.

**Failing Item:**

- UG3LB

---

### A6xx7002

**Explanation:** Lines not selected.

**Failing Item:**

- UG3LB

---

### A6xx7003

**Explanation:** Network interfaces not selected.

**Failing Item:**

- UG3LB

---

### A6xx7004

**Explanation:** TCP/IP informational error.

**Response:** This reference code is logged when the TCP/IP Attribute Log Protocol Errors is set, and the TCP/IP System LIC silently discards an in bound



datagram. Silently discard is defined to mean discard the received datagram without reporting an error to the originating host device. Examples of such datagrams are those with checksums or destination addresses which are not valid.

This reference code is for information only. Normally no action should be taken as a result of this reference code. It is generated in order to assist with remote device or TCP/IP network problem determination.

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#### A6xx7055

**Explanation:** Statistics were logged, no service action required.

**Response:** This reference code is logged for information only.

---

#### A6xx7100

**Explanation:** APPN session initiation attempt has timed out.

**Response:** This reference code is used to indicate that LIC timed out on a request to initiate a session.

The user must run problem analysis for this reference code. If this indicates a software problem, the user should dial IBM Software Support for assistance.

The Problem Determination Procedure (PDP) will indicate whether the original timeout condition still exists and what the corrective actions should be.

**Failing Item:**

- AJDG301
- UPLF3
- UPLF1
- UPLF2

---

#### A6xx7101

**Explanation:** APPN session initiation attempt has failed.

**Response:** This reference code is used to indicate that LIC attempted to satisfy a session initiation request, but some failure condition was detected by LIC. The failure condition could be a configuration or operational problem in the network.

The user must run problem analysis for this reference code. If this indicates a software problem, the user should dial IBM Software Support for assistance.

The Problem Determination Procedure (PDP) will indicate whether the original timeout condition still exists and what the corrective actions should be.

**Failing Item:**

- UPLF4
- UPLF5

- UPLF6
- AJDG301

---

#### A6xx7102

**Explanation:** APPN CP-CP session ended.

---

#### A6xx7201

**Explanation:** A utility failure occurred.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a utility failure.

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#### A6xx7202

**Explanation:** Utility power restored.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting that utility power has been restored.

---

#### A6xx7203

**Explanation:** A battery low condition was detected.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a battery low condition.

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#### A6xx7204

**Explanation:** Uninterruptible Power System reported a bypass active.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a bypass is active.

---

#### A6xx7205

**Explanation:** Battery low condition was reset.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a battery low condition.

---

#### A6xx7206

**Explanation:** UPS reported bypass no longer active.

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a bypass active condition.

---

#### A6xx720A

**Explanation:** Battery Power Unit replacement dates do not match.

**Response:** The replacement dates for one of the Battery Power Units do not match. Run "Display

## A6xx7703 • A6xx8007

Hardware Configuration" and verify that the dates match the labels on the batteries.

---

### A6xx7703

**Explanation:** System LIC detected a program exception.

**Response:** Storage Management detected a DASD datacheck condition and the defective sector was reallocated.

Perform a system IPL to restart the system.

---

### A6xx7704

**Explanation:** General failure detected by HRI component.

**Failing Item:**

- AJDG301

---

### A6xx7777

**Explanation:** Hardware configuration change detected.

**Response:** A hardware resource is missing. The resource reported in to the system on a previous IPL, but has not reported in on the current IPL. This could occur for several different reasons.

1. It could be a normal situation where the resource is currently powered off. In this case, when the resource is powered back on, it will no longer be missing.
2. The hardware resource could also be missing if it has been removed from the system, for example, a tape drive that was replaced with a different tape drive. The service representative should use the Hardware service manager to remove the entry for this resource.
3. The resource may not have reported in on this IPL because it is failing. Perform problem analysis to determine why the resource is failing.

---

### A6xx8000

**Explanation:** A storage subsystem disk unit connection failed.

**Response:** Look for other errors in the Service Action Log (SAL), or serviceable event view you are working with, and fix them.

