

Print Services Facility for OS/390



Messages and Codes

Version 3, Release 1.0

Print Services Facility for OS/390



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Version 3, Release 1.0

Note

Before using this information and the product it supports, be sure to read the general information in "Notices" on page v.

1st Edition (January 1999)

This edition applies to Print Services Facility Version 3 Release 1 Modification 0 for OS/390, Program Number 5655-B17, and to all subsequent releases and modifications until otherwise indicated in new editions or technical newsletters. For the changes made to this publication, see the Summary of Changes. Technical changes or additions to the text and illustrations are indicated by a vertical line to the left of the change. Be sure to use the correct edition for the level of the product.

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- VTAM

Year 2000 Ready

PSF 3.1.0 for OS/390 does not have date dependencies and is therefore Year 2000 ready. When used in accordance with its associated documentation, PSF is capable of correctly processing, providing, and receiving date data within and between the twentieth and twenty-first centuries, provided all other products used with PSF (including software, hardware, and firmware) properly exchange accurate date data with it.

About This Publication

This publication describes the messages and codes issued by IBM Print Services Facility for OS/390 (PSF for OS/390).

Who Should Read This Publication

This publication can be used by anyone who knows how to maintain and operate the printers that work with PSF for OS/390.

Note: Hereafter, PSF for OS/390 is referred to as PSF. In this publication, the word *printing* refers to presentation on paper, foils, labels, or microfilm.

Chapter 1, PSF for OS/390 Messages, lists the PSF messages, describes what the system does after an error occurs, and suggests what you should do to correct the problem. Chapter 2, System Completion Codes and PSF Abend Reason Codes, provides information about PSF codes. Appendix A, Problem Determination, describes the problem determination actions referred to in the message descriptions. The return reason codes contained in PSF dumps are described in *PSF for OS/390: Diagnosis*. The program completion codes for the APSRCF30 utility are described in *PSF for OS/390: Customization*.

How This Publication Is Organized

Chapter 1, PSF for OS/390 Messages, lists all the PSF messages in ascending numerical order. The message entries in this section provide:

Explanation

The explanation gives more information on the condition that caused PSF to issue the message.

System Action

The system action describes how the system responds to the condition.

User Response, System Programmer Response, and Operator Response

The user response, the system programmer response, and the operator response provide actions for recovering from the error condition. Often this part of the entry gives more than one recovery action, or a series of related recovery actions; this means that more than one problem may have caused the error.

Problem Determination:

The problem determination section provides actions to follow as outlined in Appendix A, Problem Determination. These actions are intended primarily for IBM representatives and should be used *only* if the system programmer and operator responses fail.

Note: PSF often issues more than one message for an error condition. When this occurs, use all the messages to define and correct the error.

Some message descriptions refer you to the publications for your printer for more information. Bibliography contains a listing of applicable printer publications.

Chapter 2, System Completion Codes and PSF Abend Reason Codes, lists all the PSF abend reason codes, in ascending numerical order. The code entries provide:

Explanation:

The explanation gives more information about the condition that caused PSF to abend.

System Action:

The system action specifies whether PSF is to attempt to restart automatically, or is to continue to terminate.

System Programmer Response:

If present, the system programmer response provides a suggested action for recovering from the error condition.

Message Destinations

PSF issues messages to one or more of the following destinations, depending on which is most appropriate:

Operator's console:

Messages that the operator or system programmer must address.

Security administrator's console:

Messages reporting security violations or errors in the processing of security functions.

Job submitter's console:

Messages reporting the completion or failure of a job to print.

In the printed output:

Messages reporting the position from which data is retransmitted during a recovery.

Following the printed output:

Messages describing errors in the data stream. Also, a duplicate copy of any message issued in the printed output.

SYSLOG data set

Issued if the NOTIFY parameter is specified on the JCL for the data set being transmitted.

Code Types

PSF messages contain information on these types of codes:

- Action codes
- Dynamic allocation error codes
- Event Control Block (ECB) completion codes
- Information codes
- Status codes
- PSF return reason codes
- PSF abend reason codes
- System completion codes
- SNA sense codes
- VTAM codes

In determining a recovery procedure, use these codes in addition to the information in this publication. The code explanations in this publication either tell you how to

interpret these codes, or refer you to another publication that contains the information you need.

Related Information

Publications that are referred to in this book or that contain additional information about Advanced Function Presentation (AFP), the MVS operating system, PSF, and related products are listed in the “Bibliography” on page 391.

For additional information about OS/390 and PSF for OS/390, refer to these Web pages:

<http://www.ibm.com/s390/os390>

<http://www.printers.ibm.com/pbin-id/go/?pdocs/psf390/home.html>

To obtain the latest documentation updates for OS/390 base elements and optional features that result from DOC APARs and PTFs, refer to the DOC APARs and ++HOLD DOC Web page:

http://www.s390.ibm.com/os390/bkserv/new_tech_info.html

To obtain the latest documentation updates for PSF for OS/390, refer to these members in SYS1.SAMPLIB:

Member	Publication
APSGCUSU	<i>PSF for OS/390: Customization, S544-5622</i>
APSGDGNU	<i>PSF for OS/390: Diagnosis, G544-5623</i>
APSGDLGU	<i>PSF for OS/390: Download for OS/390, G544-5624</i>
APSGMACU	<i>PSF for OS/390: Messages and Codes, G544-5627</i>
APSGSECU	<i>PSF: Security Guide, S544-3291</i>
APSGUSRU	<i>PSF for OS/390: User's Guide, S544-5630</i>

Summary of Changes

Summary of Changes for PSF for OS/390: Messages and Codes, G544-5627-00

This publication contains additions and changes to information previously presented in *PSF/MVS: Messages and Codes*, S544-3675-03, which supports PSF/MVS Version 2 Release 2.0. The technical additions and changes are marked with a revision bar to the left of the changes.

This edition contains new, changed, and deleted messages and abend reason codes. Table 1 contains the names of the new messages.

APS020I	APS030I	APS080I	APS081I	APS123I	APS128I	APS223I
APS224I	APS241I	APS383I	APS384I	APS385I	APS386I	APS387I
APS388I	APS389I	APS390I	APS391I	APS392I	APS393I	APS394I
APS395I	APS396I	APS397I	APS398I	APS399I	APS445I	APS479I
APS499I	APS615I	APS616I	APS617I	APS631I	APS632I	APS633I
APS634I	APS641I	APS642I	APS643I	APS644I	APS704I	APS706I
APS730I	APS735I	APS736I	APS770I	APS775I	APS776I	APS806I
APS814I	APS820I	APS829I	APS838I	APS839I	APS860I	APS863I
APS875I	APS885I	APS886I	APS926I	APS940I	APS941I	APS942I
APS943I	APS946I	APS947I	APS997I	APS998I		

The messages to which technical changes have been made are listed in Table 2. The table does not list messages to which only editorial changes have been made. Change bars mark almost all changes, including some minor editorial changes to message text to make the published messages conform to the online messages. The only changes *not* marked with change bars are minor editorial changes made for reasons of readability or style.

APS209I	APS360I	APS500I	APS501I	APS502I	APS503I
APS504I	APS532I	APS548I	APS555I	APS561I	APS563I
APS620I	APS707I	APS730I	APS819I	APS848I	APS872I
APS874I	APS934I	APS935I	APS948I	APS949	APS958I
APS970I	APS971I	APS972I	APS973I	APS974I	APS976I
APS977I	APS978I	APS979I	APS980I	APS989I	APS995I

Messages APS211I, APS361I, APS559I and APS865I have been deleted from this publication.

New and technically changed abend reason codes are listed in Table 3 on page xii.

01BB	0242	0243	0244	0245	025A	0264	02E6	0606
0629	0663	0736	0740	0820	0882	0883	08D5	0959
0E33	0E34	0E35	0E36	0E91	0E92	0E98	0E99	0E9A

Abend reason codes 02AD, 0E99 and 0EA6 have been deleted from this publication.

Chapter 1. PSF for OS/390 Messages

Format of the Messages

Each PSF message has a seven- or eight-character message identifier followed by the message text, as shown below:

APSnnnnt MESSAGE TEXT

where:

APS Identifies PSF messages
nnnn Three- or four-digit message number
t One-character type code

Type code Meaning

A Message requiring operator action
I Information message

In system console messages, additional information is inserted between the message ID and the message text. This information identifies the specific functional subsystem application that issued the message. Most system console messages have the following format:

APSnnnnt *jobname jobstep procstep device name attachment* MESSAGE TEXT

where:

jobname The jobname of the startup procedure.

jobstep The fssname in the job.

procstep The step name in a procedure. When PSF is managing a system output device for deferred printing under JES, this item is not filled in.

device name The name of the printer.

attachment (SNA)—For a Systems Network Architecture-attached printer.

(TCP)—For a TCP/IP-attached printer.

(nnn)—For a channel-attached printer with a three-digit device number.
nnn is the device number.

(nnnn)—For a channel-attached printer with a four-digit device number.
nnnn is the device number.

*(***)*—If the value cannot be determined.

For Download for OS/390 messages, APS095I and APS986I through APS997I, the format is similar:

APSnnnnt *jobname jobstep *** *** MESSAGE TEXT

jobname The jobname of the startup procedure.

jobstep The FSS name within the job.

PSF Messages

APS000I *subsystem* SUBSYSTEM ACTIVE.

Explanation: The PSF Direct Printer Services Subsystem is active.

System Action: This message is only for information.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS001I *subsystem* SUBSYSTEM INITIALIZATION FAILED, RC = *return code*, [MODULE ACCESSED *module*].

Explanation: The PSF Direct Printer Services Subsystem identified in this message failed to initialize. If you are using a 3800, until the problem is resolved, the 3800 can be directly allocated only if it is in compatibility mode.

System Action: The PSF Direct Printer Services Subsystem is not active.

User Response: No response is necessary.

System Programmer Response: The associated return code issued by the subsystem service routine is given in this message.

If the return code is 12, a GETMAIN failure has occurred. For more information, refer to *PSF for OS/390: Diagnosis*.

If the return code is 20, the module accessed is not in SYS1.LINKLIB or a library concatenated to a SYS1.LINKLIB (in LNKLSTxx PARMLIB member). Link-edit the module to SYS1.LINKLIB or to a concatenated library.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17.

APS002A INVALID REPLY — RE-SPECIFY.

Explanation: An invalid response was given to a previous load forms flash or to a thread-to-stacker message.

System Action: Processing stops until the operator responds to this message.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the correct reply. See message APS003A for the correct reply.

Problem Determination: None.

APS003A SETUP *jobname procstep jobstep ddname (nnnn)* O=*forms flash frame*, B={Y | N} F=*forms*—REPLY 'U' OR 'CANCEL'.

Explanation: (*nnnn*) is the three- or four-digit device number of the printer. The forms flash frame, identified by O= in this message, is the frame specified by the FORMS FLASH keyword on the JCL. B= indicates whether the BURST keyword on the JCL specified yes or no for the burster-trimmer-stacker feature. F= specifies the form used with the job. The setup must be consistent with the JCL specified for this print request.

This message identifies one or more of these parameters. If one of these parameters is not specified here, it was not specified on the JCL.

System Action: Processing stops until the operator responds to this message.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter one of the following replies, where *nn* is the number the system specified when issuing this message:

- *Rnn,U*. This reply returns a hexadecimal code verifying either that the requested setup has been completed, or that the setup commands are to be ignored if the setup cannot be completed.
- *Rnn,CANCEL*. This reply causes a subsystem output block (SSOB) return code of X'04' to be passed back to the data management open routine. Return code X'04' indicates that the print request is canceled.

Problem Determination: None.

APS004I *subsystem* SUBSYSTEM INITIALIZATION PARAMETER INVALID, 1 ASSUMED.

Explanation: The PSF Direct Printer Services Subsystem initialization parameter specified in the IEFSSNxx PARMLIB member is invalid. A parameter with more than 8 characters or non-numeric characters causes this message.

System Action: The PSF Direct Printer Services Subsystem continues to initialize.

User Response: No response is necessary.

System Programmer Response: Correct the initialization parameter specified in the IEFSSNxx PARMLIB member. For information about correcting the initialization parameter in the IEFSSNxx PARMLIB member, refer to *PSF for OS/390: Customization*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Item 1.

APS005I PSF INITIALIZATION FAILED, REASON CODE *rc*.

Explanation: PSF initialization failed, for the reason given in one of the following reason codes:

- 04** GETMAIN for DPSS control block failed.
- 08** SJFREQ FINDSWB failed.
- 0C** SJFREQ retrieve failed.
- 10** GETMAIN for SSXB failed.
- 14** APSAFSA attach failed.
- 18** PSF abended.
- 1C** Operator specified cancel in response to message APS003A.

System Action: The print job is not started or is discontinued at its current location.

User Response: No response is necessary.

System Programmer Response: If the problem is a GETMAIN failure, increase the REGION size parameter. If the problem is a SJFREQ failure, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center. If the problem is an attach failure, check to see that PSF is accessible to DPSS. For an operator cancel, no response is necessary.

Operator Response: For an operator cancel, have the user resubmit the print request, and do not cancel it.

Problem Determination: Items 1, 5, 9, 17.

APS006I PSF INITIALIZATION FAILED; MAXIMUM DIRECT ATTACH FSA'S EXCEEDED.

Explanation: PSF initialization failed because a request was made to attach more FSAs than the maximum specified in SYS1.PARMLIB.

System Action: The print job is not started.

User Response: No response is necessary.

System Programmer Response: Either raise the maximum FSA number in SYS1.PARMLIB, or have the user resubmit the job when Direct Attach is not at capacity.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None.

APS020I PRINTING TERMINATED BECAUSE RECOVERY IS INHIBITED.

Explanation: An exception occurred for which the normal PSF recovery is to resend pages to the printer which might have already printed. APSUX07 specified that this recovery should not be performed.

System Action: PSF terminates the current print job.

User Response: Resubmit the print job to reprint the incomplete portion of the print data, if needed.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 3, 8.

APS021I AN INVALID REQUEST FROM THE LOGICAL RECORD EXIT WAS DETECTED FOR LOGICAL RECORD *logical record*. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: An invalid request was returned by the logical record processing exit (APSUX04).

System Action: The original record is processed.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Verify that recent changes have not caused an error in the logical record processing exit.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 3, 17, 19, 26.

APS022I INCORRECT PSF INVOCATION.

Explanation: PSF was incorrectly started with an MVS START command entered from a system console.

System Action: PSF ends without establishing communication with the Job Entry Subsystem (JES).

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Use the appropriate JES command to start the device or writer. For the appropriate JES command, refer to the publication containing JES commands for your operating system.

Problem Determination: Items 1, 26.

APS023I FSA INITIALIZATION WAS TERMINATED BY PSF subcomponent.

Explanation: The PSF Functional Subsystem Application (FSA) initialization was terminated by the PSF subcomponent identified in this message. This is the only message issued by PSF when an operator enters a command, such as a JES2 \$P command, during initialization for an SNA-attached printer.

System Action: The device does not start.

User Response: No response is necessary.

System Programmer Response: To determine an appropriate response, see the specific console message issued by the PSF subcomponent that failed to initialize.

Operator Response: To determine an appropriate response, see the specific console message issued by the PSF subcomponent that failed to initialize.

Problem Determination: Items 1, 19, 26.

APS024I STOP FSA WITH ABEND REQUESTED.

Explanation: PSF received the functional subsystem interface (FSI) request to abend the functional subsystem application (FSA).

System Action: PSF abends the FSA.

User Response: No response is necessary.

System Programmer Response: Print the SVC dump. To interpret the dump, refer to *PSF for OS/390: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 19, 20, 26.

APS025I STOP FSS WITH ABEND REQUESTED.

Explanation: PSF received the functional subsystem interface (FSI) request to abend the functional subsystem (FSS).

System Action: PSF abends the PSF FSS address space.

User Response: No response is necessary.

System Programmer Response: Print the SVC dump. To interpret the dump, refer to *PSF for OS/390: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 19, 20, 26.

APS026I {HASPxxxx (JES2 message text) | IATxxxx (JES3 message text)}

Explanation: This message is a null message. It contains no text generated by PSF; it is simply a carrier for a JES2 message or a JES3 message. If the operator entered a Forward Space command, the data set may be terminated while forward spacing, in which case no termination messages are printed.

System Action: This message is only for information.

User Response: The printed output may be acceptable. If any pages were duplicated or skipped, you may want to resubmit the print request. If the error persists, consult your system programmer.

System Programmer Response: For more information, refer to the publication containing JES messages for your operating system.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None.

APS030I PRINT DATA SET DISPOSITION WAS NOT CHANGED AS REQUESTED BY PRERROR BECAUSE *reason*.

Explanation: The output data set was terminated due to an error, but the disposition of the data set was not changed for one of the following reasons:

- HONOR PRERROR IS NOT INITIALIZED. The PRINTDEV initialization statement for this printer does not specify PRERROR=HONOR.
- A PSF EXIT REQUESTED THE DATA SET BE HELD. PSF installation exit APSUX06 or APSUX07 specified that the data set should be held.
- MANDATORY PRINT LABELING IS IN EFFECT. The RACF (Resource Access Control Facility) class PSFMPL is active on the system.

System Action: The default disposition for the error is taken, or, if an exit requested it, the data set is held.

User Response: If honor PRERROR is not initialized, ask your system programmer to initialize it.

System Programmer Response: If users are to be allowed to set the error disposition, add PRERROR=HONOR on the PSF PRINTDEV statement for the printer.

Operator Response: No response is necessary.

Problem Determination: Items 2, 3, 12, 13.

APS031I AN I/O ERROR WAS DETECTED WHILE READING THE DATA SET FROM THE JES SPOOL. RESUBMIT THE JOB.

Explanation: An I/O error was detected while the data set was being read from the Job Entry Subsystem (JES) spool.

System Action: Processing of the data set ends.

User Response: Resubmit the print request.

System Programmer Response: To determine an appropriate action, see the JES I/O error message.

Operator Response: Request that the user resubmit the job.

Problem Determination: Items 1, 3, 19, 26.

APS032I A SPANNED RECORD LONGER THAN THE MAXIMUM ALLOWABLE RECORD LENGTH WAS DETECTED. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: PSF detected a Job Entry Subsystem (JES) record too long to process. The maximum length for a PSF record is 32768 bytes.

System Action: The partial record is processed, and processing for the current data set ends. The data set is queued and held.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Ensure that the maximum record length for JES does not exceed the maximum record length for PSF.

Operator Response: After the error has been corrected, release the data set. For the appropriate command to release the data set, refer to the publication containing JES commands for your operating system.

Problem Determination: Items 1, 3, 19, 26.

APS033I A NONSPANNED RECORD OR THE START OF ANOTHER SPANNED RECORD WAS DETECTED WHILE A SPANNED RECORD WAS BEING COMPOSED. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: While composing a spanned record, PSF detected the start of another spanned or nonspanned record. The error is caused by the Job Entry Subsystem (JES).

System Action: The partial record is processed, and processing for the current data set ends. The data set is queued and held.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: To determine an appropriate action, refer to the JES I/O error message.

Operator Response: After the error has been corrected, release the data set. For the appropriate command to release the data set, refer to the publication containing JES commands for your operating system.

Problem Determination: Items 1, 3, 19, 26.

APS034I THE END OF THE DATA SET WAS REACHED BEFORE THE END OF A SPANNED RECORD WAS FOUND. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: PSF reached the end of the data set without finding the end of a spanned record. The error is caused by the Job Entry Subsystem (JES).

System Action: The partial record is processed. The data set is queued and held.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: To determine an appropriate action, refer to the JES I/O error message.

Operator Response: After the error has been corrected, release the data set. For the appropriate command to release the data set, refer to the publication containing JES commands for your operating system.

Problem Determination: Items 1, 3, 19, 26.

APS035I THE FIRST SPANNED RECORD PROCESSED WAS NOT THE BEGINNING OF A SPANNED RECORD. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: The first spanned record in the data set is not the beginning of a spanned record.

System Action: The partial spanned record is processed. Processing of the current data set ends. The data set is queued and held.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: To determine an appropriate action, see the Job Entry Subsystem (JES) I/O error message.

Operator Response: After the error has been corrected, release the data set. For the appropriate command to release the data set, refer to the publication containing JES commands for your operating system.

Problem Determination: Items 1, 3, 19, 26.

APS036I END OF THE DATA SET WAS REACHED BEFORE A NONRESOURCE RECORD WAS FOUND.

Explanation: PSF reached the end of a data set before finding a nonresource record containing data rather than a resource. A nonresource record is a record from a line-data or MO:DCA data file.

System Action: Processing for the current data set is ended.

User Response: Ensure that the data set contains line-data records or MO:DCA data, and then resubmit the job.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 3, 19, 26.