---

### A6xx8001

**Explanation:** A storage subsystem disk unit connection failed.

**Response:** Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6xx8002

**Explanation:** Maximum number of redundant connections exceeded.

**Response:** An attempt to activate a connection from another I/O adapter to a storage subsystem disk unit failed because the maximum number of connections are already active for this disk unit. No action required.

---

### A6xx8003

**Explanation:** A storage subsystem disk unit connection was restored.

**Response:** No action required.

---

### A6xx8004

**Explanation:** A storage subsystem disk unit connection failed.

**Response:** Could not read configuration information from the disk unit. Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6xx8005

**Explanation:** High performance connection failed.

**Response:** A high performance connection to an external storage subsystem disk unit failed.

There are still two or more external storage subsystem disk unit connections, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6xx8006

**Explanation:** High performance connection failed.

**Response:** A high performance connection to an external storage subsystem disk unit failed.

There is still one more external storage subsystem disk unit connection, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6xx8007

**Explanation:** High performance connection was restored.

**Response:** A high performance connection to an external storage subsystem disk unit was restored.

Performance is no longer degraded.

No action required.

---

#### A6xxB700

**Explanation:** A platform firmware error log was signalled to LIC but could not be retrieved from platform firmware. LIC created this event in the PAL with SRC B600B700 to log the problem.

**Problem determination:** Contact your hardware service provider. This is a platform firmware problem.

**Failing Item:**

- NEXTLVL

---

#### A6xxCF00

**Explanation:** Permanent error on removable media device.

**Response:** A type D IPL terminated because of a removable media Load Source device failure. If the removable media Load Source is an external device, check the cables. If that does not correct the problem, replace the device. If the removable media Load Source is an internal device, replace the device. If the removable media Load Source is a virtual device, ensure it is set up correctly.

**Failing Item:**

- SVCDOCS

---

#### A6xxCF01

**Explanation:** Unsupported removable media device configuration.

**Problem determination:** A type D IPL terminated because of an unsupported removable media device configuration. Retry the D-IPL with a different removable media device.

**Failing Item:**

- SVCDOCS

---

#### A6xxCFFC

**Explanation:** Optical library device condition not expected.

**Response:** The optical disk drive addressing within the optical library is incorrect. This error is likely to be the result of faulty cabling or switch setting following service to an optical library.

Contact your hardware service provider.

**Failing Item:**

- OPTLCBL
- DRVSWCH

---

#### A6xxCFFD

**Explanation:** Optical drive failure.

**Failing Item:**

- OPTLDRV

---

#### A6xxCFFF

**Explanation:** Media determined to be bad in Optical library.

---

#### A6xxF103

**Explanation:** Main storage dump must be copied for service.

**Failing Item:**

- LICIP01

---

#### A6xxF104

**Explanation:** LPAR service function directed a Main Storage Dump.

**Response:** The Hypervisor terminated a partition with an unresponsive Operating System. A Main Store Dump must be done for service. Call your next level of support when the dump is complete.

**Failing Item:**

- LICIP01

---

#### A6xxF105

**Explanation:** Licensed Internal Code detected error.

**Failing Item:**

- NEXTLVL

---

#### A6xxFDC0

**Explanation:** LIC program reported informational error.

**Response:** This reference code is logged for information only. No action required.

---

#### A6xxFDC5

**Explanation:** LIC program failed and data was captured.

**Response:** This reference code indicates first failure data capture (FFDC) data was collected for a problem reported by licensed internal code.

The user should dial IBM Software Support for assistance.

**Failing Item:**

- UG3AS



---

## (A7xx) Reference codes

An A7xx reference code indicates that an event or error was detected and logged by platform firmware. To resolve an A7xx reference code, determine if the SRC requires a service action. If the SRC is listed in a serviceable event view, use the FRU list from the serviceable event view to determine the actions to take. If you do not find the SRC in a serviceable event view, then it is an informational event and does not require service action.

---

### A7001150

**Explanation:** System log entry only, no service action required

**Response:** No action needed unless a serviceable event was logged. If a serviceable event was logged, resolve that error.

---

### A7001151

**Explanation:** System log entry only, no service action required

**Response:** No action needed unless a serviceable event was logged. If a serviceable event was logged, resolve that error.

---

### A7001152

**Explanation:** Platform firmware detected a timeout condition.

**Response:** A reset/reload of the service processor has cleared the timeout condition.

If a service processor dump exists, it should be collected for IBM Service.

**Failing Item:**

- NEXTLVL

---

### A7001160

**Explanation:** Service processor failure

**Response:** Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The platform encountered an error communicating with the service processor. The platform code attempts a graceful shutdown of partitions and powers off the server after a certain time, or when the last partition indicates shutdown, whichever comes first.

**Failing Item:**

- LICCODE
- SVCPROC
- PSI\_LNK

---

### A7001161

**Explanation:** System log entry only, no service action required

**Response:** The platform encountered a service processor event indicating that the power status has changed. Note that this is A7xx only.

---

### A7001730

**Explanation:** Platform LIC detected an error

**Response:** The VPD for the system is not what was expected at IPL.

When word 9 is 00180003, a redundant VPD chip exists, and the system will continue to run. Replace the VPD card at your next scheduled maintenance. When word 9 is not 00180003 replace the VPD card immediately.

Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.

**Failing Item:**

- CAPACTY

---

### A700173A

**Explanation:** A VPD collection overflow occurred

**Response:** Look for and resolve other errors in the serviceable event view. If that does not resolve the problem, check for firmware updates and install them, if available. If that does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### A700173C

**Explanation:** Generic Asset Protection Event. No service action is required.

**Response:**

**Problem determination:**

---

### A7003000

## A7003003 • A7004712

**Explanation:** User-initiated PHYP-generated SYSDUMP.

**Response:** No service action required.

---

### A7003003

**Explanation:** User-initiated PHYP-content RSCDUMP.

**Response:** No service action required.

---

### A7004091

**Explanation:** User intervention required

**Response:** The system power on has reached a standby state. The firmware does not have partition configuration information.

Use the HMC OR SDMC to activate one or more partitions to change the system from a standby state to an operating state. If the HMC or SDMC does not manage the server, perform Restoring your server to factory settings.

**Failing Item:**

- SVCDOCS
- 

### A7004700

**Explanation:** Platform LIC detected an error

**Response:** A problem occurred when initializing, reading, or using system VPD.

Capacity on Demand is not available because the stored activation code is not valid. Contact your next level of support to verify your activation code. If the activation code is valid, replace the VPD card.

**Failing Item:**

- SVCDOCS
  - CAPACTY
- 

### A7004701

**Explanation:** Platform LIC detected an error

**Response:** A problem occurred when initializing, reading, or using system VPD. The IPL failed.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

**Failing Item:**

- CAPACTY
- 

### A7004703

**Explanation:** Platform LIC failure

**Response:** A problem occurred when initializing, reading, or using system VPD. The Capacity on Demand function is not available. If Capacity on

Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.

**Failing Item:**

- LICCODE
- 

### A7004704

**Explanation:** Platform LIC detected an error

**Response:** The Capacity on Demand function is no longer available. If Capacity on Demand functions are required, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View. If that does not correct the problem, or no errors were found, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### A7004705

**Explanation:** Platform LIC failure

**Response:** A problem occurred when initializing, reading, or using system VPD. The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

### A7004710

**Explanation:** Platform LIC detected an error

**Response:** A communications problem with the service processor occurred while initiating Capacity on Demand. The Capacity on Demand function is not available.

If Capacity on Demand function is required, look for errors with SRCs of the form B1xxxxxx or B7xx69xx in the Serviceable Event View. Work those errors. If that does not correct the problem, proceed with the failing items listed in the serviceable event view for this SRC.

**Failing Item:**

- SVCDOCS
  - CAPACTY
- 

### A7004712

**Explanation:** Platform LIC detected the VPD card is missing

**Response:** A problem occurred when initializing, reading, or using system VPD.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented

here to determine the parts to exchange.