APS037I RESTARTED DATA SET IS EMPTY.

Explanation: PSF attempted to restart a data set from a Job Entry Subsystem (JES) checkpoint, but the data set was empty.

System Action: Processing for the data set is ended.

User Response: Ensure that an empty data set is not presented as a print request.

System Programmer Response: No response is necessary.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3, 19, 26.

APS038I RESTART PROCESSING IS BEGINNING FOR THE ABEND REPORTED ABOVE.

Explanation: An abend has occurred that PSF considers a candidate for restart processing. The abend condition is described in the preceding APS050I message.

System Action: All active data sets are released, and PSF attempts to restart. PSF does not produce a dump unless the abend code was specified on the DUMP parameter of the PRINTDEV statement in the PSF startup procedure. If the restart is successful, message APS057I is issued, and PSF restarts by requesting a new data set from JES. If the restart is unsuccessful, PSF issues message APS053I and then terminates.

User Response: No response is necessary.

System Programmer Response: If the restart is successful, but the abend condition is frequently producing a restart, you can specify the abend reason

code on the DUMP parameter in the PSF startup procedure to generate a conditional dump. For more information about the DUMP parameter, refer to *PSF for OS/390: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 26, 27.

APS039I DUE TO AN I/O ERROR ON THIS DATA SET OR AN OPERATOR COMMAND, REPOSITIONING OR AN INTERRUPT FUNCTION MAY HAVE CAUSED PAGE *nnn* TO BE DUPLICATED.

Explanation: An I/O error occurred previously on this data set, or an operator command was entered at a time when insufficient information was available to reposition accurately. Repositioning was done, and either it was successful, or a page was duplicated.

Page *nnn* is a relative page number from the beginning of your data set. The relative page number includes header pages, message pages, and multiple transmissions of the data set.

System Action: Processing of the data set continues. This message was issued to the JES operator console and was appended to the message data set.

User Response: Examine your output for duplicate pages.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 25, 26, 27.

APS040I DATA SET RESTART PROCESSING WAS TERMINATED IN DIRECT-PRINTING MODE.

Explanation: PSF attempted to restart the current data set while the printer was directly attached. Restart processing is not supported when a printer is being used in direct-printing mode.

System Action: Processing for the current data set ends.

User Response: No response is necessary.

System Programmer Response: Examine the accompanying PSF messages, if any, to determine why PSF attempted to restart the data set.

Operator Response: Examine the accompanying PSF messages, if any, to determine why PSF attempted to restart the data set.

Problem Determination: Items 2, 3, 4a, 8, 9, 12.

APS041I STOP DEVICE WITH ABEND REQUESTED.

Explanation: PSF received the functional subsystem interface (FSI) request to abend the PSF Functional Subsystem Application (FSA).

System Action: PSF abends the FSA.

User Response: No response is necessary.

System Programmer Response: Print the SVC dump. To interpret the dump, refer to *PSF for OS/390: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 19, 20, 26.

APS042I SDUMP CREATED A PARTIAL DUMP.

Explanation: The PSF ESTAE routine received a return code of X'04' after returning from the system's SVC dump routine. This indicates that a partial dump was taken.

System Action: Abend processing continues.

User Response: No response is necessary.

System Programmer Response: Verify that the SYS1.DUMPnn data sets are large enough to accommodate the SVC dump. To interpret the return code, refer to *MVS/ESA System Programming Library: Application Development Macro Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 26.

APS043I DUMP WAS NOT TAKEN FOR STOP ORDER.

Explanation: A Stop Device functional subsystem interface (FSI) order with the dump option was received. PSF received a return code of X'08' from the system's SVC dump routine.

System Action: Device termination continues.

User Response: No response is necessary.

System Programmer Response: Verify that at least one SYS1.DUMPnn data set is available when PSF attempts to take a dump. To interpret the return code, refer to *MVS/ESA System Programming Library: Application Development Macro Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 19, 26.

APS044I SDUMP WAS UNSUCCESSFUL. REASON CODE=reason code.

Explanation: The PSF ESTAE routine received a return code of X'08' from the system's SVC dump routine. This indicates that an SVC dump was unsuccessful.

System Action: Abend processing continues.

User Response: No response is necessary.

System Programmer Response: If you receive reason code '0B'X, Dump Analysis Elimination (DAE) has suppressed the dump because a dump of the same nature had occurred earlier. Check SYS1.DAE data set for a symptom string matching the dump that was just taken.

If you receive reason code '05'X, verify that at least one SYS1.DUMPnn data set is available when PSF attempts to take a dump. To interpret the return code, refer to *MVS/ESA System Programming Library: Application Development Macro Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 26.

APS045I DEVICE device(address) COULD NOT BE ALLOCATED. DYNALLOC ERROR CODE = error code AND INFORMATION REASON CODE = reason code.

Explanation: PSF attempted to dynamically allocate the device with the address identified in this message. PSF failed for one of the following reasons:

- The device was already allocated (DYNALLOC error code = X'0214').
- The operator denied the device allocation (DYNALLOC error code = X'0484').
- The specified ddname was already allocated (DYNALLOC error code = X'0410').

System Action: The printer does not start.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Before starting the device or writer, verify that the device is not allocated to another address space. If the allocation was denied by the operator, ensure that the device or writer that requires this device is not started. To interpret the DYNALLOC error code, refer to *MVS/ESA System Programming Library: System Modifications Development Macro Reference*.

Problem Determination: Items 1, 19, 26.

APS046I THE SECOND | THIRD VALUE IN THE 'PARM=' FIELD OF THE 'EXEC' JCL STATEMENT IS INVALID. IT MUST BE 'valid values'. PROCESSING CONTINUES, USING VALUE 'INTR' | 'NOPROMPT'.

Explanation: The indicated values in the PARM field on the EXEC statement are not correct. The optional PARM information specifies: 1) external trace ddname, 2) trace option, or 3) operator interface options. *valid values* for the second PARM value are FULL, SYNC, or INTR. *valid values* for the third PARM value are PROMPT or NOPROMPT. The appropriate number of commas preceding a field must be present:

```
//stepname EXEC PGM = ..., PARM =  
(ddname,type,prompt,pagecount).
```

System Action: The procedure starts, using the indicated default parameter value as the external trace specification.

User Response: No response is necessary.

System Programmer Response: Correct the PARM information in the JCL. For more information, refer to *PSF for OS/390: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Item 1.

APS047I device (address) SMF TYPE 6 RECORD WAS NOT WRITTEN, RETURN CODE 'nn' WAS RECEIVED FROM SMFWTM MACRO.

Explanation: PSF attempted to write a Systems Management Facility (SMF) Type 6 record by use of the SMFWTM macro. The SMFWTM macro return code indicated that the SMF Type 6 record was not written.

System Action: If mandatory print labeling is active, PSF abends. Otherwise, processing continues.

User Response: No response is necessary.

System Programmer Response: To interpret the SMFWTM macro return codes, refer to the System Management Facility publication for your operating system.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Item 1.

APS048I THE FOURTH VALUE (PAGECOUNT) IN THE 'PARM =' FIELD OF THE 'EXEC' JCL STATEMENT IS INVALID. IT MUST BE AN INTEGER IN THE RANGE OF 1 TO 999. A VALUE OF nn WILL BE USED.

Explanation: The fourth value in the PARM field of the EXEC statement is not an integer in the range of 1 to 999. The correct format of the EXEC statement is as follows (all PARM fields are optional, but the appropriate number of commas must be present):

```
//stepname EXEC PGM = ..., PARM =  
(ddname,type,prompt,pagecount).
```

System Action: The actual value is specified in the message. The value used was 4 if the value specified was less than 1 or was not a decimal integer. A value of 999 was used if the value specified exceeded 999.

User Response: No response is necessary.

System Programmer Response: Correct the PARM information in the JCL. For more information, refer to *PSF for OS/390: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Item 1.

APS049I NO TIME-OF-DAY OR DATE VALUES WERE INSERTED IN THE SMF TYPE 6 RECORD.

Explanation: During the processing of the SMF Type 6 record, a nonzero return code was received when the time of day and the date were being established (SVC 11).

System Action: If mandatory print labeling is active, PSF abends. Otherwise processing continues, and the record is written without these values.

User Response: No response is necessary.

System Programmer Response: Determine the cause of the SVC 11 failure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Item 1.

APS050I SYSTEM COMPLETION CODE system completion code, PSF ABEND REASON CODE reason code, HAS BEEN DETECTED BY ESTAE name, ISSUED BY MODULE abending module name.

Explanation: The PSF ESTAE routine detected a PSF abend condition.

System Action: Depending on the error condition, PSF automatically restarts the printer, terminates processing for the printer, or terminates the PSF

address space. A subsequent message from PSF tells the operator which action was taken.

An ESTAE routine takes an SVC dump, unless a dump was provided by an earlier routine or the functional subsystem interface (FSI) requested that no dump be taken.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Examine the accompanying PSF message to determine the appropriate response.

To interpret system completion codes X'024', X'027', and X'0A6', see Chapter 2, System Completion Codes and PSF Abend Reason Codes of this publication.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3, 19, 20, 26.

APS051I PSF ABNORMAL TERMINATION.

Explanation: PSF detected an unrecoverable error while evaluating the abend condition. The ESTAE routine should have provided an SVC dump.

System Action: Abend processing continues.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Print the SVC dump provided by the ESTAE routine. To interpret the dump, refer to *PSF for OS/390: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3, 19, 20, 26.

APS052I MANDATORY PRINT LABELING IS NOT SUPPORTED BY JES.

Explanation: The installed version of the Job Entry Subsystem (JES) does not support mandatory print labeling.

System Action: The data set being processed at the time of the error was returned to the Job Entry Subsystem (JES) to place on the HOLD queue.

User Response: No response is necessary.

System Programmer Response: Install the correct release of JES if mandatory print labeling is required.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS053I ABEND RESTART PROCESSING HAS FAILED. ABEND PROCESSING FOR THE ORIGINAL ABEND WILL BEGIN.

Explanation: PSF was unable to restart following the abend reported in the previous APS050I message. The original abend is processed, and a dump is taken.

System Action: Abend processing continues.

User Response: No response is necessary.

System Programmer Response: Use the information provided in the APS050I message that reported the original abend to diagnose the problem.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 26, 27.

APS054I PSF HAS COMPLETED AN SDUMP.

Explanation: PSF successfully completed an SVC dump to a SYS1.DUMPnn data set.

System Action: Abend processing continues.

User Response: No response is necessary.

System Programmer Response: Print the SVC dump. To interpret the dump, refer to *PSF for OS/390: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None.

APS055I PSF ESTAE CANNOT EVALUATE SYSTEM COMPLETION CODE *system completion code* ISSUED BY MODULE *abending module name*. ABNORMAL TERMINATION PROCESSING WILL CONTINUE.

Explanation: The PSF ESTAE routine is unable to continue, for one of the following reasons:

- The abend reason code was not issued by PSF.
- The abend reason code was not stored in the function subsystem (FSB) control block.
- The FSB control-block address was incorrect.

System Action: Abend processing continues.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Print the SVC dump. The contents of register 15 at the time of the abend may contain the PSF abend reason code. If register 15 does not contain the information, the reason code was not recorded. To interpret the dump, refer to *PSF for OS/390: Diagnosis*. To interpret the system completion code, refer to the publication containing system messages for your operating system.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3, 20.

APS056I SYSTEM-DEFINED USER PRINTABLE AREA WAS REQUESTED ON A NONSECURE PRINTER.

Explanation: SYSAREA = YES was specified for a printer that does not support security functions. This JCL parameter was on the OUTPUT statement for the job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: If security page labeling is required, submit the print request to a printer that supports security functions. If security labeling is not required, change the OUTPUT JCL statement to remove the SYSAREA keyword.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 3.

APS057I ABEND RESTART PROCESSING HAS COMPLETED.

Explanation: PSF has successfully completed abend restart processing and will continue processing. A new job will be requested from JES.

System Action: Processing continues.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: The output from the data set that was printing when the abend occurred may need to be discarded, because the entire data set may be printed again after the restart. However, the data set that was printing when the abend occurred will not necessarily be the next one to print after PSF restarts.

Problem Determination: Items 1, 26, 27.

APS060I MANDATORY PRINT LABELING IS NOT AVAILABLE UNDER DIRECT-PRINTING MODE.

Explanation: Mandatory Print Labeling has been requested in direct-printing mode, but it is not allowed in that mode.

System Action: PSF issues message APS005I and then abends.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Deactivate class PSFMPL, using the Resource Access Control Facility (RACF). For information on how to do this, refer to the RACF publications.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS061I SYSTEM ACTION TAKEN: THE ERRORS LISTED PREVENTED PRINTING OF THE JOB. ALL DATA SETS IN THE JOB WILL BE HELD.

Explanation: While processing the job, PSF detected an error that makes printing the job in a secure environment impossible.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: No response is necessary.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: 1, 2, 3, 8, 17.

APS062I NODE *nodeid* IS INVALID—JOB=*jobname* STEP=*stepname* ID=*jobid* ON *system-id*.

Explanation: The print request identified in the message contained a node specified with the NOTIFY keyword that the system does not recognize as valid.

System Action: The print request was processed, but the node identified as invalid prevents the user from being notified that the processing of the print request has been completed.

User Response: Notify the individuals directly that processing of the print request has been completed. If the print request is to be resubmitted for printing, correct the invalid node ID.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS063I PRINT REQUEST COMPLETED—JOB=*jobname* STEP=*jobstep* ID=*jobid* AT *system-id*.

Explanation: Processing of the print request identified in the message has completed successfully. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request. When the

printer is connected to PSF by use of the Distributed Print Function (DPF) of PSF, this message indicates only that PSF has completed its processing of the print request. The final disposition of the print request is controlled by DPF.

System Action: PSF continues processing.

User Response: The printed output is available at the printer, unless the printer is connected to PSF by use of DPF.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS064I PRINT REQUEST CANCELED—
JOB=jobname STEP=jobstep ID=jobid AT
system-id.

Explanation: Processing of the print request identified in the message has been canceled. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request.

System Action: PSF continues processing with the next print request.

User Response: Examine the PSF messages in the printed output to determine why the print request was canceled.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS065I PRINT REQUEST INTERRUPTED—
JOB=jobname STEP=jobstep ID=jobid AT
system-id

Explanation: Processing of the print request identified in the message has been interrupted by the operator. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request.

System Action: The print request was returned to the Job Entry Subsystem (JES) and can be restarted by the operator.

User Response: Examine the PSF messages in the printed output to determine why the print request was interrupted, or consult your system operator.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS066I PRINT REQUEST UNSUCCESSFUL—
JOB=jobname STEP=jobstep ID=jobid AT
system-id.

Explanation: Processing of the print request identified in the message has completed unsuccessfully. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request.

System Action: See the accompanying messages for the system action that was taken.

User Response: Examine the PSF messages in the printed output to determine the cause of the error.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS067I PRINT REQUEST MARKED
UNPRINTABLE—JOB=jobname
STEP=jobstep ID=jobid AT *system-id.*

Explanation: PSF processing of the print request identified in the message has determined that the data set is not printable. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request.

System Action: The print request was returned to the Job Entry Subsystem (JES) to be placed on the HOLD queue with a PSF message ID.

User Response: Examine the PSF messages in the printed output to determine why the print request was unprintable.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS068I SUBMITTER *submitter-id* NOT
AUTHORIZED TO SEND PRINT STATUS
TO USERID=*user ID* ON *system-id.*

Explanation: The submitter of this print job has not been given authority to send the message to the user on the receiving system.

System Action: PSF continues processing the notify request.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Determine whether the user should be authorized to send the message (defined in the RACF SMESAGE class). If the user should be authorized, use RACF to give the user the needed authorization. For information on how to do this,

refer to *OS/390 Security Server (RACF) Security Administrator's Guide* for your operating system.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 29.

APS069I NOTIFY ERROR *decimal-code* **FOR USER**
user ID— JOB=jobname STEP=stepname
ID=jobid AT system-id.

Explanation: A notify request was unsuccessful; the decimal code indicates the cause of the failure.

Decimal Code Explanation

- 04** PSF logic error. Message truncated.
- 08** Exit canceled notify request. A system installation exit (not a PSF exit) has canceled the notify request. Inform your system programmer that this error occurred.
- 12** PSF logic error. No user ID specified.
- 20** PSF logic error. Invalid notify extension ID.
- 24** PSF logic error. Invalid notify version.
- 28** No storage for request. The Job Entry Subsystem (JES) cannot obtain enough storage in subpool 231 to satisfy the request. The system programmer must determine why insufficient storage is available.
- 36** PSF logic error. Error in message specification.

System Action: PSF continues processing the notify request.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: For codes "08" and "28", see the explanation for the code. For all other codes, follow the procedures described in *PSF for OS/390: Diagnosis* before consulting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 29.

APS070I NOTIFY ERROR *decimal-code* **FOR USER**
user ID— JOB=jobname STEP=stepname
ID=jobid AT system-id.

Explanation: A notify request was unsuccessful; the decimal code indicates the cause of the failure.

Decimal Code Explanation

- 12** PSF logic error. No notify extension found.

System Action: PSF continues processing the notify request.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Follow the procedures described in *PSF for OS/390: Diagnosis* before consulting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Item 29.

APS071I NOTIFY ERROR *decimal-code* **FOR USER**
user ID— JOB=jobname STEP=stepname
ID=jobid AT system-id.

Explanation: A notify request was unsuccessful; the decimal code indicates the cause of the failure.

Decimal Code Explanation

- 04** PSF logic error. Subsystem does not support this function.
- 08** Subsystem exists, but is not up. Restart the Job Entry Subsystem (JES).
- 12** PSF logic error. Subsystem does not exist.
- 16** Function not completed; disastrous error. Determine cause of error from dump.
- 20** PSF logic error. Logical error (invalid subsystem option block [SSOB] format, incorrect length, or some other logical error).

System Action: PSF continues processing the notify request.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: For codes "08" and "16", see the explanation for the code. For all other codes, follow the procedures described in *PSF for OS/390: Diagnosis* before consulting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 29.

APS072I CONSULT YOUR SYSTEM PROGRAMMER FOR ASSISTANCE.

Explanation: Resolving the error described by the preceding message requires the assistance of your system programmer.

System Action: PSF continues processing the notify request.

User Response: Consult your system programmer for assistance. Inform your system programmer that this error occurred.

System Programmer Response: See the error codes in the preceding message.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 3.

APS073I THE CHECKPOINT AREA FOR THE DATA SET THAT WAS TO RESTART FROM A CHECKPOINT DID NOT CONTAIN THE REQUIRED CONDITIONAL PROCESSING INFORMATION.

Explanation: The conditional processing information that is used in printing this data set was too large to fit into the checkpoint record that PSF had previously written to JES. This can happen when the page definition specifies CONDITION commands by use of the WHEN CHANGE parameter, which causes large amounts of data to be tested. If too many of the WHEN CHANGE type of conditions are specified, the checkpoint record becomes too large to write to JES. PSF must then write the checkpoint record to JES without any of the conditional processing information.

Because this data set needs the conditional processing information in order to restart from a checkpoint, but the JES checkpoint record given back to PSF does not contain this information, PSF must restart this data set from the beginning. This allows the conditional processing information to be rebuilt, and the data set prints correctly.

System Action: PSF issues this message to the operator console and the message data set, and continues processing from the beginning of the data set.

User Response: Examine your output for duplicate pages.

System Programmer Response: No response is necessary.

Operator Response: If you know which page the printing should restart on, issue a forward space command.

Problem Determination: None.

APS074I AN INTERRUPT MESSAGE PAGE WOULD HAVE BEEN GENERATED BUT INSTALLATION EXIT APSUX07 HAS SUPPRESSED IT.

Explanation: The interrupt message page that PSF inserts in your printed output was suppressed because APSUX07 was written to suppress it.

System Action: Processing continues without the interrupt message page being printed.

User Response: If you feel that this message has been issued incorrectly, ask your system programmer to check the target device and APSUX07 for correctness.

System Programmer Response: Ensure that the target device is appropriate. For microfilm devices,

interrupt message pages are suppressed regardless of what functions were requested in APSUX07.

For non-microfilm devices, ensure that XTP7IPSU is set correctly by APSUX07.

Operator Response: No response is necessary.

Problem Determination: Items 1, 3.

APS075I UNABLE TO ALLOCATE STORAGE FOR MESSAGE DATASET REDIRECTION.

Explanation: Virtual storage could not be acquired above the line for all required message data set redirection control blocks.

System Action: The user data set completed printing, but the associated message data set was lost. The data set was released as incomplete for future reprinting. The FSA printing the data set was terminated with abend reason code 335.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Increase the REGION parameter on the procedure used to start PSF.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 20.