**Failing Item:**

- CAPACTY

**A7004713**

**Explanation:** Platform LIC detected an error

**Response:** The VPD card has been exchanged with a not valid card. Reinstall the original VPD card in the system.

**Failing Item:**

- SVCDOCS

**A7004714**

**Explanation:** Platform LIC has detected a new VPD card

**Response:** The new VPD card requires new activation codes. Enter the new activation codes.

**A7004715**

**Explanation:** Platform LIC detected an error

**Response:** A problem occurred when initializing, reading, or using system VPD during concurrent maintenance.

Look for errors with SRCs of the form B1xxxxxx in the Serviceable Event View. Work those errors first. If that does not correct the problem, replace the VPD card.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

**Failing Item:**

- SVCDOCS
- CAPACTY

**A7004716**

**Explanation:** User intervention required

**Response:** The Capacity on Demand activation code recovery period has been started. Either obtain more capacity by obtaining new activation codes or allocate fewer resources in the LPAR configuration.

**Failing Item:**

- SVCDOCS
- LPARCFG

**A7004721**

**Explanation:** The World Wide Port Name (WWPN) Prefix is not valid.

**Response:** Contact your hardware service provider to obtain a valid World-Wide Port Name (WWPN). Once

you have obtained a valid WWPN value, go to ASM and select: System\_Configuration-> Program\_Vital\_Product\_Data-> System\_Keywords. On the System\_Keyword menu, enter the value for the 'WN' keyword.

**Failing Item:**

- SVCDOCS

**A7004730**

**Explanation:** Platform LIC detected an error

**Response:** A problem occurred when configuring the logical partitions on the system. More resources were allocated than there are available for use. Either obtain more capacity by obtaining new activation codes or allocate fewer resources in the LPAR configuration.

**Failing Item:**

- SVCDOCS
- LPARCFG

**A7004731**

**Explanation:** Platform LIC detected an error

**Response:** The system has been running with full Capacity on Demand resources activated. In one hour, the system will terminate and unlicensed resources will no longer be available. To prevent the system from terminating, enter an activation code of all zeroes. Then obtain the proper activation codes for the resources being used or allocate fewer resources in the LPAR configuration.

**Failing Item:**

- SVCDOCS

**A7004733**

**Explanation:** Platform LIC failure

**Response:** The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.

**A7004735**

**Explanation:** Use of Processors for General Purpose work has exceeded number of licensed General Purpose Processors

**A7004736**

**Explanation:** Use of processors for general purpose work has exceeded number of licensed general purpose processors, for long enough that the server is calling in to IBM to report this issue.

**Failing Item:**

## A7004740 • A70047CB

- LINUXOVR

---

### A7004740

**Explanation:** Platform LIC detected an error

**Response:** An incorrect activation code has been detected. Resources associated with this activation code have been disabled. Enter a valid activation code.

---

### A7004741

**Explanation:** Platform LIC detected an error

**Response:** The number of allowable attempts to enter a valid activation code has been exceeded. The system will continue to run, but a system IPL is required in order to retry entering a valid activation code.

---

### A7004742

**Explanation:** Generally represents a temporary communications failure between Server firmware and the VPD Card.

**Response:** A communications session between the server's firmware and the VPD Card in the FSP could not be established or was interrupted.

An isolated occurrence of this type of error can safely be ignored. However if these errors become fairly frequent, are clustered together, or are accompanied by other related (A70047xx) errors that they would require closer scrutiny to determine if a serviceable problem exists.

**Failing Item:**

- SVCDOCS
- CAPACTY

---

### A7004747

**Explanation:** User intervention required

**Response:** One hour remains until the On/Off Capacity on Demand request expires. Permanently activate the temporary Capacity on Demand resources, enter a new On/Off Capacity on Demand request for the temporary resources, or remove all temporary resources from partitions before the request expires.

**Failing Item:**

- SVCDOCS

---

### A7004748

**Explanation:** User intervention required

**Response:** One hour remains until the Utility Capacity on Demand enablement expires. In order to reactivate temporary resources, a new Utility Capacity on Demand enablement code is required.

**Failing Item:**

- SVCDOCS

---

### A7004749

**Explanation:** User intervention required

**Response:** One hour remains until the Trial Customer on Demand activation expires. Obtain a permanent activation code or remove all temporary resources from partitions before the request expires.

**Failing Item:**

- SVCDOCS

---

### A700474A

**Explanation:** System has Active Memory Mirroring (AMM) ON, but is not licensed for AMM use

**Problem determination:** The FSP or HMC interfaces have been used to set AMM to "ON" for the system. However, at IPL time, the system does not have a valid license for AMM. The customer needs to contact IBM or a Partner Sales representative to purchase and enter an Activation Code for this feature. If this is not possible, then turn off the system; use FSP or HMC interfaces to turn AMM "OFF"; and re-IPL.

**Failing Item:**

- SVCDOCS

---

### A7004750

**Explanation:** A Capacity on Demand change has been detected

**Response:** Utility Capacity on Demand resources have been activated.

---

### A7004788

**Explanation:** System log entry only, no service action required

**Response:** The data obtained from the system is not what was expected. The IPL will continue. Should other errors occur, contact your next level of support.

---

### A70047C1

**Explanation:** Capacity on Demand data mismatch

**Response:** The data obtained from the system is not what was expected. The system will perform a slow IPL in order to obtain the correct data. If other errors occur, contact your next level of support.

---

### A70047CB

**Explanation:** Fast system IPL changed to slow system IPL

**Response:** The data obtained from the system is not what was expected. The system will perform a slow



IPL in order to obtain the correct data. If other errors occur, contact your next level of support.

---

**A70047CD**

**Explanation:** Platform LIC detected an error

**Response:** The server detected a not valid Capacity On Demand activation and terminated the system. The allocated resources for the system might exceed those that are available for use.

**Failing Item:**

- SVCDOCS

---

**A70047FF**

**Explanation:** System log entry only, no service action required

**Response:** The Capacity on Demand History Log has been written to the error log. No service action is required.

---

**A700C2AC**

**Explanation:** System log entry only, no service action required

**Response:** The Capacity on Demand License acceptance has completed.

No corrective action is required.

**Failing Item:**

- SVCDOCS

---

**A7013003**

**Explanation:** Partition-initiated PHYP-content RSCDUMP.

**Response:** No service action required.



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## (AAxx) Reference codes

Partition firmware posts AAxx system reference (attention) codes, which offer information about the next target state for the platform firmware. These codes might also indicate that you need to perform an action, such as opening a firmware console or checking serial connections.

**Note:** Click the failing item in the FRU list only when you experience a hang condition on an attention code. For example, a hang condition occurs when your server performs a requested action but the SRC in the control panel display does not change for several minutes and the partition firmware appears to be hung.

---

### AA00E158

**Explanation:** Waiting for virtual terminal (VTERM) to be opened on the HMC.

**Explanation:** Admin access password prompt

**Failing Item:**

- FWPWD

---

### AA00E159

**Explanation:** Waiting for serial connection to the service processor to be established

---

### AA060007

**Explanation:** A keyboard was not found

---

### AA00E175

**Explanation:** The I/O configuration exceeds the recommended size. Some operating systems might crash when using this configuration.

---

### AA06000B

**Explanation:** The system or partition was not able to find an operating system on any of the devices in the boot list.

**Failing Item:**

- FWFLASH

---

### AA06000C

**Explanation:** The media specified in a device in the bootlist was not bootable

---

### AA00E1A8

**Explanation:** The system is booting to the open firmware prompt

---

### AA06000D

**Explanation:** The media in the device in the bootlist not found under the I/O adapter specified by the boot list.

**Failing Item:**

- FWFLASH

---

### AA06000E

**Explanation:** The adapter specified in the boot list is not present or not functioning.

---

### AA00E1A9

**Explanation:** The system is booting to the SMS menus

**Failing Item:**

- FWFLASH

---

### AA060010

**Explanation:** The FAT filesystem on the bootdisk is configured in a way that may cause a boot failure.

---

### AA00E1B0

**Explanation:** Waiting for the user to select language and keyboard.

---

### AA060011

**Explanation:** The firmware did not find the operating system image and is was unable to detect at least one hard disk in the boot list. Firmware is now retrying the entries in the boot list. This often occurs when the boot disk enclosure is not yet fully initialized or if the boot disk belongs to a server partition.