APS076I DYNAMIC ALLOCATION FUNCTION FOR THE SYSOUT MESSAGE DATASET WAS UNSUCCESSFUL—RETURN CODE xxxx, REASON CODE xxxx.

Explanation: An unsuccessful attempt was made to use an SVC 99 instruction to perform the dynamic allocation of the redirected message data set.

System Action: The user data set completed printing, but the associated message data set was lost. The data set was released as incomplete for future reprinting. The FSA printing the data set was terminated with abend reason code 335.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Use the return code and reason code to determine the cause of the error and an appropriate response. For information on the SVC 99 return and reason codes, refer to *MVS/ESA System Programming Library: Application Development Macro Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 4, 9, 17, 20.

APS077I OPENING OF THE SYSOUT MESSAGE DATASET WAS UNSUCCESSFUL.

Explanation: An OPEN macro, which results in an SVC 19, was issued to open the redirected message data set for output. After returning from the OPEN macro, PSF discovered that the data control block (DCB) had not been opened.

System Action: The user data set completed printing, but the associated message data set was lost. The data set was released as incomplete for future reprinting. The FSA printing the data set was terminated with abend reason code 335.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: See the additional console messages associated with this error.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 4, 9, 17, 20.

APS078I CLOSING OF THE SYSOUT MESSAGE DATASET WAS UNSUCCESSFUL.

Explanation: A CLOSE macro, which results in an SVC 20, was issued to close the redirected message data set. After returning from the CLOSE macro, PSF discovered that the data control block (DCB) had not been closed.

System Action: The user data set completed printing, but the associated message data set was lost. The data set was released as incomplete for future reprinting. The FSA printing the data set was terminated with abend reason code 335.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: See the additional console messages associated with this error.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 4, 9, 17, 20.

APS079I MESSAGE DATASET REDIRECTION WAS REQUESTED BUT ALL REQUIRED PREREQUISITES WERE NOT MET. THE REQUEST WAS SUPPRESSED.

Explanation: Message data set redirection was requested by specifying PIMSG=NO on the OUTPUT statement for the message data set in the writer procedure, but one of the following occurred:

- The operating system does not support the functions required for message data set redirection.

or

- Message data set redirection was requested while using direct-printing mode.

System Action: The request for message data redirection was ignored. Any error messages were printed with the associated user data set.

User Response: No response is necessary.

System Programmer Response: Either correct the problem described by the Explanation section, or do not request message data set redirection (do not specify PIMSG on the message data set OUTPUT statement in the writer procedure or specify PIMSG=YES).

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 9, 17, 27.

APS080I INHIBIT RECOVERY WAS IGNORED BECAUSE IT WAS NOT SPECIFIED FOR THE FIRST DATA SET OF THE JOB.

Explanation: XTP7IHIB was set to off for the first data set of the job, but APSUX07 set it on for a subsequent step of the job. PSF must perform the same level of recovery for the entire job.

System Action: Recovery is allowed for the entire job.

User Response: Notify your system programmer.

System Programmer Response: Change exit APSUX07 so that it sets XTP7IHIB the same way for each data set of a job.

Operator Response: No response is necessary.

Problem Determination: Items 2, 3, 8.

APS081I RECOVERY IS INHIBITED BECAUSE IT WAS SPECIFIED FOR THE FIRST DATA SET OF THE JOB.

Explanation: PSF exit APSUX07 set XTP7IHIB to on for the first data set of the job but not for a subsequent step of the job. PSF must perform the same level of recovery for the entire job.

System Action: Recovery is inhibited for the entire job.

User Response: Notify your system programmer.

System Programmer Response: Change exit APSUX07 so that it sets XTP7IHIB the same way for each data set of a job.

Operator Response: No response is necessary.

Problem Determination: Items 2, 3, 8.

APS095I INSTALLATION EXIT APSUX15 WILL NOT BE INVOKED.

Explanation: The initialization of the Download for OS/390 exit routine failed because insufficient length was specified in the APSUCOM table, the APSUCOM module could not be located, or a BLDL macro failed. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Processing continues without the installation exit.

User Response: No response is necessary.

System Programmer Response: Evaluate any changes made to the APSUCOM module (static table), to the exit routine, or to the methods used to establish the tables or routines in the system. Other messages may contain BLDL macro return and reason codes.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS100I SYSTEM ACTION TAKEN: PRINTING OF THE CURRENT PAGE (*current page*) WAS STOPPED BECAUSE OF THE ERRORS LISTED. IF PSF WAS UNABLE TO PRINT THIS PAGE, SUBSEQUENT REPOSITIONING MAY BE INACCURATE.

Explanation: An error was encountered that prevents further processing of the current page. Other error messages issued by PSF describe the precise error condition and give additional information about the processing environment in which the error occurred.

System Action: Printing of the current page ends. If the error occurred on the front side of a duplex sheet, and the front side was skipped, data belonging on the back side of the page may be printed on the front of the sheet.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 17.

APS101I SYSTEM ACTION TAKEN: THE ERRORS LISTED PREVENTED PRINTING OF THE *document type* FOR JOB *print request*, STEP *step*, OUTGROUP *outgroup*.

Explanation: An error that was encountered prevents further printing of the current document that is part of the *outgroup* and *step* for the print request identified in this message.

If a series of asterisks (*****) prints in any of these identifying fields, the system could not provide the information for that field.

Previous error messages describe the precise error condition and give additional information about the processing environment in which the error occurred.

If *document type* is DATA SET, this message is the last in a series of messages describing the errors that stopped the printing of a user document. If *document type* is MESSAGES, this message is the last in a series at the operator's console. MESSAGES indicates that errors prevented the system from printing the error messages that were generated while the user document was being processed. If *document type* is JOB HEADER, DATA SET HEADER, or JOB TRAILER, this console message indicates that errors occurred during deferred printing of the indicated separator pages.

System Action: Processing of the indicated document stops. PSF attempts to print any data accumulated for the current page. If the error is in a job header or a data set header, PSF tries to print the associated user document.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 17.

APS102I AN END OF FILE WAS FOUND BEFORE THE LOGICAL END OF A RESOURCE, OR THE RESOURCE CONTAINED NO DATA. THE MEMBER NAME OF THE RESOURCE IS *member name*.

Explanation: One of the following occurs:

- The end of file for a resource was found before the End-type structured field, with the result that the resource definition is incomplete.

- The resource existed as a member of a partitioned data set, but no data was found in the member.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page.

PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the resource, correct the error and resubmit the print request. If you created the empty partitioned member for the resource, correct the error by creating a resource that contains the structured fields for the resource type you want, and resubmit the print request. For more information about the structured fields, refer to *Mixed Object Document Content Architecture Reference*.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 15c, 17, 19.

APS1031 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: *structured field name1* STRUCTURED FIELD WAS FOUND WHERE *structured field name2* STRUCTURED FIELD WAS EXPECTED.

Explanation: *Structured field name1* is incorrect at the present point in the input data stream or resource. The structured field type expected at this point is *structured field name2*. Either the required structured field is missing or out of sequence, or a line-data record is in the wrong place.

Subsequent error messages give additional information about the processing environment in which the error occurred.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page.

PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the

end of the current page, PSF stops printing the data set. If the error is a result of incorrect structured fields within an inline page definition or form definition, PSF stops printing the data set.

PSF issues a message that identifies the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information on the correct format of the referenced structured field. If the structured fields are in the correct order, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS1041 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: *structured field* STRUCTURED FIELD IS NOT ALLOWED OR FORMS AN INVALID SEQUENCE.

Explanation: The structured field identified in this message is either out of sequence or invalid in an object. The record may be line data. If inline resources are used with data set header pages, multiple resource groups may be present.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page.

PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If the error is a result of incorrect structured fields within an inline resource, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource.

PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information on the correct format of the referenced structured field. If the structured fields are in the correct order, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS105I THE ERROR REPORTED ABOVE OCCURRED IN LOGICAL RECORD NUMBER *record number*, WHOSE SEQUENCE NUMBER IS *sequence number*.

Explanation: This message is given in addition to the message that describes the error. It identifies the specific invalid input record. The object (if any) that contains the invalid record is identified in either message APS108I or message APS109I, which is given after this message.

The record number specified is relative to the user data stream and is different for multiple transmissions of the data set. However, the record number may be inaccurate if the data set is using a page definition that performs conditional processing.

The sequence number may print as NOT AVAILABLE in the message. For example, a line-data record does not have a sequence number.

System Action: The printing disposition depends upon the error described in the accompanying messages.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 17.

APS106I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: NAME '*token name*' IN *Begin-type structured field* DOES NOT MATCH NAME '*token name*' IN *End-type structured field*.

Explanation: The Token Name parameters in the Begin-type and End-type structured fields identified in this message do not correlate. The structured fields may be out of sequence in the input data stream.

When token names are specified, the Token Name parameters in the associated Begin-type and End-type structured fields must correlate.

System Action: Processing continues, and PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS107I THE ERROR REPORTED ABOVE OCCURRED ON PAGE *page number* OF TRANSMISSION *transmission number*.

Explanation: This message is issued in addition to a message that describes an error that occurred during the processing of a page or data relating to a page.

This message identifies the page containing the error by indicating the number of that page in the transmission. The number is not taken from any data that might be on the input page.

System Action: The printing disposition depends on the error described in the accompanying messages.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 17.

APS108I THE ERROR REPORTED ABOVE WAS DETECTED WITHIN OBJECT TYPE *object type* WITH TOKEN NAME *token name*.

Explanation: This message is issued in addition to the message that describes the error. The objects that were being processed are listed, to identify the location of the error in the input data stream or in a resource.

System Action: The printing disposition depends on the error described in the accompanying messages.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 15, 17.

APS109I THE ERROR REPORTED ABOVE WAS CAUSED BY THE RESOURCE *resource name* IN AN EXTERNAL LIBRARY OR AN INLINE RESOURCE.

Explanation: This message is issued in addition to the message that describes the error. The object identified in the accompanying message was either a resource being processed from an external library or an inline resource. The previous error message, APS108I, identified the member as a page definition, a form definition, a font, a code page, a font character set, a page segment, or an overlay. The combined information from these two messages can be used to identify the library defined to PSF on the PRINTDEV statement if appropriate. In the event of an inline form definition or page definition, the resource is not a member of an external library, but it is included at the beginning of the user's data set.

System Action: The printing disposition depends on the error described in the accompanying messages.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 15, 17.

APS110I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE LENGTH SPECIFIED IN THE SELF-DEFINING PARAMETER OR TRIPLET *identifier* OF THE *structured field* STRUCTURED FIELD IS INCORRECT.

Explanation: Insufficient data was present in the structured field for the length given in the self-defining parameter or triplet. The structured field can be in a bar code object, a graphics object, an image object, or an object container resource. The bar code object may be in an overlay or in a MO:DCA print data set, or it may be imbedded in a data set containing line data. The graphics object may be in a MO:DCA print data set or an overlay, or it may be imbedded in a data set containing line data. The image object may be in a MO:DCA print data set, an overlay, or a page segment, or it may be imbedded in a data set containing line data. If the self-defining parameter or triplet ID is 0, the length of the self-defining parameter or triplet may have been 0 or 1, which means that no ID was available for use in this message.

System Action: If the error occurred in a structured field in a page, PSF attempts to find the end of the page. If PSF can find the end of the page, it prints any data accumulated for the current page. If PSF cannot find the end of the page, the data set is terminated. If the error occurred in a form definition, a page definition, or a non-presentation object container resource (for example, COMSETUP), the form definition, page definition, or non-presentation object container resource is not used, and one of the following occurs:

- PSF will not be started for any of the following:
 - The default form definition
 - A form definition specified for printing messages or separator pages
 - A page definition specified for printing messages or separator pages
- PSF cannot begin printing the data set for a form definition or non-presentation object container resource (or page definition if printing line data) specified on a user's JCL OUTPUT statement; PSF tries to print the next data set.

PSF issues a message identifying the position of the structured field in the data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the object, correct the error and resubmit the print request. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS1111 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE REQUESTED CHARACTER ROTATION IS NOT AVAILABLE IN THE CURRENT FONT.

Explanation: The Font Orientation (FNO) structured field does not include a repeating group for the requested character rotation. The FNO structured field is contained in the font character set. The font, its character rotation, and its print direction were specified in the Map Coded font (MCF) structured field in the MO:DCA data, overlay, or page definition. If the font being used was specified by use of a JCL CHARS or UCS keyword, then PSF constructed the MCF structured field.

System Action: PSF cannot print the current page, but it attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User Response: Ensure that the correct font was specified. If it was, and if you used a program to create the MCF structured field, consult your system programmer. If the correct font was specified, and if while creating the MCF structured field you used bytes 28 and 29 to identify the character rotation for the font, ensure that the values in these bytes identify an available character rotation in the requested font.

If the correct font was specified, and if you created the structured fields for the font, ensure that an FNO repeating group is available for the desired character rotation, and resubmit the print request.

If the correct font was specified, and if you used a program to create the structured fields for the font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS112I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: RECORD CONTAINS NO DATA, EVEN THOUGH AT LEAST A CONTROL CHARACTER IS EXPECTED.

Explanation: PSF read an input record without a control character following the record descriptor word (RDW). A minimum of 1 byte of control-character data is needed to make the record valid.

System Action: PSF prints any data accumulated for the page, and then stops printing the current data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. For more information about the construction and placement of RDWs, refer to *DFSMS/MVS Using Data Sets*.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS113I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: STRUCTURED FIELD LENGTH IS LESS THAN THE INTRODUCER LENGTH.

Explanation: A structured field must have at least 8 bytes of data, the minimum length necessary for a structured field introducer. The Extension Indicator flag in the structured field introducer indicates whether the minimum length of the structured field can be greater than 8 bytes.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS114I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: RDW LENGTH DOES NOT AGREE WITH LENGTH IN STRUCTURED FIELD INTRODUCER.

Explanation: Every structured field is preceded by a record descriptor word (RDW) that specifies the length of that record, including the RDW. The record length in the RDW for the current record is less than the sum of the Length parameter in the structured field introducer and the number of bytes for both the RDW (4 bytes) and the control character (1 byte).

System Action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource.

PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or resource, ensure that the RDW for the invalid structured field contains a valid record length, and resubmit the print request. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS115I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: STRUCTURED FIELD INTRODUCER FLAG BITS ARE NOT ACCEPTABLE.

Explanation: Bits 1–3 or 5–7 in the structured field introducer Flag Byte parameter are not all 0's.

System Action: PSF stops processing the current page and prints any data accumulated for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input record or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance

in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS116I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: PADDING LENGTH OR EXTENSION LENGTH IS INCORRECT FOR STRUCTURED FIELD.

Explanation: The length of padding and/or extension specified in the Length or Extension parameter in the structured field introducer indicates more data than was found in the structured field.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input record or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or resource, ensure that the Extension Indicator flag is set correctly and that the Length parameter in the structured field introducer specifies the actual length of padding for the invalid structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field introducer. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS117I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: LENGTH INDICATED IN THE STRUCTURED FIELD INTRODUCER IS INCORRECT FOR structured field name STRUCTURED FIELD.

Explanation: The length indicated by the structured field introducer specifies an invalid number of bytes for the structured field identified in this message. This error is caused by one of the following:

- The Extension or Padding Indicator flags in the structured field introducer are set incorrectly.
- One or more of the parameters in the invalid structured field contain too many bytes of data.

In some cases the length of a structured field is specified in a parameter that is in another structured field. For example, the length of Fixed Data Text (FDX) structured fields is specified in the Size parameter of the Fixed Data Size (FDS) structured field.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or resource, ensure that the Length parameter in the structured field introducer specifies a valid length for the structured field. Also ensure that the number of bytes in the structured field parameter matches the length specified in the structured field introducer. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field introducer.

If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS118I UNSUPPORTED STRUCTURED FIELD structured field code WAS IGNORED, AND, IF IT BEGAN AN OBJECT, THE OBJECT WAS IGNORED. THE PRINTED OUTPUT MAY BE ACCEPTABLE.

Explanation: The Identifier parameter in the structured field introducer for the invalid structured field specified a structured field code that was not recognized as a valid structured field code.

System Action: If the structured field began an object, the object was ignored. Otherwise, only the structured field was ignored, and processing of the rest of the data set continues as usual.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If the printed output was unacceptable and you created the structured fields for the print data set or resource, give the invalid structured field a code that is valid for its structured field type. Refer to *Mixed Object Document Content Architecture Reference* for a list of valid structured field types.

If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured field for the print data set or resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS120I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: *structured field name1* STRUCTURED FIELD CONTAINS AN INCORRECT VALUE FOR THE SIZE OF THE *structured field name2* REPEATING GROUP.

Explanation: *Structured field name1* specifies the length of each repeating group found in *structured field name2*. Either the value specified in *structured field name1* for the size of the repeating group is too small, or the actual length of the repeating-group data is not a multiple of the size specified.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS121I FORMDEF KEYWORD MUST BE SPECIFIED ON THE JCL OUTPUT STATEMENT IN ORDER TO PRINT THIS DATA SET. DETERMINE THE PERMISSIBLE VALUES USED IN YOUR INSTALLATION FOR THE FORMDEF KEYWORD.

Explanation: This data set cannot be printed without an active form definition. No FORMDEF keyword was provided on the JCL OUTPUT statement for this job, and no default form definition was defined in the PSF initialization procedure.

System Action: PSF cannot print the current data set. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: To specify a form definition, do one of the following:

- Code the FORMDEF keyword on the OUTPUT JCL statement. For information on how to code the OUTPUT statement, refer to *PSF for OS/390: User's Guide*.
- Request that your system programmer code a default form definition name in the PSF initialization procedure.

System Programmer Response: Specify a default form definition on the JCL PRINTDEV statement in the procedure used to start PSF. For information on how to code the PRINTDEV statement, refer to *PSF for OS/390: Customization*.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 19.

APS122I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: THE PATTERN-TECHNOLOGY VALUE IN THE FNC STRUCTURED FIELD IS INCORRECT.

Explanation: The pattern-technology value in Byte 1 of the Font Control (FNC) structured field is not valid. The FNC structured field is contained in the font character set.

System Action: PSF cannot print the current page, but it attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS123I GROUP LEVEL MEDIUM FINISHING REQUESTED BUT THE PRINTER DOES NOT SUPPORT GROUP LEVEL MEDIUM FINISHING. THE PROCESSING OF THE DATA SET CONTINUES WITHOUT GROUP LEVEL MEDIUM FINISHING.

Explanation: A document environment group in the current form definition contains a Medium Finishing Control (MFC) structured field but the printer does not support group level MFCs.

System Action: The MFC is ignored and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the

source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS125I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: THE BASELINE EXTENT VALUE IN THE FNO STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Baseline Extent parameter in the Font Orientation (FNO) structured field does not contain a value in the correct range. The FNO structured field is contained in the font character set.

System Action: PSF stops processing the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS126I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: THE COMPRESSION ALGORITHM PARAMETER IN THE FNC STRUCTURED FIELD CONTAINS AN UNACCEPTABLE VALUE.

Explanation: The Compression Algorithm Identifier was specified incorrectly in the Font Control (FNC) structured field. The FNC structured field is in the font character set.

System Action: PSF stops processing the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS127I MISMATCH BETWEEN CODE-PAGE AND FONT-CHARACTER-SET RESOURCES: CPC STRUCTURED FIELD SPECIFIED A DEFAULT GRAPHIC CHARACTER 'default graphic character name' WHICH WAS NOT FOUND IN THE FNI STRUCTURED FIELD.

Explanation: The value in the Default Graphic Character Name parameter in the Code Page Control

(CPC) structured field does not match any of the values of the Graphic Character Identifier parameters in the repeating groups of the associated Font Index (FNI) structured field. The CPC structured field is in the code page. The FNI structured field is contained in the font character set.

The repeating groups in the FNI structured field should be sorted in ascending numeric order. This error may be caused by incorrect sorting of the repeating groups.

System Action: PSF stops processing the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS128I SHEET LEVEL MEDIUM FINISHING REQUESTED BUT THE PRINTER DOES NOT SUPPORT SHEET LEVEL MEDIUM FINISHING. THE PROCESSING OF THE DATA SET CONTINUES WITHOUT SHEET LEVEL MEDIUM FINISHING.

Explanation: A medium map in the current form definition contains a Medium Finishing Control (MFC) structured field but the printer does not support sheet level MFCs.

System Action: The MFC is ignored and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS129I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: THE FLAG BYTE VALUE IN THE FNC STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Flag byte in the Font Control (FNC) structured field contains invalid data. For the 3800 printer, the invalid value could be in the Kerning flag or in the Uniform Character Box Size flag. For the other printers, the invalid value is in the Uniform Character Box Size flag. The FNC structured field is contained in the font character set.

System Action: PSF stops processing the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured

field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS130I DATA IN AN INPUT RECORD IS INVALID: structured field name STRUCTURED FIELD IS NOT ACCEPTABLE AT THE START OF A DATA STREAM.

Explanation: The structured field type identified in this message is not valid at the start of the data stream. Subsequent error messages give additional information about the processing environment in which the error occurred.

System Action: PSF cannot print the current data set.

User Response: If you created the structured fields for the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 17, 19.

APS131I THE SEPARATOR PAGE EXIT GENERATED AN ERROR: *structured field type* IS NOT ACCEPTABLE AT THE START OF *separator page type* SEPARATOR PAGE. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: The first structured field of the separator-page type identified in this message is neither a valid structured field type nor a line-data record. Line data is valid in this position. Any of the structured field types that can begin a document is also valid.

System Action: The page is not printed.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Refer to *Mixed Object Document Content Architecture Reference* to construct one of the structured fields that can begin a document and to determine the correct sequence of structured fields within a data set or resource.

Correct the process used to create the separator page that contains the error, and replace the exit before resubmitting print requests.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 2, 3, 17, 19.

APS132I DATA IN AN INPUT RECORD IS INVALID: *structured field name* STRUCTURED FIELD FOLLOWING BTM OR BDH STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The structured field that begins a transmission is neither an acceptable structured field type nor a line-data record. Subsequent error messages give additional information about the processing environment in which the error occurred. If inline resources are used, multiple resource groups may be present.

System Action: PSF stops printing the current data set.

User Response: If you created the structured fields for the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the

source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 17, 19.

APS135I DATA IN A FORMDEF RESOURCE IS INVALID: DUPLICATE OVERLAY LOCAL IDENTIFIER WAS FOUND IN THE *structured field* STRUCTURED FIELD.

Explanation: The same local identifier was found assigned to more than one Overlay Local Identifier parameter in the Map Medium Overlay (MMO) or Map Page Overlay (MPO) structured field repeating groups. The MMO structured field is in the form definition. The MPO is in the page definition or the print data set.

System Action: If the error is in a resource, the resource is not used, and one of the following occurs:

- If the error is in default form definition, or a form definition specified for printing messages or separator pages, PSF will not be started.
- If the error is in the default page definition, or a page definition specified for printing messages or separator pages, PSF will not be started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.
- If the error is in a page definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

If the error is in the print data set, PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create

the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS1381 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: OVERLAY LOCAL IDENTIFIER VALUE IS NOT ACCEPTABLE IN THE *structured field* STRUCTURED FIELD.

Explanation: An invalid Overlay Local Identifier was encountered in one of the structured field repeating groups: Map Medium Overlay (MMO), Map Page Overlay (MPO), or Medium Modification Control (MMC). The MMO and MMC structured fields are in the form definition. The MPO is in the page definition or the print data set.

System Action: If the error is in a resource, the resource is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

If the error is in the print data set, PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured

field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS1391 DATA IN A FORMDEF RESOURCE IS INVALID: SUPPRESSION LOCAL IDENTIFIER VALUE IS NOT ACCEPTABLE IN THE MSU STRUCTURED FIELD.

Explanation: The Suppression Local Identifier parameter in the Map Suppression (MSU) structured field is invalid. The MSU structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the

form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS140I DATA IN A FORMDEF RESOURCE IS INVALID: TWO structured fields STRUCTURED FIELDS ARE DEFINED WITH THE SAME IDENTIFIER, identifier.

Explanation: Two Medium Modification Control (MMC) or two Page Modification Control (PMC) structured fields in a single form environment group have the same value in their Identifier parameters. The MMC and PMC structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information

provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS141I DATA IN A FORMDEF RESOURCE IS INVALID: MEDIUM SUPPRESSION TOKEN NAME IS REPEATED IN MSU STRUCTURED FIELD.

Explanation: The Token Name parameters in two repeating groups in a Map Suppression (MSU) structured field have the same value. The MSU structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS143I DATA IN A FORMDEF RESOURCE IS INVALID: COPY SPECIFICATIONS IN THE MCC STRUCTURED FIELD ARE NOT ACCEPTABLE.

Explanation: Either the Starting and Stopping Copy Numbers contain a gap or an overlap, or the maximum number of copies for one set of modifications has been exceeded. The Copy Number parameters are specified in the Medium Copy Count (MCC) structured field. The MCC structured field is contained in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, ensure that the Starting Copy Number and the Stopping Copy Number parameters in a repeating group in an MCC structured field have valid values that correlate. Also, verify that fewer than 255 copies have been requested. If 255 or more copies with the same modifications are needed, define two or more MCC structured fields. For more information on the MCC structured field, refer to *Mixed Object Document Content Architecture Reference*. If the MCC has no errors, the error may be a PSF logic error.

If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS145I DATA IN A FORMDEF RESOURCE IS INVALID: THE FORMS-FLASH VALUE IN MMC STRUCTURED FIELD, ID *identifier*, IS NOT ACCEPTABLE.

Explanation: The Medium Modification Control (MMC) structured field contains an invalid value for the repeating group that contains forms-flash modification. The MMC structured field is contained in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS146I DATA IN A FORMDEF RESOURCE IS INVALID: MORE THAN 8 OVERLAYS ARE SPECIFIED IN MMC STRUCTURED FIELD, ID *identifier*.

Explanation: In a Medium Modification Control (MMC) structured field, the maximum number of overlays allowed in one set of modifications has been exceeded. The MMC structured field is contained in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS147I DATA IN A FORMDEF RESOURCE IS INVALID: MORE THAN 8 SUPPRESSIONS ARE SPECIFIED IN MMC STRUCTURED FIELD, ID *identifier*.

Explanation: In a Medium Modification Control (MMC) structured field, the maximum number of suppressions allowed in one set of modifications has been exceeded. The MMC structured field is contained in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS152I DATA IN A FORMDEF RESOURCE IS INVALID: MMC STRUCTURED FIELD WAS NOT FOUND TO COMPARE WITH IDENTIFIER *identifier value* IN MCC STRUCTURED FIELD.

Explanation: The Medium Modification Control Identifier parameter in the Medium Copy Count (MCC) structured field contains a value that did not match the Medium Modification Control Identifier parameter in any Medium Modification Control (MMC) structured field in the form environment group. The MCC and MMC structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MCC and MMC have no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS154I DATA IN A FORMDEF RESOURCE IS INVALID: OVERLAY LOCAL IDENTIFIER IN MMC STRUCTURED FIELD, ID *identifier*, WAS NOT FOUND IN MMO STRUCTURED FIELD.

Explanation: The overlay modification in the Medium Modification Control (MMC) structured field was not present in the Map Medium Overlay (MMO). The MMC and MMO structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS155I DATA IN A FORMDEF RESOURCE IS INVALID: TOO MANY COPY CONTROLS WERE SPECIFIED FOR THE CURRENT FORM ENVIRONMENT GROUP.

Explanation: For a given physical page, up to 256 bytes of data can be specified for the printer command that describes the copies and modifications to be made. The current form environment group causes the data for the command to exceed 256 bytes. PSF builds the printer command from data in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

User Response: If you created the structured fields for the form definition, either reduce the number of copy groups in the Medium Copy Count (MCC) structured field or reduce the number of modifications specified in the Medium Modification Control (MMC) structured field. Otherwise, split these functions between two or more form environment groups in two or more medium maps. Then include in your input two or more copies of the same page which are identical except that for each of them you select an appropriate code page by use of an Invoke Medium Map (IMM) structured field. For more information about the MMC and MMO structured fields, refer to *Mixed Object Document Content Architecture Reference*.

If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS156I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: NULL NAME IS NOT ACCEPTABLE IN *structured field name* STRUCTURED FIELD.

Explanation: Every Begin-type and End-type structured field can include an 8-byte token name. A null token name is not allowed for the listed structured field.

System Action: PSF stops processing the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS157I MISMATCH BETWEEN PRINT DATA SET AND FORMDEF RESOURCE: MEDIUM MAP '*medium map*' SPECIFIED IN IMM STRUCTURED FIELD WAS NOT FOUND IN FORMDEF '*form definition name*.'

Explanation: The Token Name parameter in the Invoke Medium Map (IMM) structured field specifies the token name used to find a medium map in the form definition. This parameter must match the Token Name parameter specified in bytes 0–7 in one of the Begin Medium Map (BMM) structured fields in the current form definition. The IMM structured field is in the print data set.

System Action: PSF stops processing and terminates the current data set.

User Response: Ensure that the correct form definition was specified. If it was, and if you added the Invoke Medium Map structured field to the print data set, change the Token Name in the IMM structured field and resubmit the print request. For more information about the BMM and IMM structured fields, refer to *Mixed Object Document Content Architecture Reference*. If the correct form definition was specified, and if you used a program to imbed the IMM structured field in the print data set, verify that the copy group

name that you gave the program is valid for the form definition you have specified.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS158I PAGEDEF KEYWORD MUST BE SPECIFIED IN ORDER TO PRINT THIS DATA SET. DETERMINE THE PERMISSIBLE VALUES USED IN YOUR INSTALLATION FOR THE PAGEDEF KEYWORD.

Explanation: The current data set contains line data or structured fields that do not form a MO:DCA page. This kind of data set cannot be printed without an active page definition. No PAGEDEF keyword was provided on the JCL OUTPUT statements for this job, and no default page definition was defined in the PSF initialization procedure.

This error can also occur if MO:DCA data in the print data set contains a record without the required X'5A' control character preceding the structured field introducer. The missing control character makes the record appear to be line data. A page definition is necessary to process line data. Therefore, PSF detects an error.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you intended to print line data, do one of the following to specify a page definition:

- Code the PAGEDEF parameter on the JCL OUTPUT statement. For information on how to code the OUTPUT statement, refer to *PSF for OS/390: User's Guide*.
- Code the FCB parameter on the JCL DD statement.
- Request that your system programmer code a default page definition name in the PSF initialization procedure.

If you did not intend to print line data, and you used a program to create the structured fields for the print data set, ensure that all MO:DCA data records begin with the X'5A' control character.

If you did not intend to print line data, and you used a program to create the structured fields for the print data set, consult your system programmer.

System Programmer Response: If the problem is with either a separator page or a message, modify the

JCL OUTPUT statement for the separator or message data set.

Specify a default page definition on the JCL PRINTDEV statement in the procedure used to start PSF. For information on how to code the PRINTDEV statement, refer to *PSF for OS/390: Customization*.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 19.

APS159I THE END OF THE DATA STREAM WAS ENCOUNTERED BEFORE THE LOGICAL END OF AN OBJECT WITHIN THE DATA STREAM.

Explanation: The object that PSF was processing began with a Begin-type structured field, but the input data stream ended before a corresponding End-type structured field was found. This message can also occur if the system operator prematurely interrupts or ends a print request by issuing an INTERRUPT, RESTART, or CANCEL Job Entry Subsystem (JES) command.

System Action: PSF stops printing the current data set, and prints any data accumulated for the current page. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 17, 19.

APS162I MISMATCH BETWEEN PRINT DATA SET AND PAGEDEF RESOURCE: DATA MAP 'data map' SPECIFIED IN IDM STRUCTURED FIELD WAS NOT FOUND IN PAGEDEF 'page definition.'

Explanation: The Token Name parameter in the Invoke Data Map (IDM) structured field specifies the token name used to find a data map in the page definition. The name must match the value specified in the Token Name parameter in the Begin Data Map (BDM) structured field in the current page definition. The IDM structured field is in the print data set.

System Action: PSF stops processing the current page and issues additional messages identifying the processing environment in which the error occurred.

User Response: Ensure that the correct page definition was specified. If it was, and if you added the Invoke Data Map structured field to the print data set, change the Token Name in the IDM structured field and resubmit the print request. For more information about the BDM and IDM structured fields, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the correct page definition was specified, and if you used a program to imbed the IDM structured field in the print data set, verify that the data map name you supplied to the program is valid for the page definition you have specified.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS163I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SCALE FACTOR VALUE IN THE IOC STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Image Block Scale Factor parameter in the Image Output Control (IOC) structured field is invalid. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If the structured fields are invalid and you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS165I DATA IN A CODE-PAGE RESOURCE IS INVALID: GRAPHIC CHARACTER IDENTIFIER MUST NOT BE NULL IN THE CPI STRUCTURED FIELD.

Explanation: The Graphic Character Identifier parameter in a Code Page Index (CPI) structured field cannot be null. The CPI structured field is in the code page.

System Action: PSF stops processing the current page. PSF attempts to find the end of the current page and continue printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the code page resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the code page, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that

program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS166I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN ENTRY IN A MCF STRUCTURED FIELD CONTAINS AMBIGUOUS IDENTIFICATION.

Explanation: A font in the Map Coded font (MCF) structured field may be identified with either a Coded font Name parameter or with a combination of the Font Character Set Name parameter and the Code Page Name parameter. One of the repeating groups in an MCF structured field specified both a Coded font Name parameter and at least a Font Character Set Name or a Code Page Name parameter. The MCF structured field is in the MO:DCA data, an overlay, or a page definition.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS167I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN ENTRY IN AN MCF STRUCTURED FIELD CONTAINS INCOMPLETE IDENTIFICATION.

Explanation: One of the repeating groups in a Map Coded font (MCF) structured field does not contain enough information to identify a coded font. A font in the Map Coded font (MCF) structured field may be identified either with a Coded font Name parameter, or with a combination of the Font Character Set Name parameter and the Code Page Name parameter. An entry contains only a Font Character Set Name parameter or a Code Page Name parameter. The MCF structured field is contained in a MO:DCA document, an overlay, or a page definition.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS169I INSUFFICIENT VIRTUAL STORAGE PREVENTED FURTHER PROCESSING. INCREASE REGION SIZE, AND RESUBMIT THE PRINT REQUEST.

Explanation: The storage available in the PSF address space is insufficient to contain the internal control block needed to read an object.

System Action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: The size of the REGION parameter used for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the data set containing the error was spooled, increase the REGION parameter on the writer procedure.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 17, 19.

APS170I DATA IN A FORMDEF RESOURCE IS INVALID: THE SIMPLEX/DUPLEX VALUE IN MMC STRUCTURED FIELD, ID identifier, IS NOT ACCEPTABLE.

Explanation: In the Medium Modification Control (MMC) structured field with the specified identifier, the value for either the SIMPLEX keyword parameter value or the DUPLEX keyword parameter value is invalid. The MMC structured field is contained in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues

additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS171I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: FONT LOCAL IDENTIFIER VALUE IS NOT ACCEPTABLE IN THE structured field STRUCTURED FIELD.

Explanation: The Map Coded font (MCF) structured field consists of repeating groups. In one of the groups, the value of the Coded font Local Identifier parameter for the font (section) being mapped is invalid. The MCF structured field is contained in a MO:DCA document, an overlay, or a page definition.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for

the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS172I DATA IN A FORMDEF RESOURCE IS INVALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES BOTH NORMAL AND TUMBLE DUPLEX.

Explanation: The Medium Copy Count (MCC) structured field refers to one or more Medium Modification Control (MMC) structured fields, which include requests for both normal duplex and tumble duplex. You cannot request both normal duplex and tumble duplex within the same medium map. The MCC and MMC structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference and Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MCC and MMC have no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS178I DATA IN A FORMDEF RESOURCE IS INVALID: THE MCC STRUCTURED FIELD HAS AN ODD NUMBER OF COPY GROUPS, BUT SPECIFIES DUPLEX.

Explanation: The Medium Copy Count (MCC) structured field specifies an odd number of copy groups, but the copy group modifications specified in the Medium Modification Control (MMC) structured field include duplex, which requires an even number of copy groups. The MCC and MMC structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- PSF is not started, either for the default form definition or for a form definition specified for printing messages or separator pages.
- PSF cannot begin printing the data set for a form definition specified on a user's JCL OUTPUT statement; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference and Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MCC and MMC have no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the

source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS179I DATA IN A FORMDEF RESOURCE IS INVALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES BOTH SIMPLEX AND DUPLEX.

Explanation: The Medium Copy Count (MCC) structured field refers to two or more Medium Modification Control (MMC) structured fields, which include requests for both simplex and duplex printing. You cannot specify both simplex and duplex printing within the same medium map. The MCC and MMC structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MCC and MMC have no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information

provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS181I DATA IN A FORMDEF RESOURCE IS INVALID: UNEQUAL COPY COUNTS FOR DUPLEX SHEETS ARE SPECIFIED IN THE MCC STRUCTURED FIELD.

Explanation: The set of modifications referred to by the Medium Copy Count (MCC) structured field includes duplexing, but the numbers of copies in two corresponding repeating groups are not equal. The repeating groups are defined in the Medium Map Control structured field (MMC). The MCC and MMC structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- PSF is not started either for the default form definition or for a form definition specified for printing messages or separator pages.
- PSF cannot begin printing the data set for a form definition specified on a user's JCL OUTPUT statement; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MCC and MMC have no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for

the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS186I DATA IN A CODE-PAGE RESOURCE IS INVALID: THE DEFAULT GRAPHIC CHARACTER NAME MUST NOT BE NULL IN A CPC STRUCTURED FIELD.

Explanation: The Default Graphic Character parameter in a Code Page Control (CPC) structured field specifies the name of the graphic character raster pattern that is used when a pattern is not assigned to a code point in a Code Page Index (CPI) structured field. This parameter cannot have a null value. A null value is any value that contains X'FFFF' in the first two bytes. The CPC and CPI structured fields are in the code page.

System Action: PSF stops processing the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the code page resource.

User Response: If you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the code page, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS188I THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD SELECTS MORE THAN ONE INPUT SOURCE, AND THE DEVICE DOES NOT SUPPORT MORE THAN ONE INPUT SOURCE.

Explanation: The Medium Copy Count (MCC) structured field refers to one or more Medium Modification Control (MMC) structured fields, which include requests for more than one input source. You cannot specify more than one input source for one copy group, because the printer you are using does not support it. The MCC and MMC structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: Request that the job be printed on a printer that supports the specification of input source in the Load Copy Control (LCC) command. If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS190I DATA IN A FORMDEF RESOURCE IS INVALID: THE BIN-SELECTION VALUE IN MMC STRUCTURED FIELD, ID *identifier*, IS NOT ACCEPTABLE.

Explanation: In the Medium Modification Control (MMC) structured field whose identifier is specified in the message text, the bin-selection parameter value was invalid. The MMC structured field is contained in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS191I DATA IN A FORMDEF RESOURCE IS INVALID: THE SUPPRESSION LOCAL IDENTIFIER VALUE IN MMC STRUCTURED FIELD, ID *identifier*, IS NOT ACCEPTABLE.

Explanation: The Medium Modification Control Identifier parameter in a Medium Modification Control (MMC) structured field is invalid. The MMC structured field is contained in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS192I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: THE PATTERN DATA ALIGNMENT PARAMETER IN THE FNC STRUCTURED FIELD CONTAINS AN UNACCEPTABLE VALUE.

Explanation: The pattern data alignment value in the Font Control (FNC) structured field is invalid. The FNC structured field is contained in the font character set.

System Action: PSF cannot print the current page, but attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS193I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: BYTES 4–9 OF THE FNC STRUCTURED FIELD SPECIFY METRICS THAT ARE EITHER INVALID OR UNSUPPORTED BY THIS PRINTER.

Explanation: Bytes 4–9 were specified incorrectly in a Font Control (FNC) structured field. The FNC structured field is contained in the font character set.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource.

PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS194I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: THE CHARACTER INCREMENT VALUE IN THE FNI STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Character Increment parameter in a repeating group in the Font Index (FNI) structured field has an invalid value. The FNI structured field is contained in the font character set.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS195I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: THE CHARACTER BOX SIZE VALUE IN THE FNI STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Character Box Size parameter in a repeating group in a Font Index (FNI) structured field has an invalid value. The FNI structured field is contained in the font character set.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS196I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: THE PATTERN DATA ADDRESS VALUE IN THE FNI STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: A Pattern Data Address parameter in a repeating group of a Font Index (FNI) structured field has an invalid value. The FNI structured field is contained in the font character set.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS197I DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: NO FNI STRUCTURED FIELD WAS FOUND CORRESPONDING TO THE FONT INDEX NUMBER SPECIFIED IN AN FNO DATA GROUP.

Explanation: The FNO data group for the character rotation required by the font contains a font index

number as part of the Flags byte. The index number specifies which Font Index (FNI) structured field in the font character set to use. The required FNI structured field was not found. The FNI and FNO structured fields are in the font character set.