---

### AA00E1B1

**Explanation:** Waiting for the user to accept or decline the license agreement.

**Problem determination:** This error might occur before

---

### AA00E1F3

## AA100001 • AA260005

the initialization of an enclosure that contains the boot disk is complete or when the boot disk belongs to another partition.

If this problem persists, do the following:

1. Verify that the boot disk belongs to the partition that is being booted.
2. Verify that the boot list in the SMS menus is correct.

---

### AA100001

**Explanation:** The hypervisor failed to send an LP event to the partition firmware.

---

### AA100002

**Explanation:** A bad return code was received when the LP event acknowledgement was received from the hypervisor.

---

### AA130013

**Explanation:** Bootable media is missing from a USB-attached CD-ROM.

---

### AA130014

**Explanation:** The media in the USB CD-ROM drive has been changed.

---

### AA170210

**Explanation:** Setenv/\$setenv parameter error - the name contains a null character.

**Failing Item:**

- FWFLASH

---

### AA170211

**Explanation:** Setenv/\$Setenv parameter error - value contains a null character

**Failing Item:**

- FWFLASH

---

### AA170212

**Explanation:** Setenv/\$Setenv parameter error: name is null or too long. The name length is limited to 31 characters.

**Failing Item:**

- FWFLASH

---

### AA190001

**Explanation:** The server firmware function to get and set the time-of-day reported an error.

---

### AA260001

**Explanation:** The firmware is waiting for someone to enter the machine type, model, and serial number.

---

### AA260002

**Explanation:** The system is waiting for the serial number to be entered.

**Response:** Enter the serial number of the system at the prompt

---

### AA260003

**Explanation:** The system is waiting for the system unique ID number to be entered.

**Response:** Enter the system unique ID number at the prompt.

---

### AA260004

**Explanation:** The system is waiting for the worldwide port number to be entered.

**Response:** Enter the worldwide port number at the prompt.

---

### AA260005

**Explanation:** The system is waiting for the brand number to be entered.

**Response:** Enter the brand number at the prompt.

---

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This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Industry Canada Compliance Statement

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### Avis de conformité à la réglementation d'Industrie Canada

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**Warning:** This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

## VCCI Statement - Japan

この装置は、クラスA 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

The following is a summary of the VCCI Japanese statement in the box above:

This is a Class A product based on the standard of the VCCI Council. If this equipment is used in a domestic environment, radio interference may occur, in which case, the user may be required to take corrective actions.

### Japanese Electronics and Information Technology Industries Association (JEITA) Confirmed Harmonics Guideline (products less than or equal to 20 A per phase)

高調波ガイドライン適合品

### Japanese Electronics and Information Technology Industries Association (JEITA) Confirmed Harmonics Guideline with Modifications (products greater than 20 A per phase)

高調波ガイドライン準用品

## Electromagnetic Interference (EMI) Statement - People's Republic of China

### 声 明

此为 A 级产品, 在生活环境中, 该产品可能会造成无线电干扰。在这种情况下, 可能需要用户对其干扰采取切实可行的措施。

Declaration: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may need to perform practical action.



## Electromagnetic Interference (EMI) Statement - Taiwan

警告使用者：  
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

The following is a summary of the EMI Taiwan statement above.

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user will be required to take adequate measures.

### IBM Taiwan Contact Information:

台灣IBM 產品服務聯絡方式：  
台灣國際商業機器股份有限公司  
台北市松仁路7號3樓  
電話：0800-016-888

## Electromagnetic Interference (EMI) Statement - Korea

이 기기는 업무용(A급)으로 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

## Germany Compliance Statement

### Deutschsprachiger EU Hinweis: Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit

Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie 2004/108/EG zur Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten und hält die Grenzwerte der EN 55022 Klasse A ein.