System Action: PSF cannot print the current page, but attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS199I AN ATTEMPT IS BEING MADE TO LOAD A REQUESTED DOUBLE-BYTE FONT INTO A PRINTER MODEL OR CONFIGURATION THAT MAY NOT BE ABLE TO ACCEPT IT.

Explanation: A request has been made to use a double-byte font on a printer that is not configured for double-byte font fonts.

System Action: In addition to this message, PSF issues messages identifying the current record and the processing environment. PSF tries to load the font into the printer. If that loading fails, subsequent messages identify the font in question, and tell where that font is referenced.

User Response: Ensure that documents requiring double-byte font fonts are routed to a printer model or configuration that can process them. Otherwise, do not use double-byte font fonts.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS206I THE DATA SET WAS TERMINATED; THE MESSAGE THRESHOLD SPECIFIED ON PIMSG WAS REACHED.

Explanation: The number of message groups specified in the PIMSG JCL keyword was reached. The message limit was specified either in the JCL for the data set, or in the procedure used to start PSF. If a number for PIMSG was not specified, the PSF default of 16 was used.

System Action: Processing of the data set is terminated. Pages that were being processed when the message group limit was reached may also print. Processing continues with the next data set.

User Response: Fix the errors reported in accompanying messages or raise the PIMSG limit and resubmit the print request. If you did not set the value of PIMSG to this limit and you do not want the limit enforced on the next print request, specify your own PIMSG value on the JCL for the next print request. For information on how to code the PIMSG keyword, refer to *PSF for OS/390: User's Guide*.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS207I A DOUBLE-BYTE FONT WAS SPECIFIED FOR A PRINTER THAT DOES NOT SUPPORT DOUBLE-BYTE FONTS.

Explanation: A request to use a double-byte font was made to a printer that does not support double-byte fonts.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: Ensure that documents requiring double-byte fonts are routed to a printer model or configuration that can process them. Otherwise, do not use double-byte fonts.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS209I DATA IN FORMDEF RESOURCE *formdef name* IS NOT ACCEPTABLE FOR MEDIA ORIGIN OVERRIDE AS REQUESTED BY INSTALLATION EXIT APSUX07.

Explanation: Installation exit APSUX07 requested that the media origin be changed to match the 3800 media origin, but the form definition specified capabilities that are not supported by the 3800, such as N_UP or Presentation System Setup IDs. These functions are not acceptable when the media origin is being overridden.

System Action: The media origin override request is ignored, and PSF continues processing, using the current form definition and the requested functions.

User Response: No response is necessary.

System Programmer Response: Refer to *PSF for OS/390: Customization* for a list of functions that are not available with the media origin override.

Operator Response: No response is necessary.

Problem Determination: None.

APS210I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A REQUIRED SELF-DEFINING PARAMETER WITH ID *id* WAS MISSING FROM A *structured field name* STRUCTURED FIELD.

Explanation: The self-defining parameter specified in the message was not found in the indicated structured field. This is a required self-defining parameter. The structured field is in an image object or object container resource. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: For image objects, PSF terminates the page or overlay containing the structured field in which the error occurs. PSF attempts to find the end of the current page and resume processing on the next page. If unable to find the end of the page, PSF stops printing the data set.

For non-presentation object containers, PSF stops printing the data set.

PSF issues a message that identifies the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 13, 17.

APS212I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE UNIT BASE PARAMETER IN THE *structured field name* STRUCTURED FIELD IS INVALID.

Explanation: An invalid Unit Base value was encountered in the structured field identified in this message. The structured field is in the Object Environment Group of an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: PSF stops processing the current page or overlay. Processing continues with the next page or overlay. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 13, 17.

APS213I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE L-UNITS PER UNIT BASE PARAMETER IN THE structured field name STRUCTURED FIELD IS INVALID.

Explanation: An invalid L-Units value was encountered in the structured field identified in this message. The structured field is in the Object Environment Group of an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: PSF stops processing the current page or overlay. Processing continues with the next page or overlay. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for

the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 13, 17.

APS214I DATA IN A FORMDEF RESOURCE IS INVALID: CONSTANT FORMS CONTROL, SPECIFIED IN MEDIUM MAP medium map name, IS NOT ALLOWED WITH ENHANCED N_UP. THE CONSTANT FORMS CONTROL IS IGNORED.

Explanation: Both enhanced N_UP and Constant Forms Control were requested in the form definition, but Constant Forms Control is not allowed when Enhanced N_UP is being used. Function similar to Constant Forms Control may be specified in the *PgFlgs* and *PMCID* parameters of the Page Position (PGP) Format 2 structured field. To request enhanced N_UP, specify explicit page placement in the PGP structured field and specify N_UP in the Medium Modification Control (MMC) structured field. The Constant Forms Control is in the MMC structured field. The MMC and PGP structured fields are in the form definition.

System Action: The Constant Forms Control is ignored, and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS215I DATA IN A FORMDEF RESOURCE IS INVALID: THE PAGE MODIFICATION CONTROL IDENTIFIER IN THE *structured field* STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: An invalid Page Modification Control identifier was encountered either in the Page Modification Control (PMC) structured field or in a Page Position (PGP) Format 2 structured field repeating group. The PMC and PGP structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS217I DATA IN AN INPUT RECORD IS INVALID: PARAMETER IN A BR STRUCTURED FIELD CONTAINS UNACCEPTABLE DATA.

Explanation: One of the parameters in the Begin Resource (BR) structured field is invalid. The BR structured field is in the print data set.

System Action: PSF stops printing the current data set and issues a message identifying the processing environment in which the error occurred.

User Response: If you placed the BR structured field in the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If you used a program to place the BR structured field in the print data set, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to place the BR structured field in the print data set, verify that the input to that program was valid. If it was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS218I DUPLEXING WAS REQUESTED, BUT IS NOT SUPPORTED BY THIS PRINTER OR BY ALL OF THE INPUT BINS THAT WERE USED. THE OUTPUT IS PRINTED SIMPLEX.

Explanation: Duplexing was requested but is not supported by the printer or by the input bins that were being used. If multiple copies of a page are being printed from different input bins and not all input bins support duplex, output for the page is printed simplex.

System Action: PSF issues this message and continues processing, printing in simplex.

User Response: If you do not want simplex output, submit the print request to a printer that supports duplex printing, or specify an input bin that supports duplex printing, if your installation has one. If you are printing multiple copies of a page from different input bins, ensure that all input bins requested for all copies support duplex printing.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS2191 THE INPUT BIN SPECIFIED IN THE MMC STRUCTURED FIELD WAS DISABLED. AN ALTERNATIVE BIN WAS SUBSTITUTED.

Explanation: The Medium Modification Control (MMC) structured field requested an input bin that is supported by the printer but was disabled. The MMC structured field is contained in the form definition.

System Action: PSF continues processing, selecting paper from an alternative bin.

User Response: If the output is not acceptable, submit the print request to a printer that has the specified bin available, or ensure that the bin is enabled on the original printer before resubmitting the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS2201 OFFSET STACKING WAS SPECIFIED IN THE MMC STRUCTURED FIELD BUT IS NOT SUPPORTED BY THIS PRINTER. THE OUTPUT IS NOT OFFSET.

Explanation: Offset stacking is not supported by this printer.

System Action: PSF issues this message and continues processing without offsetting the output.

User Response: If you want offset stacking, submit the print request to a printer that supports offset stacking.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS2211 DATA IN A FORMDEF RESOURCE IS INVALID: THE ORIENTATION VALUE value IN THE MDD STRUCTURED FIELD IS UNACCEPTABLE.

Explanation: The Medium Descriptor (MDD) structured field has an invalid orientation value. The MDD structured field is in the form definition for the job.

System Action: If the form definition was specified by the job, PSF terminates the data set and issues an accompanying APS1011 message. If the form definition is the default or is a form definition specified for printing messages or separator pages, PSF is not started. PSF issues a message identifying the position of the structured field in the FORMDEF. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 17.

APS2221 DATA IN A FONT-CHARACTER-SET RESOURCE IS INVALID: THE FNM INDEX IN THE FNI STRUCTURED FIELD CONTAINS AN UNACCEPTABLE VALUE.

Explanation: The FNM index value is invalid in the Font Index (FNI) structured field. The FNI structured field is in the font character set.

System Action: PSF cannot print the current page, but attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error was found.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator

pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS223I A FORMDEF RESOURCE REQUESTED ENHANCED N_UP AND A CONFLICTING VALUE FOR DUPLEX WAS SPECIFIED ON THE OUTPUT STATEMENT.

Explanation: When enhanced N_UP is requested, the DUPLEX keyword on the OUTPUT statement cannot be used to change from duplex (specified in the form definition) to simplex or vice versa. The reason is that with enhanced N_UP, the Page Position (PGP) Format 2 structured field specified the partition number and sheet side for each page placed on a sheet. If the duplex value is changed from duplex to simplex or vice versa, PSF does not have the information it needs to place the pages.

The only valid options for the DUPLEX keyword when enhanced N_UP is specified in the form definition are:

- If the form definition requests normal or tumble duplex, you may specify either DUPLEX=NORMAL or DUPLEX=TUMBLE on the output statement.
- If the form definition requests simplex, you may specify DUPLEX=NO on the output statement.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: Resubmit the job without requesting the DUPLEX keyword on the output statement.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 12, 17, 19.

APS224I THE PRINT DATA SET IS NOT RECOGNIZED AS A SOFTCOPY BOOK.

Explanation: A subset of PSF is included in the base code of OS/390 to allow you to print only BookManager softcopy BOOKs created by use of BookManager BUILD and viewable by use of BookManager READ. To print data sets other than softcopy BOOKs, you must buy and install PSF for OS/390.

The data set you tried to print was not a softcopy BOOK generated by BookManager.

System Action: PSF stops processing the data set. This message is followed by another message, such as APS225I, describing what PSF has done with the data set.

User Response: If you are printing a softcopy BOOK, verify that you have followed the instructions given in *OS/390 Printing Softcopy BOOKs*. If you have followed those instructions or if you are printing other than a softcopy BOOK, contact your system programmer.

System Programmer Response: To be able to print non-softcopy BOOKs, full-function PSF for OS/390 must be installed.

If the user is receiving this message for a softcopy BOOK, contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this message.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 13, 17, 31.

APS225I SYSTEM ACTION TAKEN: THE ERRORS LISTED PREVENTED THE PRINTING OF THE DATA SET. THE DATA SET WILL BE HELD.

Explanation: Errors were detected while PSF was processing a data set. These could be I/O errors or errors encountered while mapping an overlay, a font, a page segment, or a page definition. Mapping is the procedure PSF uses to process these resources when they are selected for use in printing a data set. The resource errors consist of structured field sequence problems, data value errors, or loading errors. PSF marked the data set unprintable, and returned the data set to the Job Entry Subsystem (JES) to be marked as held for release by the operator. Informational messages preceding this message explain why the data set was not printed.

System Action: Processing continues with the next data set.

User Response: The accompanying error messages determine what corrections must be made before the data set can be released and the print request retried. Attempt a retry only if the error was corrected by replacing a resource. Otherwise, the current print request should be canceled and a new one created.

System Programmer Response: No response is necessary.

Operator Response: Requeue the data set as requested. Use JES commands to release the data set.

Problem Determination: Items 1, 2, 3, 17.

APS226I THE ASSOCIATED DATASET WAS PRINTED ON *nnnnnnnn*, WHICH IS A *pppp*.

Explanation: The listed printer type identifies the device selected for printing the data set associated with the following messages: *Nnnnnnnn* is the printer name if the printer is a JES printer, or the printer control statement name if the printer is being used in direct-printing mode; *pppp* is the printer device type.

System Action: This message is issued only if other messages are issued for the data set, and if the PIMSG parameter is set to YES either in the JCL for the print job or in the PSF startup procedure.

User Response: Ensure that the type of the device is what you expected. Output formatted for one type of page printer may print with errors on another type of printer.

System Programmer Response: Ensure that the type of the device is what you expected. Output formatted for one type of page printer may print with errors on another type of printer.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 8, 19.

APS227I THE SUM OF THE NUMBER OF SECURITY OVERLAYS AND USER OVERLAYS FOR ONE PAGE IS MORE THAN 8.

Explanation: When the number of overlays specified in the Medium Modification Control (MMC) structured field and the number of security overlays is added, the total is more than 8. A maximum of 8 overlays per page is permitted on this printer. The MMC structured field is contained in the form definition.

The limit for the total number of overlays depends on the printer you use. For more information, refer to *Advanced Function Presentation: Printer Information*.

System Action: If the error occurred in a page, PSF attempts to find the end of the page. If PSF finds the end of the page, PSF prints any accumulated data for the current page. If unable to find the end of the page, PSF terminates the data set. If the error occurred on a separator page or a message data set, PSF cannot print the separator page or the message data set, and an error message is issued to the operator's console. PSF issues a message identifying the position of the MMC structured field that caused the error. PSF issues additional messages identifying the environment in which the error is found.

User Response: If you created the form definition that contains the MMC structured field, you will have to

remove one or more of the overlays, depending on how many security overlays are printed on your class of job. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. Resubmit the print request. If the total number of user overlays and security overlays is less than or equal to 8, the error may be a PSF logic error. To find out how many security overlays are placed on your pages, consult your system programmer.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 28.

APS228I PAGE LABELING WAS IN EFFECT, BUT NO SECURITY OVERLAYS WERE FOUND IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY FOR THE CURRENT PAGE SIZE AND PAGE TOP.

Explanation: When page labeling is in effect (SPAGELBL = YES or DPAGELBL = yes), at least one security overlay must be listed in the appropriate entry of the security definitions library member used to print this page. The appropriate entry is based upon the page size and top specification. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Ensure that at least one overlay for the page top, page size, and security label is listed in the security definitions library member referenced in the message. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS229I SYSTEM ACTION TAKEN: THE ERRORS LISTED OCCURRED DURING THE PROCESSING OF THE SECURITY DEFINITIONS LIBRARY. PROCESSING OF THE DATA SET WAS TERMINATED.

Explanation: This message is issued in addition to a message describing an error that occurred during processing of a member of the security definitions library. Other error messages issued by PSF describe the precise error condition.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: See the specific error conditions described in the accompanying messages to determine an appropriate response.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS230I THE KEYWORD *value* IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS INVALID.

Explanation: A keyword that is not valid for entry in the security definitions library was found during the processing of the member for the specified security label. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the keyword in the appropriate member of the security definitions library. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS231I REQUIRED KEYWORD SECOVLY, UPADIM, OR UPORG IS MISSING FROM AN ENTRY IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY.

Explanation: While processing an entry in a security definitions library member, PSF could not find a required keyword. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Add the required keyword to correct the entry in the appropriate member of the security definitions library. Cancel and restart the PSF startup procedure; then release the job that is held. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS232I PAPERNAME *value* IS NOT A SYSTEM-DEFINED PAPER NAME. IT WAS ENCOUNTERED WHILE PROCESSING THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY.

Explanation: While PSF was processing an entry in a security definitions library member, the PAPERNAME keyword was found. The paper name specified for this keyword is not a valid, system-defined paper name. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your

operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS233I THE *value* KEYWORD IS OUT OF SEQUENCE IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY.

Explanation: While PSF was processing an entry in a member of the security definitions library, the specified keyword was found when a different keyword was expected. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS234I THE SECOVLY KEYWORD WAS FOUND BUT NO OVERLAYS WERE SPECIFIED IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY.

Explanation: While PSF was processing an entry in a security definitions library member, the SECOVLY keyword was found, followed by another keyword. An overlay name was expected. At least one overlay name is required to perform either data page labeling or separator page labeling for the job. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the

publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS235I THE UNIT *unit* IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS INVALID.

Explanation: While PSF was processing an entry in a security definitions library member, an invalid unit of measurement was processed. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS236I THE NUMBER *number* IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS INVALID.

Explanation: While PSF was processing an entry in a security definitions library member, a number was processed that either is not numeric or is outside the valid range. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS2371 A PAPER SIZE MATCHING THE LOADED PAPER WAS NOT FOUND IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY.

Explanation: No entry was found in the security definitions library member to match the size of the paper loaded in one of the printer bins. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Add an entry to the appropriate member of the security definitions library for the paper size in the specified bin. Ensure that the PAPERSIZ specified is within plus or minus .04 inches of the actual form size loaded in the printer. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: An unusual paper size may have inadvertently been left in the specified bin. If so, replace the bin contents with paper of the correct size.

Problem Determination: Items 2, 17, 28.

APS2391 SYSTEM ACTION TAKEN: THE ERRORS LISTED OCCURRED DURING PROCESSING OF A SECURE RESOURCE. PROCESSING OF THE DATA SET WAS TERMINATED.

Explanation: An error occurred during processing of a secure resource. The objects being processed are provided to other PSF messages to identify the location of the error in the resource.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 1, 2, 3, 8, 15, 17, 28.

APS2401 THE OVERLAY NAME *name* IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS INVALID.

Explanation: While PSF was processing an entry in a security definitions library member, an overlay name that is too long was processed. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS2411 SYSTEM ACTION TAKEN: THE ERRORS OCCURRED DURING PROCESSING OF FINISHING OPERATION TRIPLETS. THESE FINISHING OPERATION TRIPLETS WILL NOT BE USED IN THE PROCESSING OF THE DATA SET. THE PROCESSING OF THE DATA SET CONTINUES.

Explanation: A finishing operation triplet is invalid or forms an invalid request because it is not compatible with other triplets in the same request. The triplet is not used to process this data set. Informational messages preceding this message explain why the finishing operation triplet could not be used.

System Action: The triplet is ignored and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS242I CUT-SHEET EMULATION CAUSED TOO MANY COPY CONTROLS TO BE GENERATED FOR THE CURRENT FORM ENVIRONMENT GROUP.

Explanation: For a given physical page, up to 256 bytes of data can be specified for the printer command that describes the copies and modifications to be made. When Cut-Sheet Emulation is being used, PSF must make modifications to the printer command. The modifications for Cut-Sheet Emulation caused data for the printer command to exceed 256 bytes. PSF builds the printer command from data contained in the form definition.

System Action: The form definition causing the error for Cut-Sheet Emulation is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

User Response: Either reduce the number of copies specified, or reduce the number of modifications (suppressions, overlays, etc.) specified. Otherwise, split these functions between two or more form environment groups in two or more medium maps (COPYGROUPS). Then include in your input two or more identical copies of the same page, each of which selects an appropriate copy group by use of the Invoke Medium Map (IMM) structured field.

If you created the structured fields for the form definition, the number of copies or copy groups is specified in the Medium Copy Count structured field, and the medium modifications are specified in the Medium Modification Control (MMC) structured field. For more information about the MCC, MMC, and IMM

structured fields, refer to *Mixed Object Document Content Architecture Reference*.

System Programmer Response: Use the information provided in the User Response section to correct this error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: None.

APS244I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE *structured field name* STRUCTURED FIELD CONTAINS TOO MANY REPEATING GROUPS.

Explanation: The structured field name contains more repeating groups than are allowed. The structured field in which the error appears can be in a composed text page, an overlay, or a page definition.

System Action: If this error occurred in a page definition or an overlay, PSF stops processing the data set. If this error occurred in a composed text page, PSF stops processing the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the current page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error was found.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field contains no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 17, 19.

APS245I A COMPLEX IM IMAGE OBJECT CONTAINS INVALID OR INCORRECT DATA. THE COMPLEX IM IMAGE OBJECT CANNOT BE CONVERTED TO AN IO IMAGE OBJECT.

Explanation: This message is issued when PSF converts a complex IM image object to an IO image object and the image size is not large enough to contain the image raster data from the IRD structured fields. This message is issued only when installation exit APSUX07 has requested that PSF convert a complex IM image object to a single IO image object.

This message is issued if any of the following is true:

- The XCSIZE parameter value of the ICP structured field is larger than the calculated image X size.
- The YCSIZE parameter value of the ICP structured field is larger than the calculated image Y size.
- The XCOSET plus XFILLSIZE parameter values of the ICP structured field are larger than the calculated image X size.
- The YCOSET plus YFILLSIZE parameter values of the ICP structured field are larger than the calculated Y size.

When PSF converts a complex IM image object to an IO image object, PSF calculates the image size by subtracting the X and Y image origins from the X and Y page sizes.

The X and Y image origins are from the XOAOSSET and YOAOSSET parameter values of the IOC structured field.

The X and Y page sizes are from the XPGSIZE and YPGSIZE parameter values of the PGD structured field, if the image object is in a MO:CDA data set or in an overlay, or is imbedded in a data set containing line data. For an image object in a page segment, the X and Y page sizes used by PSF are from the X and Y paper sizes of the current media source (media bin).

The IOC and ICP structured fields are in a MO:DCA data set, in an overlay, or in a page segment, or are imbedded in a data set containing line data. The PGD structured field is in a MO:CDA data set, in an overlay, or in a page definition.

System Action: PSF stops processing the image object and issues additional messages identifying the processing environment in which the error occurred. PSF sends the part of the image that was successfully processed, if any, to the printer. PSF then continues processing the current data set.

User Response: If you created the structured fields for the resource or print data set containing the image,

correct the error in the referenced structured field, and resubmit the print request. For more information about the MMC structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer that this error occurred.

Problem Determination: Items 13, 17, 19.

APS246I THE UPADIM VALUE IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY WAS EITHER MISSING OR INVALID FOR THE CURRENT PAGE SIZE AND PAGE TOP.

Explanation: Either the UPADIM parameter was not specified in the appropriate entry in a security definitions library member, or one or both of the values were invalid. The appropriate entry is based on the page size and top specification. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Ensure that valid values are specified for the UPADIM parameter in the member of the security definitions library referenced in the message. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem Determination: Items 2, 17, 28.

APS247I THE TOP KEYWORD VALUE *value* IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS INVALID.

Explanation: While PSF was processing the member for the specified security label in a security definitions library, an invalid value for the TOP keyword was found. The name of the member in the security definitions library is the *security label* of the print job.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the parameter in the appropriate member of the security definitions library. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 28.

APS248I MULTIPLE COPIES FROM DIFFERENT INPUT BINS WERE REQUESTED WHILE PAGE LABELING WAS IN EFFECT, BUT THE BIN ATTRIBUTES DID NOT MATCH.

Explanation: Multiple copies from different input bins were requested in the form definition, but the two bins are loaded with paper of different sizes. Because page labeling is in effect, if multiple copies are requested from different input bins, the input bins must be configured the same.

System Action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred. If the error occurred on a separator page or the message data set, PSF releases the current data set back to JES and requests that the system hold it.

User Response: Change the form definition to request multiple copies from input bins that have the same paper size configuration, and resubmit the print request.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If the form definition is correct, and copies are needed from the specified input bins, load both bins with paper of the same size. If the message displays on the operator's console, it indicates that the error occurred for a separator page or for the message data set. Check that the input bins are loaded with paper of the correct size. If yes, notify your system programmer of the problem.

Problem Determination: Items 2, 17, 28.

APS249I A MICR FONT WAS SPECIFIED FOR A PRINTER THAT EITHER DOES NOT SUPPORT MICR FONTS OR HAS THE MICR FONT SUPPORT DISABLED.

Explanation: The Font Control (FNC) structured field indicates that the font supports Magnetic Ink Character Recognition (MICR), but either the device does not support MICR fonts or the support has been disabled. The FNC structured field is in the font character set.

System Action: PSF cannot print the current page, but it attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User Response: If you do not want MICR fonts, correct the error and resubmit the print request. If you do want MICR fonts, verify that the printer supports MICR. If it does, verify that it is enabled.

System Programmer Response: No response is necessary.

Operator Response: If the printer is disabled, enable it, if appropriate.

Problem Determination: Items 1, 2, 3, 8, 13, 17, 19.

APS250I DATA IN A PAGE OR RESOURCE IS MISSING: THE REQUIRED STRUCTURED FIELD *structured field name* COULD NOT BE FOUND TO COMPLETE THE PROCESSING OF A PAGE OR RESOURCE.

Explanation: The structured field identified in this message is required in order to complete the processing of a page or a resource. This structured field was not found before the end of the page or resource was encountered.

System Action: PSF stops processing the current page, and any accumulated data for the current page is printed.

PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If the error occurs as a result of a missing structured field within an inline resource, PSF stops printing the data set.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If

you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS251I DATA IN A FORMDEF RESOURCE IS MISSING: THE FORMDEF DOES NOT CONTAIN ANY MEDIUM MAPS.

Explanation: The form definition did not specify any medium maps; however, a medium map is required in order to print a page.

System Action: The form definition is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information

provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS252I THE FORM DEFINITION OR THE JCL COPIES PARAMETER SPECIFIED MULTIPLE COPIES OF A PAGE, BUT THE PRINTER DOES NOT SUPPORT THIS FUNCTION.

Explanation: More than one uncollated copy of a page was requested for this print request, but the printer selected to print the job does not support this function. The multiple copies were requested either by the JCL COPIES parameter or by the Medium Copy Count (MCC) structured field in the form definition.

System Action: PSF prints only one copy of the page, and processing continues.

User Response: If you require multiple copies of a page, resubmit the print request to a printer that supports the function.

If you do not require multiple copies of a page, and if you specified the form definition or the COPIES parameter in the JCL for the print job, do one of the following:

- Specify a form definition that does not request multiple copies of a page, and resubmit the print request.
- Remove the request for multiple copies of a page from the form definition, and resubmit the print request with the same form definition specified in your JCL.
- Change the COPIES parameter specification in your JCL, and resubmit the print request.

If you do not require multiple copies of a page, and if you did not specify the form definition or the COPIES parameter in the JCL for the print job, resubmit the print request, specifying either a COPIES parameter of 1 or a form definition that does not request multiple copies of a page in the JCL for your print job.

System Programmer Response: If the error involved separator pages or the message data set, change the form definition named in the PRINTDEV statement that is used for that type of output so that it does not request multiple copies.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS253I DATA IN A FORMDEF RESOURCE IS INVALID: THE PRINT QUALITY VALUE IN MMC STRUCTURED FIELD, ID *identifier*, IS NOT ACCEPTABLE.

Explanation: The Medium Modification Control (MMC) structured field specified a print quality value of 0, which is outside the valid range. The MMC structured field is contained in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS254I DATA IN A FORMDEF RESOURCE IS INVALID: THE OFFSET STACKING VALUE IN MMC STRUCTURED FIELD, ID *identifier*, IS NOT ACCEPTABLE.

Explanation: The Medium Modification Control (MMC) structured field specified an offset stacking value other than 0 or 1. The MMC structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS255I THE INPUT BIN *input bin* THAT WAS SPECIFIED IN THE MMC STRUCTURED FIELD WAS NOT SUPPORTED ON THE PRINTER. AN ALTERNATIVE BIN WAS SUBSTITUTED.

Explanation: The Medium Modification Control (MMC) structured field specified a bin number that does not exist on the selected printer. The MMC structured field is in the form definition.

System Action: PSF issues this message and continues processing, selecting paper from an alternative bin.

User Response: If the output is not acceptable, submit the print request to a printer that supports the specified bin. If you want to use the original printer, and if you created the structured fields for the form definition, specify a supported bin in the MMC structured field. For more information about the MMC structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field contains the number of a supported bin, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, ensure that the input to that program specified a supported bin. If it did, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS256I DUPLEXING WAS SPECIFIED IN THE MMC STRUCTURED FIELD, BUT THE DUPLEX PAPER PATH IS DISABLED AT THE PRINTER. THE OUTPUT IS PRINTED SIMPLEX.

Explanation: The Medium Modification Control (MMC) structured field requested duplexing, but the duplex paper path has been disabled at the printer. The MMC structured field is contained in the form definition.

System Action: PSF continues processing, printing the data set simplex.

User Response: If simplex output is not acceptable, submit the print request to a printer that has duplexing available, or ensure that the duplex paper path is enabled on the original printer before resubmitting the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS258I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: *structured field* STRUCTURED FIELD IS NOT ALLOWED BETWEEN OBJECTS.

Explanation: The structured field identified in this message is not allowed at the point in the input data stream or resource at which it was found.

System Action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. If the structured fields are in the correct order, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS259I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE X-DIRECTION AND Y-DIRECTION L-UNITS PER UNIT BASE VALUES SPECIFIED IN STRUCTURED FIELD *structured field* DO NOT MATCH.

Explanation: The X-direction and Y-direction L-units per Unit Base values in the structured field identified in the message are not identical.

System Action: PSF stops processing the current page and issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If

you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

**APS260I THE OBJECT SPECIFIED WITH THE
structured field STRUCTURED FIELD IS
NOT SUPPORTED ON THIS PRINTER.**

Explanation: PSF has encountered a valid AFP object that is not supported by the printer. The object is identified either by its Begin structured field, or by an Invoke structured field such as Include Page Overlay (IPO).

System Action: PSF ignores the object and continues processing the current page or overlay.

User Response: To print the object type indicated in the message, submit the print job to a printer that supports the object type. For more information about what object types are supported by the different AFP printers, refer to *Advanced Function Presentation: Printer Information*.

System Programmer Response: Delete the unsupported object type from the separator page data set for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the separator page data set contained the unsupported object type. Inform your system programmer that this error occurred.

Problem Determination: None.

**APS261I DATA IN AN INPUT RECORD OR
RESOURCE IS INVALID: STRUCTURED
FIELD structured field CONTAINED A
CODED-FONT-LOCAL-IDENTIFIER
VALUE THAT WAS USED IN A
PREVIOUS FONT MAPPING
STRUCTURED FIELD.**

Explanation: One or more font-mapping structured

fields in the same active environment group or object environment group used the same coded font local identifier for different coded fonts. The Map Coded Font (MCF) structured field that attempted to use the already mapped coded font local identifier is identified in the message. The MCF structured field can be in the MO:DCA print data set, an overlay, or a page definition.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issued a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you were printing MO:DCA data or an overlay and you created the structured fields in the object containing the error, check the Coded Font Local Identifiers in the MCF structured field for duplicates. If the MCF structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data using a page definition, and if you created the structured fields for the page definition, check the Coded Font Local Identifiers in the MCF structured field for duplicates. If the MCF structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS262I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: STRUCTURED FIELD *structured field* CONTAINS AN INVALID ROTATION VALUE.

Explanation: The rotation value specified in the named structured field was invalid.

System Action: PSF stops processing the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS263I AN ATTEMPT WAS MADE TO INCLUDE PAGE OVERLAY 01xxxxxx BUT EITHER THIS PAGE OVERLAY IS NOT NAMED IN AN MPO STRUCTURED FIELD OR THE MPO INDICATES THAT THIS OVERLAY IS FOR ANNOTATION ONLY.

Explanation: An Include Page Overlay (IPO) structured field names a page overlay, but the overlay was not previously defined in the Map Page Overlay (MPO) structured field, or the MPO indicates that the overlay is for annotation only, and is not to be used for printing. The MPO structured field is in the Active Environment Group (AEG) of the page that contains the IPO. The MPO may be in the AEG of the MO:DCA data or a page definition.

System Action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred.

User Response: If the MPO indicates that this overlay is for annotation only, another MPO structured field must be created in the AEG that defines the page overlay. If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS264I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A CODED FONT NAMED IN AN OBJECT ENVIRONMENT GROUP IS NOT NAMED IN THE ACTIVE ENVIRONMENT GROUP OF THE PAGE OR RESOURCE.

Explanation: A Map Coded Font (MCF) structured field in an object environment group names a coded font, but that coded font is not defined in the MCF structured field in the active environment group of the page or resource containing the object environment group.

System Action: If the object is in a page, PSF terminates the page and continues processing the data set. If the object is in a resource, PSF stops processing and printing the data set.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS265I THE FORMS DEFINITION OR THE JCL COPIES PARAMETER SPECIFIED MULTIPLE COPY SUBGROUPS, BUT THE PRINTER DOES NOT SUPPORT THIS FUNCTION.

Explanation: More than one copy subgroup was requested for this print job, but the printer selected to print the job does not support this function. The multiple copy subgroups were requested either by the JCL COPIES parameter or by the repeating groups referenced by the Medium Copy Count (MCC) structured field in the form definition.

System Action: PSF stops processing and printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you require multiple copy subgroups, resubmit the print request to a printer that supports the function.

If you do not require multiple copy subgroups and if you specified the form definition or the COPIES parameter in the print job for the JCL, do one of the following:

- Specify a form definition that does not request multiple copy subgroups, and resubmit the print request.
- Remove the request for multiple copy subgroups from the form definition, and resubmit the print request with the same form definition specified in your JCL.
- Change the COPIES copy group parameter specification in your JCL, and resubmit the print request.

If you do not require multiple copy subgroups, and if you did not specify the form definition or the COPIES parameter in the JCL for the print job, resubmit the print request, specifying either a COPIES subgroup parameter of 1 or a form definition that does not request multiple copy subgroups in the JCL for your print job.

System Programmer Response: If the error involved separator pages or the message data set, change the form definition named in the PRINTDEV statement that is used for that type of output so that it does not request multiple copy subgroups.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS267I EITHER NO ENVIRONMENT GROUP WAS SPECIFIED FOR THE PAGE, OR AN ERROR OCCURRED IN THE ENVIRONMENT GROUP.

Explanation: Either no environment group was specified, or an error occurred in one of the structured fields in the environment group. If an environment group was present but contained an error, a previous PSF message identifies the error. The environment group causing this error may be in an overlay, a page definition, or the MO:DCA data.

System Action: PSF stops processing the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 17, 19.

APS268I AN ENTRY IN AN MCF STRUCTURED FIELD DOES NOT CONTAIN A FONT CHARACTER SET REFERENCE.

Explanation: One of the repeating groups in a Map Coded Font Format 2 (MCF-2) structured field specifies the code page information but not the font character set. This error was detected during the processing of a GOCA object within a page or overlay resource.

System Action: PSF continues processing. The repeating group that contains the error is ignored.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS269I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A VALUE OF ZERO WAS SPECIFIED AS THE L-UNITS PER UNIT BASE IN THE *structured field name* STRUCTURED FIELD.

Explanation: Several structured fields specify an L-units per unit base value: Medium Descriptor (MDD), Page Descriptor (PGD), Presentation Text Descriptor (PTD-2), Object Area Descriptor (OBD), Graphics Data Descriptor (GDD), Image Data Descriptor (IDD), Barcode Data Descriptor (BDD), and Image Input Descriptor (IID). The PSF arithmetic equation and a value of zero can result in an abend (divide by zero error). The value of zero is invalid.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program

was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 13, 17, 19.

APS270I DATA IN A PAGEDEF RESOURCE IS MISSING: THE PAGEDEF DOES NOT CONTAIN ANY DATA MAPS.

Explanation: The page definition did not specify any data maps, but a data map is required in order to print a data set containing line data.

System Action: The page definition is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS271I DATA IN A FORMDEF RESOURCE IS INVALID: THE DUPLEX SPECIFICATION IN THE PGP STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The duplex specification value in the Page Position (PGP) structured field is not acceptable. The PGP structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS272I DATA IN A FORMDEF RESOURCE IS INVALID: THE PGP STRUCTURED FIELD DOES NOT CONTAIN A PAGE ORIGIN POSITION FOR THE FRONT SIDE OF A SHEET.

Explanation: The Page Position format-2 (PGP) structured field must contain a repeating group that defines the Page Origin Position for the front side. This value will also be used for the back side of a duplex sheet, unless the PGP structured field contains a repeating group that specifies the Page Origin Position for the back side of the sheet. The PGP structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS273I DATA IN A FORMDEF RESOURCE IS INVALID: THE CONSTANT FORMS CONTROL VALUE IN THE MMC STRUCTURED FIELD ID *identifier* IS NOT ACCEPTABLE.

Explanation: The Constant Forms Control modification in the Medium Modification Control (MMC) structured field contained an unsupported value. The MMC structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS274I DATA IN A FORMDEF RESOURCE IS INVALID: THE MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDE CONFLICTING CONSTANT FORMS CONTROL VALUES FOR THE SAME SIDE OF THE SHEET.

Explanation: All Medium Modification Control (MMC) structured fields referenced by the Medium Copy Count (MCC) structured field must use the same Constant Forms Control value for the same side of a sheet. The MMC and MCC structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS275I DATA IN A FORMDEF RESOURCE IS INVALID: MEDIUM MAP *medium map name* SPECIFIES ONLY CONSTANT DATA FOR A PAGE.

Explanation: An attempt was made to process a page by use of a medium map that does not place any data on the sheet. The following combinations of controls can cause this message to be issued:

- Constant Forms Control for both the front and back sides of a duplexed sheet.
- Constant Forms Control for the front side of a simplex sheet.
- Basic N_UP requested, Constant Forms Control for the front side of a duplexed sheet, and the repeating group of the Page Position (PGP) Format 2 structured field for the back side of the sheet specifies a *PgFlgs* parameter value requesting no variable page data.
- Basic N_UP requested, Constant Forms Control for the back side of a duplexed sheet, and the repeating group of the PGP structured field for the front side of the sheet specifies a *PgFlgs* parameter value requesting no variable page data.
- Enhanced N_UP requested and all of the repeating groups of the PGP structured field specify a *PgFlgs* parameter value requesting no variable page data.

Another Medium Map must be invoked so that the remaining line or page data can be processed. The Constant Forms Control and the simplex/duplex requests are in the Medium Modification Control (MMC) structured field. To request basic N_UP, specify default page placement in the PGP structured field and specify N_UP in the MMC structured field. To request enhanced N_UP, specify explicit page placement in the PGP structured field and specify N_UP in the MMC structured field. The MMC and PGP structured fields are in the form definition.

System Action: PSF cannot print the current data set. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that

program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS276I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BEGIN SEGMENT INTRODUCER IS MISSING IN THE FIRST GAD STRUCTURED FIELD IN A GRAPHICS OBJECT.

Explanation: The first Graphics Data (GAD) structured field in a graphics object does not contain a Begin Segment Introducer. PSF examines the Begin Segment Introducer of the first GAD structured field in a graphics object, because some graphics applications add a comment record that must be removed before the graphics data is passed to the printer. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. If the graphics object is part of another resource, PSF stops processing and printing the data set.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS2771 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE GDD STRUCTURED FIELD IN A GRAPHICS OBJECT CONTAINS AN INVALID SUBSET ORDER OR SUBSET VERSION VALUE.

Explanation: The values specified in either the Subset Order or Subset Version field of the GDD are invalid. The GDD structured field is in a graphics object. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. If the object is part of another resource, PSF stops processing and printing the data set.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS2781 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE OUTPUT OPTION SPECIFIED IN THE *structured field name* STRUCTURED FIELD IS INVALID OR UNSUPPORTED.

Explanation: The structured field in error contained an invalid Output Option value, or the printer does not support the Output Option value. The structured field could be contained in a bar code object, graphics object, or image object, or it was specified on an IOB structured field. The bar code object, graphics object, image object, or IOB could be contained in an overlay or a MO:DCA page, or it could be imbedded in line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. If the structured field was part of a resource, PSF stops processing and printing the data set.

User Response: If you created the structured fields for the object, correct the error and resubmit the print request. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS2791 A REQUESTED FONT RESOURCE IS NOT CURRENTLY RESIDENT IN THE PRINTER, OR THE CORRECT PRINTER FONT CARD IS NOT INSTALLED. THE HOST VERSION OF THE FONT IS NOT DOWNLOADABLE, SINCE IT DOES NOT CONTAIN RASTER DATA.

Explanation: Some printers may have user-installable fonts on cards or some other media. To support formatting output on the host system for printing with

these restructured fonts, the host font libraries may contain font resources with only formatting reference information, but no downloadable font patterns. This message may indicate that the referenced fonts were not installed in the printer when this data set was printed.

Bytes 17-19 of the Font Control (FNC) structured field contain a pattern data count of 0. This value represents the total number of data bytes in the font character set. The FNC structured field is in the font character set.

System Action: PSF cannot print the current page, but it attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User Response: If the print request was submitted to a 4028 Printer, verify that the correct font cartridge was loaded in the printer when the job was processed. If it was not, resubmit the print request when the correct cartridge is loaded.

If the correct cartridge was loaded, or if you were printing on any other type of AFP printer, notify your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. Run APSRMARK and mark the font as PUBLIC, so that the data set can be printed with the printer-resident font. If the font has been marked as PUBLIC, verify that the marking is correct.

Ensure that both the code page and character set of the font are marked PUBLIC. In the font data definition (FONTDD) parameter in the PSF PRINTDEV statement, ensure that the font libraries containing marked resources are specified first in the library concatenation order.

Ensure that requested font or symbol set is mapped to a valid GRID. If the current entry seems to be valid, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 13, 17, 19.

APS280I THE RESOLUTION OF THE FONT DOES NOT AGREE WITH THE RESOLUTION OF THE DEVICE.

Explanation: Either the font resolution is incompatible with the device resolution or bytes 4–9, or bytes 22–27 were specified incorrectly in a Font Control (FNC) structured field. The FNC structured field is in the font character set.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: Determine whether the font required any preprocessing to match the resolution of the device; if so, ensure that this was done. For more information about converting 240-pel fonts to 300-pel fonts, refer to *PSF for OS/390: Customization*. If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: Does the PRINTDEV of the printer specify the correct font library for the resolution of the device? If not, correct it.

If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 13, 17, 19.