Um dieses sicherzustellen, sind die Geräte wie in den Handbüchern beschrieben zu installieren und zu betreiben. Des Weiteren dürfen auch nur von der IBM empfohlene Kabel angeschlossen werden. IBM übernimmt keine Verantwortung für die Einhaltung der Schutzanforderungen, wenn das Produkt ohne Zustimmung von IBM verändert bzw. wenn Erweiterungskomponenten von Fremdherstellern ohne Empfehlung von IBM gesteckt/eingebaut werden.

EN 55022 Klasse A Geräte müssen mit folgendem Warnhinweis versehen werden:  
"Warnung: Dieses ist eine Einrichtung der Klasse A. Diese Einrichtung kann im Wohnbereich Funk-Störungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen zu ergreifen und dafür aufzukommen."

#### **Deutschland: Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit von Geräten**

Dieses Produkt entspricht dem "Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG)". Dies ist die Umsetzung der EU-Richtlinie 2004/108/EG in der Bundesrepublik Deutschland.

#### **Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG) (bzw. der EMC EG Richtlinie 2004/108/EG) für Geräte der Klasse A**

Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen.

Verantwortlich für die Einhaltung der EMV Vorschriften ist der Hersteller:  
International Business Machines Corp.  
New Orchard Road  
Armonk, New York 10504  
Tel: 914-499-1900

Der verantwortliche Ansprechpartner des Herstellers in der EU ist:  
IBM Deutschland GmbH  
Technical Regulations, Abteilung M372  
IBM-Allee 1, 71139 Ehningen, Germany  
Tel: +49 7032 15 2941  
email: lugi@de.ibm.com

Generelle Informationen:

**Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022 Klasse A.**

#### **Electromagnetic Interference (EMI) Statement - Russia**

**ВНИМАНИЕ!** Настоящее изделие относится к классу А.  
В жилых помещениях оно может создавать радиопомехи, для снижения которых необходимы дополнительные меры

#### **Class B Notices**

The following Class B statements apply to features designated as electromagnetic compatibility (EMC) Class B in the feature installation information.

#### **Federal Communications Commission (FCC) statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an IBM-authorized dealer or service representative for help.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from IBM-authorized dealers. IBM is not responsible for any radio or television interference caused by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **Industry Canada Compliance Statement**

This Class B digital apparatus complies with Canadian ICES-003.

### **Avis de conformité à la réglementation d'Industrie Canada**

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### **European Community Compliance Statement**

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. IBM cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication equipment.

European Community contact:  
IBM Deutschland GmbH  
Technical Regulations, Department M372  
IBM-Allee 1, 71139 Ehningen, Germany  
Tele: +49 7032 15 2941  
email: [lugi@de.ibm.com](mailto:lugi@de.ibm.com)

## VCCI Statement - Japan

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B

## Japanese Electronics and Information Technology Industries Association (JEITA) Confirmed Harmonics Guideline (products less than or equal to 20 A per phase)

高調波ガイドライン適合品

## Japanese Electronics and Information Technology Industries Association (JEITA) Confirmed Harmonics Guideline with Modifications (products greater than 20 A per phase)

高調波ガイドライン準用品

## IBM Taiwan Contact Information

台灣IBM 產品服務聯絡方式：  
台灣國際商業機器股份有限公司  
台北市松仁路7號3樓  
電話：0800-016-888

## Electromagnetic Interference (EMI) Statement - Korea

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며, 모든 지역에서 사용할 수 있습니다.

## Germany Compliance Statement

Deutschsprachiger EU Hinweis: Hinweis für Geräte der Klasse B EU-Richtlinie zur  
Elektromagnetischen Verträglichkeit

Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie 2004/108/EG zur Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten und hält die Grenzwerte der EN 55022 Klasse B ein.

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#### **Deutschland: Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit von Geräten**

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#### **Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG) (bzw. der EMC EG Richtlinie 2004/108/EG) für Geräte der Klasse B**

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IBM-Allee 1, 71139 Ehningen, Germany  
Tel: +49 7032 15 2941  
email: [lugi@de.ibm.com](mailto:lugi@de.ibm.com)

Generelle Informationen:

**Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022 Klasse B.**

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