AP2811 THE VERTICAL POINT SIZE VALUE IN THE FND STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The vertical point size value in the FND structured field is either invalid or unsupported by this printer. PSF supports only values between 40 and 720 inclusive. The FND structured field is in the font character set.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

AP2821 INVALID CHARACTER PATTERN ADDRESSES IN THE FNM REPEATING GROUPS.

Explanation: Bytes 4–7 of the Font Patterns Map (FNM) structured field contain the pattern data address. This value represents the offset in bytes of the start of the raster pattern for a character.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer. If the font is a metric-only font supplied by IBM, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. Run APSRMARK and mark the font as PUBLIC, to allow printing with the printer-resident font. If the font has been marked as PUBLIC, verify that the marking is correct.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 13, 17, 19.

AP2831 A FORMDEF RESOURCE REQUESTED N_UP n, BUT IT IS NOT SUPPORTED BY THIS PRINTER. THE OUTPUT IS PRINTED N_UP n.

Explanation: The Medium Modification Control (MMC) structured field requested N_UP *n*, but the device does not support N_UP printing.

System Action: PSF continues printing the output in the highest N_UP supported by the printer.

User Response: If the output is not acceptable, submit the print request to a printer that supports N_UP printing. If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference*. If the MMC structured field has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that

program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. Verify that the printer microcode level supports N_UP printing. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS284I A FORMDEF RESOURCE REQUESTED DUPLEX N_UP *n*, BUT THE COMBINATION IS NOT SUPPORTED BY THIS PRINTER. THE OUTPUT IS PRINTED SIMPLEX N_UP *n*.

Explanation: The Medium Modification Control (MMC) structured field requested N_UP *n* and duplexing, but the combination is not supported by this printer.

System Action: PSF continues printing the output in simplex and the highest N_UP supported by the printer.

User Response: If the output is not acceptable, submit the print request to a printer that supports N_UP printing and duplex. If the printer supports duplexing and N_UP, and if you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference*. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. Verify that the printer microcode level supports N_UP printing. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS285I DATA IN A FORMDEF RESOURCE IS INVALID: THE N_UP VALUE IN THE MMC STRUCTURED FIELD, ID *identifier*, IS NOT ACCEPTABLE.

Explanation: The Medium Modification Control (MMC) structured field specifies an N_UP value of zero.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MMC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS286I DATA IN A FORMDEF RESOURCE IS INVALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES CONFLICTING N_UP VALUES.

Explanation: The Medium Copy Count (MCC) structured field refers to one or more Medium Modification Control (MMC) structured fields, which

include requests for different N_UP values. You cannot request different N_UP values within the same medium map. The MCC and MMC structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS2871 DATA IN A FORMDEF RESOURCE IS INVALID: THE MEDIUM MAP CONTAINS A PMC STRUCTURED FIELD, BUT THE PRINTER DOES NOT SUPPORT PAGE OVERLAYS.

Explanation: The Page Modification Control (PMC) structured field specifies page overlays to be used in conjunction with N_UP processing. This error occurs when PSF finds a PMC structured field in a medium map, and the device does not support page overlays. PSF detected this error while processing a page.

System Action: PSF ignores the page overlay(s) and continues processing.

User Response: Redirect the output to a printer that supports page overlays.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 3, 8, 13, 17.

APS2881 PRINT LABELING WAS SPECIFIED WITH EITHER N_UP OR CUT-SHEET EMULATION. THIS COMBINATION IS NOT SUPPORTED.

Explanation: The print labeling function has been requested, and either medium map specifies an N_UP value greater than one, or the Cut-Sheet Emulation function is being used with the current medium map. Print labeling cannot be used with a function that requests placing multiple logical pages on a side of a sheet. PSF detected this error while processing a page.

System Action: PSF stops processing and printing the data set.

User Response: Do not request print labeling in combination with either N_UP printing or Cut-Sheet Emulation printing in the same job. Submit the print job again.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS2891 DATA IN AN INPUT RECORD OR RESOURCE INVALID: THE FONT SCALING SIZE VALUE SPECIFIED IN AN MCF STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The value specified for either the font vertical scale factor, the horizontal scale factor, or the font width is not within the acceptable range of 0 to 32767.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS2901 THE SELECTABLE MEDIUM MODIFICATION (*identifier*) SPECIFIED IN THE MMC STRUCTURED FIELD IS NOT CURRENTLY AVAILABLE AT THE DEVICE.

Explanation: The Selectable Medium Modification ID in the Medium Modification Control (MMC) structured field contains a Modification ID not currently available at the printer, or the printer does not support medium modifications. The MMC structured field is in the form definition.

System Action: PSF stops processing and printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: To receive the printed output with the medium modification identified, take any one of the following actions:

- Specify the FORMS keyword on the OUTPUT statement of the JCL with a parameter as determined by local procedures.
- Request to the operator that the identified medium modifications be made available on the printer.
- Submit the job to a printer containing the identified medium modification.

If the medium modification identified is not what you wanted, take either of the following actions:

- Specify a form definition containing a different medium modification, or none at all.
- Modify the form definition to require a different medium modification ID, or remove the use of the medium modification ID.

System Programmer Response: If this message displays on the operator's console, use the information provided in the Operator Response section. If the Medium Modification is not what you wanted, modify the PSF writer procedure as described in the User Response section.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the Medium Modification ID is defined for a separator page or the message data set in the PSF startup procedure. If the Medium Modification ID cannot be made available on the printer at all times, consult your system programmer.

To determine how to make the determined Medium Modification ID available for use, refer to the operator's manual for your printer or your post-processing device.

Problem Determination: None.

APS2911 DATA IN A FORMDEF RESOURCE IS INVALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES SELECTABLE MEDIUM MODIFICATION CONTROL VALUES.

Explanation: Multiple MMC structured fields referenced by the MCC structured field do not use the exact same set of Selectable Medium Modification values.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data*

Reference. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS292I A FORMDEF RESOURCE REQUESTED ENHANCED N_UP, BUT IT IS NOT SUPPORTED BY THIS PRINTER.

Explanation: Enhanced N_UP is not supported due to one of the following:

- The Page Position (PGP) Format 2 structured field requested enhanced N_UP, but N_UP is not supported by this printer.
- The printer supports enhanced N_UP but was attached through Distributed Print Facility (DPF) and enhanced N_UP is not supported through DPF.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: Resubmit the job to a printer that supports enhanced N_UP and that is not attached through DPF; or, if you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. Verify that the printer microcode level supports enhanced N_UP printing and that the printer is not attached through DPF. If the resource containing the error is defined for the separator pages or the message data set, or as the default resource for user print data sets in the PSF startup procedure, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS293I DATA IN A FORMDEF RESOURCE IS INVALID: ENHANCED N_UP WAS REQUESTED, BUT THE NUMBER OF REPEATING GROUPS IN THE PGP STRUCTURED FIELD DOES NOT MATCH THE N_UP VALUE SPECIFIED IN THE MEDIUM MAP *medium map name*.

Explanation: When enhanced N_UP is requested, the number of repeating groups in the Page Position (PGP) Format 2 structured field must match the N_UP value multiplied by the number of sides of the sheet to be printed. If simplex is requested, the number of repeating groups in the PGP structured field must be equal to the value specified in the N_UP request. If duplex is requested, the number of repeating groups in the PGP structured field must be equal to twice the value specified in the N_UP request. To request enhanced N_UP, specify explicit page placement in the PGP structured field and specify N_UP in the Medium Modification Control (MMC) structured field. The simplex/duplex request is in the MMC structured field. The MMC and PGP structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues

additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS294I DATA IN A FORMDEF RESOURCE IS INVALID: THE SHEET SIDE PARAMETER VALUE *value* SPECIFIED IN THE PGP STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: A medium map or document environment group in the current form definition contains a Page Position (PGP) Format 2 structured field with a repeating group that contains an invalid value in the sheet side (*SHside*) parameter. For example:

- The *SHside* parameter specifies a value other than 0 or 1 for the sheet side.
- The *SHside* parameter specifies a value greater than 4 for the partition number.

The PGP structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

SF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS295I DATA IN A FORMDEF RESOURCE IS INVALID: THE PGP STRUCTURED FIELD SPECIFIES BOTH DEFAULT AND EXPLICIT PAGE PLACEMENT.

Explanation: A medium map or document environment group in the current form definition contains a Page Position (PGP) Format 2 structured field that requests both default page placement and explicit page placement in separate, repeating groups. Default page placement and explicit page placement are requested in the sheet side (*SHside*) parameter of the PGP structured field. The PGP structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues

additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS296I DATA IN A FORMDEF RESOURCE IS INVALID: THE PGP STRUCTURED FIELD CONTAINS AN INVALID ROTATION, rotation.

Explanation: A medium map or document environment group in the current form definition contains a Page Position (PGP) Format 2 structured field with a repeating group that contains an invalid value in the page rotation (*PGorient*) parameter. The PGP structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured

field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS297I DATA IN A FORMDEF RESOURCE IS INVALID: THE SHEET SIDE PARAMETER VALUE OF THE PGP STRUCTURED FIELD DOES NOT MATCH THE SIMPLEX/DUPLEX OR N_UP SPECIFICATION IN THE MEDIUM MAP medium map name.

Explanation: A medium map or document environment group in the current form definition contains a Page Position (PGP) Format 2 structured field with a repeating group that contains an invalid value in the sheet side (*SHside*) parameter. For example:

- The *SHside* parameter value specifies that a page should be placed on the back side of the sheet, but the Medium Modification Control (MMC) structured field specifies simplex.
- The *SHside* parameter value specifies that a page should be placed in partition number 3, but the MMC specifies 2-up format.

The MMC and PGP structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS298I A FORMDEF RESOURCE REQUESTED ENHANCED N_UP AND DUPLEXING, BUT DUPLEXING IS NOT SUPPORTED BY THIS PRINTER OR BY THE INPUT BIN THAT WAS BEING USED.

Explanation: When enhanced N_UP and duplex are requested, but the printer or the selected input bin does not support duplex, PSF cannot process the data set. The reason is that with enhanced N_UP, the Page Position (PGP) Format 2 structured field specifies the partition number and sheet side for each page placed on a sheet. If duplex is requested, PSF will not be able to place pages in the requested partitions on the back side of the sheets. To request enhanced N_UP, specify explicit page placement in the PGP structured field and specify N_UP in the Medium Modification Control (MMC) structured field. The duplex request is in the MMC structured field. The MMC and PGP structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.

- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: Resubmit the job to a printer that supports enhanced N_UP and duplexing; or, if you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS299I AN IM IMAGE OBJECT CONTAINS INVALID OR INCORRECT DATA. THE IM IMAGE OBJECT CANNOT BE CONVERTED TO AN IO IMAGE OBJECT.

Explanation: This message is issued when PSF converts an IM image object to an IO image object and one of the image size values is zero or greater than X'7FFF'.

For a simple IM image object, this message is issued if either the XSize or the YSize parameter value of the IID structured field is zero or greater than X'7FFF'.

For a complex IM image object, this message is issued if one of the XCSIZE, YCSIZE, SFILSIZE, or YFILSIZE parameter values of the ICP structured field is zero or greater than X'7FFF'.

System Action: PSF stops processing the image object and issues additional messages identifying the processing environment in which the error occurred. PSF sends the part of the image that was successfully

processed, if any, to the printer. PSF then continues processing the current data set.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer that this error occurred.

Problem Determination: Items 13, 17, 19.

APS300I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NEXT LINE DESCRIPTOR IF SKIPPING PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* IS 0.

Explanation: The current record contains a control character that indicates a skip to a Line Descriptor (LND) structured field with a specific channel control. However, the LND structured field identified in this message had a value of 0 in its Next Line Descriptor IF SKIPPING parameter. The LND structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the

object container that contains the error, verify that the input to that program was valid. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS301I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NEXT LINE DESCRIPTOR IF SKIPPING PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* IS *parameter value*. THIS EXCEEDS THE LNC STRUCTURED FIELD COUNT VALUE OF *parameter value*.

Explanation: In the Line Descriptor (LND) structured field identified in this message, the value of the next LND IF SKIPPING parameter is greater than the total number of LND structured fields in the page definition.

System Action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS3061 INSUFFICIENT VIRTUAL STORAGE PREVENTED FURTHER PROCESSING. INCREASE REGION SIZE, AND RESUBMIT THE PRINT REQUEST.

Explanation: PSF was unable to acquire storage to create simulated Invoke Medium Map structured fields, Invoke Data Map structured fields, or both, during conditional processing.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: The size of the REGION parameter used for the print request should be increased. If the print request is processing in direct-printing mode, this region size is for the job or step containing the request. If the data set containing the error was spooled, increase the REGION parameter used in the PSF startup procedure.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS3071 DATA IN A PAGEDEF RESOURCE IS INVALID: IN LND STRUCTURED FIELD NUMBER *structured field number*, THE REUSE RECORD FLAG WAS SET BUT THE NEXT LINE DESCRIPTOR IF REUSING DATA PARAMETER WAS 0.

Explanation: In the Line Descriptor (LND) structured field identified in this message, the Reuse Record flag had a value of B'1', indicating that the line data being processed in this LND structured field should be reused and processed. The Next Line Descriptor If Reusing Data parameter should point to the LND structured field used to continue processing. However, the value for the Reusing Data parameter was X'0000', indicating the end of the chain. The LND structured field is contained in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program

to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS3081 THE PRINTABLE AREA IS TOO SMALL TO PRINT MESSAGES WITH THE FONT SPECIFIED.

Explanation: A check was made to determine whether the messages would fit in the printable area when printed in the specified font on the paper size currently in the printer. Either fewer than 10 characters would fit on a line, or PSF calculated an invalid value for the maximum baseline position. The values for the maximum baseline position are obtained from the printer; an invalid value could indicate a microcode error that would cause PSF not to print messages. A value of fewer than 10 characters per line is too small and would also cause PSF not to print messages.

System Action: The messages were not printed.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: If messages are to be printed, select a form, a logical page size, and a font with a character increment that allows messages to fit in the printable area. The form definition or page definition selected to process messages may be incorrect, or the font selected may be too large for the page size specified in the form definition or the page definition.

To determine the number of characters that fit on a line, determine the minimum width of either the logical page or the printable area on the physical page. From it, subtract the maximum inline position of the Line Descriptor (LND) structured field, and the form definition offset, plus twice the horizontal adjustment. Divide the result by the character increment for the font.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 27.

APS309I DATA IN A PAGEDEF RESOURCE IS INVALID: THE REPEATING GROUP LENGTH PARAMETER VALUE IN CCP STRUCTURED FIELD CCP identifier IS INVALID.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. Either the Length of Repeating Groups parameter is zero, or the length of the repeating group data is not a multiple of the size specified in that parameter. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: Determine whether the structured field is correct. For more information about the structured field, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field is incorrect and was not created by an IBM licensed program, correct the error and resubmit the print request. If the structured field is incorrect and was created by an IBM licensed program, notify your system programmer. If the structured field is correct, the error could be a PSF logic error. In this case, notify your system programmer of this error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS310I DATA IN A PAGEDEF RESOURCE IS INVALID: THE COUNT PARAMETER VALUE IN THE LNC STRUCTURED FIELD WAS 0.

Explanation: The Count parameter in the Line Descriptor Count (LNC) structured field in the data map of the page definition had a value of zero.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function*

Presentation: Programming Guide and Line Data Reference and Mixed Object Document Content Architecture Reference for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS312I DATA IN A PAGEDEF RESOURCE IS INVALID: THE SIZE PARAMETER VALUE IN THE FDS STRUCTURED FIELD WAS 0.

Explanation: The Size parameter in the Fixed Data Size (FDS) structured field has a value of 0. The FDS structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference and Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS314I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NUMBER OF REPEATING GROUPS PARAMETER VALUE IN CCP STRUCTURED FIELD *CCP identifier* IS INVALID.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. Either the Number of Repeating Groups parameter in the CCP structured field is zero, or the number of repeating groups does not match the number specified in the parameter. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS315I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NEXT LINE DESCRIPTOR IF SPACING PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* IS 0.

Explanation: The logical-record control character indicates that the Next Line Descriptor If Spacing parameter should be followed. However, in the Line Descriptor (LND) structured field identified in this message, the Next Line Descriptor If Spacing parameter

value was zero. The LND structured field is contained in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS316I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NEXT LINE DESCRIPTOR IF SPACING PARAMETER IN LND STRUCTURED FIELD NUMBER *structured field number* IS *parameter value*. THIS VALUE IS TOO LARGE.

Explanation: The logical record control character indicates that the Next Line Descriptor If Spacing parameter in the Line Descriptor (LND) structured field should be followed. However, in the Line Descriptor (LND) structured field identified in this message, the Next Line Descriptor If Spacing parameter value was greater than the total number of line descriptors in the data map. The LND structured field is contained in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the

structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

AP3171 DATA IN A PAGEDEF RESOURCE IS INVALID: THE LENGTH OF COMPARISON STRING PARAMETER VALUE IN CCP STRUCTURED FIELD CCP identifier IS INVALID.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. Either the Length of Comparison String parameter is zero, or the length of the comparison string data does not match the length of a repeating group minus the fixed lengths of the remaining fields of the repeating group. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

AP3191 DATA IN A PAGEDEF RESOURCE IS INVALID: SUPPRESSION TOKEN NAME = 'token name' IS INVALID IN LND STRUCTURED FIELD NUMBER = structured field number.

Explanation: The Suppression Token Name parameter in the Line Descriptor (LND) structured field in the page definition has a null value. A null value is any value that contains X'FFFF' in the first two bytes.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

AP3201 DATA IN A PAGEDEF RESOURCE IS INVALID: THE IDENTIFIER identifier1 SPECIFIED IN THE NEXT CCP IDENTIFIER PARAMETER IN CCP STRUCTURED FIELD identifier2 WAS NOT FOUND.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. The Next Conditional Processing Control Identifier parameter in

the CCP structured field specifies the identifier used to find a CCP if the CCP structured fields are chained. The identifier must match a value specified in the CCP Identifier parameter of another CCP in the same page definition. The identifier specified in the Next CCP Identifier parameter did not match the CCP Identifier of any CCPs in the page definition. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

AP3211 DATA IN A PAGEDEF RESOURCE IS INVALID: THE TIMING OF ACTION PARAMETER VALUE *value* IN CCP STRUCTURED FIELD *CCP identifier* IS INVALID.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. The Timing of Action parameter in one of the repeating groups of the CCP structured field contains an invalid value. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the

structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

AP3221 DATA IN A PAGEDEF RESOURCE IS INVALID: THE MEDIUM MAP ACTION PARAMETER VALUE *value* IN CCP STRUCTURED FIELD *CCP identifier* IS INVALID.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. The Medium Map Action parameter in one of the repeating groups of the CCP structured field contains an invalid value. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error

messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS323I DATA IN A PAGEDEF RESOURCE IS INVALID: THE DATA MAP ACTION PARAMETER VALUE *value* IN CCP STRUCTURED FIELD *CCP identifier* IS INVALID.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. The Data Map Action parameter in one of the repeating groups of the CCP structured field contains an invalid value. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS324I DATA IN A PAGEDEF RESOURCE IS INVALID: THE COMPARISON PARAMETER VALUE *value* IN CCP STRUCTURED FIELD *CCP identifier* IS INVALID.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. The Comparison parameter in one of the repeating groups of the CCP structured field contains an invalid value. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS326I DATA IN A PAGEDEF RESOURCE IS INVALID: THE DATA MAP '*data map name*' SPECIFIED IN THE DATA MAP NAME PARAMETER OF CCP STRUCTURED FIELD *CCP identifier* WAS NOT FOUND.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. The Data Map Name parameter in one of the repeating groups of the CCP structured field specifies the token name of a data map used to find a data map in the page definition. The name must match the value specified in the Token Name parameter in one of the Begin Data Map (BDM) structured fields in the current page definition. No data map with name *data map name* was found in the page definition. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the

error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS327I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NEXT LINE DESCRIPTOR IF REUSING DATA PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* WILL CAUSE AN INFINITE LOOP.

Explanation: The Next Line Descriptor If Reusing Data parameter in the Line Descriptor (LND) structured field identified in this message caused an infinite-loop condition. The LND structured field is contained in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS328I DATA IN A FORMDEF RESOURCE IS INVALID: MEDIUM MAP *medium map name* SPECIFIES A CONDITIONAL EJECT TO A PARTITION, BUT THE PARTITION DOES NOT EXIST.

Explanation: The Begin Medium Map (BMM) structured field specified a conditional eject to a partition that does not exist in the Page Position (PGP) Format 2 structured field. The BMM structured field specified either a conditional eject to the next front side partition or a conditional eject to the next back side partition, but the PGP structured field does not contain a repeating group specifying a partition on the requested side. The BMM and PGP structured fields are in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS329I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NEXT LINE DESCRIPTOR IF REUSING DATA PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* IS *parameter value1*. THIS EXCEEDS THE LNC STRUCTURED FIELD COUNT VALUE OF *parameter value2*.

Explanation: The Next Line Descriptor If Reusing Data parameter in the Line Descriptor (LND) structured field identified in this message has an invalid value. The value is greater than the Count parameter in the Line Descriptor Count (LNC) structured field in the current data map. The LNC and LND structured fields are in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS330I DATA IN A PAGEDEF RESOURCE IS INVALID: THE DATA START POSITION PARAMETER VALUE WHEN ADDED TO THE DATA LENGTH PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* EXCEEDS THE FDS STRUCTURED FIELD SIZE PARAMETER VALUE OF *parameter value*.

Explanation: The Use Fixed Data flag in byte 0 in the Line Descriptor (LND) structured field was set to B'1'. This indicates that data from Fixed Data Text (FDX) structured fields is to be added to the data placed within the page by the LND structured field. The FDX and LND structured fields are in the page definition.

The Data Start Position parameter in the LND structured field indicates the offset of the first byte of data. The Data Length parameter specifies how many bytes of FDX are to be placed within the page. This error was caused when these two parameters specified more data than the FDX structured fields contain. The number of bytes of data in the FDX structured fields can be found in the Size parameter of the Fixed Data Size (FDS) structured field.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS3311 A FORMDEF RESOURCE SPECIFIES PAGE ROTATION IN THE PGP STRUCTURED FIELD, BUT PAGE ROTATION IS NOT SUPPORTED BY THE PRINTER. THE PAGE ROTATION IS IGNORED.

Explanation: A medium map or document environment group in the current form definition contains a Page Position (PGP) Format 2 structured field with a repeating group that requests page rotation in the *PGorient* parameter, but the printer does not support page rotation.

System Action: The page rotation is ignored, and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: Submit the job to a printer that supports page rotation; or, if you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS3341 DATA IN A PAGEDEF RESOURCE IS INVALID: THE AMOUNT OF FIXED DATA RECEIVED DID NOT AGREE WITH THE VALUE SPECIFIED IN THE FDS STRUCTURED FIELD SIZE PARAMETER.

Explanation: The Fixed Data Text (FDX) structured field more bytes of data than was specified in the Size parameter of the Fixed Data Size (FDS) structured field. The FDS and FDX structured fields are in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS3351 DATA IN A PAGEDEF RESOURCE IS INVALID: THE MEDIUM MAP 'medium map name' SPECIFIED IN THE MEDIUM MAP NAME PARAMETER OF CCP STRUCTURED FIELD CCP identifier WAS NOT FOUND.

Explanation: The Conditional Processing Control (CCP) structured field has an invalid value. The Medium Map Name parameter in one of the repeating groups of the CCP structured field specifies the token name of a medium map used to find a medium map in the form definition. The name must match the value specified in the Token Name parameter in one of the Begin Medium Map (BMM) structured fields in the current form definition. No medium map with name *medium map name* was found in the form definition. The CCP structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the

structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS3371 DATA IN A PAGEDEF RESOURCE IS INVALID: IN LND STRUCTURED FIELD NUMBER *structured field number*, THE CONDITIONAL PROCESSING FLAG WAS SET BUT THE CONDITIONAL PROCESSING CONTROL IDENTIFIER PARAMETER WAS ZERO.

Explanation: In the Line Descriptor (LND) structured field, the Conditional Processing flag had a value of B'1', indicating that the line data to be processed by this LND structured field is to be compared with a value specified in a Conditional Processing Control (CCP) structured field. The CCP Identifier parameter in the LND structured field is used to find one of the CCP structured fields in the current page definition. This Identifier parameter was set to 0, which is not a valid value if the Conditional Processing flag is on. The LND and CCP structured fields are in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator

pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS3391 DATA IN A PAGEDEF RESOURCE IS INVALID: THE IDENTIFIER *identifier* SPECIFIED IN THE CONDITIONAL PROCESSING CONTROL IDENTIFIER PARAMETER IN LND STRUCTURED FIELD NUMBER *structured field number* WAS NOT FOUND.

Explanation: In the Line Descriptor (LND) structured field, the Conditional Processing flag had a value of B'1', indicating that the line data to be processed by this LND structured field is to be compared with a value specified in a Conditional Processing Control (CCP) structured field. The CCP Identifier parameter in the LND structured field is used to find one of the CCP structured fields in the current page definition. However, the identifier specified in *identifier* does not match the value specified in the CCP Identifier parameter in any of the CCP structured fields in the current page definition. The LND and CCP structured fields are in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error

messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS340I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NEXT LINE DESCRIPTOR IF CONDITIONAL PROCESSING PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* IS *value1*. THIS EXCEEDS THE LNC STRUCTURED FIELD COUNT VALUE OF *value2*.

Explanation: The Next Line Descriptor If Conditional Processing parameter in the Line Descriptor (LND) structured field has an invalid value. The value is greater than the Count parameter in the Line Descriptor Count (LNC) structured field in the current data map. The LNC and LND structured fields are in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS342I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NEXT LINE DESCRIPTOR IF CONDITIONAL PROCESSING PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* WILL CAUSE AN INFINITE LOOP.

Explanation: The Next Line Descriptor If Conditional

Processing parameter in the Line Descriptor (LND) structured field caused an infinite-loop condition. The LND structured fields are in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS343I DATA IN AN INPUT RECORD OR PAGEDEF RESOURCE IS INVALID: AN LND STRUCTURED FIELD THAT USES RELATIVE POSITIONING ATTEMPTED TO PLACE DATA OUTSIDE OF THE LOGICAL PAGE IN THE NEGATIVE Y DIRECTION. THE PRIOR AND CURRENT LND NUMBERS ARE: *structured field number1* AND *structured field number2*.

Explanation: When relative positioning is being used on an LND (or PRINTLINE), the relative position specified for the Y direction can be a negative value. The current LND (*structured field number2*) is trying to position data outside of the logical page using a negative value. The prior LND position (*structured field number1*) defines the baseline position from which the relative offset of the current LND is measured.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content*

Architecture Reference for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS344I DATA IN A PAGEDEF RESOURCE IS INVALID: THE NUMBER OF LND STRUCTURED FIELDS DOES NOT MATCH THE VALUE SPECIFIED IN THE LNC STRUCTURED FIELD.

Explanation: The number of Line Descriptor (LND) structured fields found in a page definition is either greater than or less than the value specified in the Line Descriptor Count (LNC) structured field. The LND and LNC structured fields are in the page definition.

System Action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS345I MESSAGE ID = *message identifier* EXCEEDS MAXIMUM LENGTH. RECORD SEQUENCE NUMBER = *sequence number*.

Explanation: The length of the message text for the message ID is greater than the maximum message length of 1000 bytes.

System Action: The message is printed to the length limit. Processing of the data set continues.

User Response: No response is necessary.

System Programmer Response: If you suspect a PSF logic error, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS346I DATA IN AN INPUT RECORD OR PAGEDEF RESOURCE IS INVALID: A SKIP TO A NONEXISTENT CHANNEL = *channel* ON RECORD NUMBER = *record number* WAS DETECTED WITHIN THE LND STRUCTURED FIELDS. OUTPUT WAS FORCED TO SINGLE SPACING, WHICH MAY CAUSE BLANK PAGES.

Explanation: An attempt was made to skip to a channel not defined in the current data map. The Line Descriptor (LND) structured fields in the page definition are invalid. During scanning, the entire Next Line Descriptor If Skipping parameter could not be followed because the End Page If Skipping flag was set in a LND structured field. This created an infinite loop on the same input record. The LND structured field is in the page definition.

System Action: The record containing the error was forced to single spacing. When forced single spacing occurs, the carriage control character on the record is ignored. The record is treated as if a X'09' machine control character or a X'40' (blank) ANSI control character was specified in the record that caused the error. The record number specified is relative to the input data stream and may be different for multiple transmissions of the data set.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content*

Architecture Reference for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print error messages. Notify your system programmer.

Problem Determination: Items 2, 17, 27.

APS3471 DATA IN A PAGEDEF RESOURCE IS INVALID: A DXD STRUCTURED FIELD CONTAINS AN INVALID PARAMETER VALUE.

Explanation: The Data Map Transmission Subcase Descriptor (DXD) structured field does not contain a value of X'000100FF'. The DXD structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS3481 DATA IN A PAGEDEF RESOURCE IS INVALID: THE NEXT LINE DESCRIPTOR IF SPACING PARAMETER VALUE *value* IN LND STRUCTURED FIELD NUMBER *structured field number* IS INVALID.

Explanation: The logical-record control character had indicated that the Next Line Descriptor If Spacing parameter should be followed. However, in the Line Descriptor (LND) structured field identified by *structured field number*, the Next Line Descriptor If Spacing parameter value was either zero or greater than the total number of Line Descriptors in the data map. The LND structured fields are in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS3501 DATA IN A PAGEDEF RESOURCE IS INVALID: IN LND STRUCTURED FIELD NUMBER *structured field number*, THE SHIFT-OUT CODED FONT LOCAL IDENTIFIER WAS NON-ZERO BUT THE GENERATE FONT CHANGE FLAG WAS NOT SET.

Explanation: In the Line Descriptor (LND) structured field identified in this message, the Shift-out Coded Font Identifier was non-zero. The Generate Font Change flag should be set to indicate that the Primary Coded Font Local Identifier should be used whenever a shift-in code is processed. However, the Generate Font Change flag

had a value of B'0'. The LND structured field is in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS352I BAR CODE GENERATION WAS REQUESTED ON LND STRUCTURED FIELD *structured field number*, BUT THE PRINTER DOES NOT SUPPORT BAR CODE OBJECTS.

Explanation: An LND structured field in a page definition has requested PSF to generate a bar code object from the line data, but the printer does not support bar code objects.

System Action: PSF ignores the request and continues processing the data set.

User Response: To print the data set and have PSF generate bar code objects, submit the print job to a printer that supports bar code objects. For more information about AFP printers that support bar code objects, refer to *Advanced Function Presentation: Printer Information*.

System Programmer Response: If the page definition is for a separator page, the message data set, or the default page definition for the user print data sets defined in the PSF startup procedure, delete the option from the page definition that requests that a bar code be generated.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Notify your system programmer.

Problem Determination: None.

APS353I DATA IN A PAGEDEF RESOURCE IS INVALID: THE DATA LENGTH PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* DOES NOT MATCH THE LENGTH OF COMPARISON STRING PARAMETER VALUE IN CCP STRUCTURED FIELD *CCP identifier*.

Explanation: In the Line Descriptor (LND) structured field, the value of the Data Length parameter is used in identifying the field of the current input record for which Conditional Processing is to be performed. This field is to be compared with the Comparison String specified in the Conditional Processing Control (CCP) structured field. In the data set you submitted, however, the length specified in the Data Length parameter in the LND structured field does not match the length specified in the Length of Comparison String parameter of the CCP structured field. The LND and CCP structured fields are in the page definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS354I DATASET STARTED IN FSA ID=*old fsa id* DID NOT COMPLETE AND WAS RESTARTED FROM A CHECKPOINT IN ANOTHER FSA, ID=*new fsa id*. CONDITIONAL PROCESSING INFORMATION MAY HAVE BEEN LOST, RESULTING IN POSSIBLE INCORRECT MEDIUM MAP OR DATA MAP BEING USED.

Explanation: When a conditional processing data set is restarted from a checkpoint, and the restart is in a different Functional Subsystem Application (FSA), conditional processing information from the page before the checkpoint is not available. Depending on the state of conditional processing at the time of the checkpoint and the information that is no longer available, an incorrect data map or medium map might be used when the data set is restarted. (Note that a different FSA could have been started by stopping and restarting the FSA for the device.)

System Action: PSF usually restarts the data set from a checkpoint, except that the conditional processing environment is reinitialized as though it were the beginning of a new data set.

User Response: Check the output to determine whether an incorrect data map or medium map was used immediately after the restart in the new FSA. If an incorrect data map or medium map was used, resubmit the job in the new FSA, starting from the beginning of the job. If the FSA ID for the FSA in which the data set started is zero, the error may be a logic error. In this case, notify your system programmer of this error.

System Programmer Response: You can use PSF Message Exit APSUX06 to have the system hold data sets that receive this message. This will allow the user to resubmit the data set to be printed from the beginning. For more information on APSUX06, refer to *PSF for OS/390: Customization*. If this message is received, and the old FSA ID is equal to zero, this may be a PSF logic error. In this case, consult your IBM Support Center.

Operator Response: None

Problem Determination: Items 1, 3, 8, 17, 19, 27

APS355I A PAGE OVERLAY WAS REQUESTED IN LND STRUCTURED FIELD *structured field number*, BUT THE PRINTER DOES NOT SUPPORT PAGE OVERLAYS.

Explanation: An overlay has been requested by an LND structured field within the page definition, but the printer does not support page overlays.

System Action: PSF terminates the page and continues processing the data set.

User Response: To print the data set containing the page overlay, submit the print job to a printer that supports page overlays. For more information about AFP printers that support page overlays, refer to *Advanced Function Presentation: Printer Information*.

System Programmer Response: If the page definition is for a separator page, the message data set, or the default page definition for the user print data sets defined in the PSF startup procedure, delete the page overlay from the page definition.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: None.

APS356I DATA IN A PAGEDEF RESOURCE IS INVALID: A PAGE SEGMENT OR OVERLAY WAS REQUESTED IN LND STRUCTURED FIELD *structured field number*, BUT THE INLINE OR BASELINE POSITION VALUES WERE NOT SPECIFIED FOR THE LND.

Explanation: If any resource object-include triplets are specified in the LND structured field, bits 2 and 3 of bytes X'0-1' in the LND structured field must both be set.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS359I AN INLINE MEDIUM MAP WAS ENCOUNTERED IN THE DATA SET BUT INLINE MEDIUM MAPS ARE NOT SUPPORTED.

Explanation: A Begin Medium Map (BMM) structured field was encountered in the data stream after resources for the data set had been processed. PSF does not support inline medium maps between pages. The data set may have been created by a program that creates inline medium maps, but a data set that contains inline medium maps cannot be printed.

System Action: PSF stops processing and printing the data set.

User Response: If you are attempting to print a data set containing inline medium maps, the data set cannot be printed on PSF. If you are not attempting to print a data set with inline medium maps, and if you created the structured fields for the print data set, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS360I AN OUTPUT BIN WAS REQUESTED FOR THE JOB, BUT EITHER THE PRINTER DOES NOT SUPPORT BIN SPECIFICATION OR THE BIN SPECIFIED WAS NOT AVAILABLE. THE PRINTER DEFAULT WAS USED.

Explanation: The output bin specified by the OUTBIN keyword on the JCL OUTPUT statement or in the form definition is not available, or the device does not support the specification of an output bin.

System Action: PSF continues processing, sending paper to the printer default output bin.

User Response: If the output is not acceptable, submit the print request to a printer that supports the specification of an output bin and has the output bin available, or ensure that the bin is enabled on the original printer before resubmitting the print request.

System Programmer Response: Inform your system programmer that this error occurred.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 2, 8, 19.

APS362I SYSTEM ACTION TAKEN: THE ERRORS LISTED OCCURRED DURING THE PROCESSING OF INLINE RESOURCES. PROCESSING OF THE DATA SET WAS TERMINATED.

Explanation: This message is issued in addition to a message describing an error that occurred during the processing of an inline resource. Other error messages issued by PSF describe the precise error condition.

System Action: PSF stops processing and printing the data set.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Problem Determination: Items 2, 17.

APS363I MULTIPLE COPIES OF THE MESSAGE DATA SET WERE REQUESTED, BUT BIN ATTRIBUTES DID NOT MATCH.

Explanation: PSF guarantees that at least the first ten characters of each message will be printed on the message page through a special message formatting routine. If multiple copies of message pages are printed from different input bins, and each input bin being used has different attributes such as paper length, paper width, x-extent, y-extent, x-offset, y-offset, or media type (envelope, manual, or normal), PSF cannot guarantee that the first ten characters of each message will be printed on all copies of the message page.

System Action: The messages were not printed.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: If messages are to be printed, specify a form definition that specifies only a single copy of the message page, or copies from bins with attributes that are the same.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 27.

APS364I THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INDICATES DIFFERENT SELECT INPUT SOURCE VALUES FOR THE FRONT AND BACK SIDES OF A DUPLEX SHEET.

Explanation: The Medium Modification Control (MMC) structured fields referenced by the Medium Copy Count (MCC) structured field repeating groups specify different input source values along with either tumble or normal duplex. This is an attempt to print the front and back sides of a sheet from different input bins.

System Action: The form definition containing the error is not used, and one of the following occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS365I AN ENVELOPE OR MANUAL INPUT BIN WAS REQUESTED, BUT IS NOT AVAILABLE ON THE PRINTER.

Explanation: The Medium Modification Control (MMC) structured field requested an envelope or manual feed bin, but no bins installed on the printer support the requested bin type.

System Action: Processing of the current data set is ended.

User Response: If an envelope or manual bin is desired, submit the print request to a printer that supports the requested bin type. If you want to use the original printer without an envelope or manual bin, and if you created the structured fields for the form definition, do not specify an envelope or manual bin type. For more information about the MMC structured field, refer to *Mixed Object Document Content Architecture Reference*.

If you used a program to create the structured field for the form definition, ensure that the input to that program specifies that you do not want an envelope or manual bin. If you did not request an envelope or manual bin in your form definition, the error may be a PSF logic error; consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS366I DATA IN AN INPUT RECORD OR PAGEDEF RESOURCE IS INVALID: AN LND STRUCTURED FIELD THAT USES RELATIVE POSITIONING CONTAINS AN ORIENTATION THAT IS DIFFERENT THAN THE LAST LND USED FOR PRINTING. THE PRIOR AND CURRENT LND NUMBERS ARE: *structured field number1* AND *structured field number2*.

Explanation: When relative positioning is being used on an LND (or PRINTLINE), the text orientation field of the current LND (*structured field number2*) must match the text orientation of the LND (*structured field number1*) that was last used for positioning data. The prior LND position defines the baseline position from which the relative offset of the current LND is measured.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content*

Architecture Reference for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 27.

APS370I AN OUTLINE FONT WAS SPECIFIED FOR A PRINTER THAT DOES NOT SUPPORT OUTLINE FONTS.

Explanation: A request to use an outline font code page or font character set was made to a printer that does not support outline fonts. PSF detected this error while processing a code page or a font character set.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: Ensure that data sets requiring outline fonts are routed to a printer model or configuration that can process them. Otherwise, do not use outline fonts.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS371I A DOUBLE-BYTE OUTLINE FONT WAS SPECIFIED FOR A PRINTER THAT DOES NOT SUPPORT DOUBLE-BYTE OUTLINE FONTS.

Explanation: A request to use a double-byte outline font code page or a font character set was made to a printer that does not support double-byte outline fonts. PSF detected this error while processing a code page or a font character set.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: Ensure that documents requiring double-byte outline fonts are sent to a printer that can process them. Otherwise, do not use double-byte outline fonts.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS372I DATA IN A FONT RESOURCE IS INVALID: A FONT CHARACTER SET EXTENSION HAS BEEN SPECIFIED FOR A FONT THAT IS NOT A DOUBLE-BYTE OUTLINE FONT.

Explanation: Bit 1 of byte 3 in the Font Control (FNC) structured field indicates that this font character set is an extension of an existing resident double-byte outline font, but the font technology identifier (byte 1 in the FNC structured field) is not X'1E'. PSF detected this error while processing a font character set.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS373I DATA IN A FONT RESOURCE IS INVALID: THE FONT RESOLUTION SPECIFIED IN THE FNC STRUCTURED FIELD IS INVALID.

Explanation: The font resolution specified in bytes 22-27 of the Font Control (FNC) structured field was specified incorrectly. For an outline font, these fields must be zeros. PSF detected this error while processing a font character set.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program

was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS374I THE HOST VERSION OF THE REQUESTED OUTLINE FONT CHARACTER SET IS NOT DOWNLOADABLE BECAUSE IT DOES NOT CONTAIN ANY FONT PATTERN DATA. IT MAY BE A METRIC-ONLY OUTLINE FONT CHARACTER SET.

Explanation: Some printers have optional font features or user-installable fonts on cards or other media. This message may indicate that the referenced font was not installed in the printer when this data set was printed.

To support printing with printer-resident fonts, the host font libraries may contain font resources with formatting information but no downloadable font pattern data. These metric-only font character sets (MOF) are used only to activate printer-resident fonts. Because of missing font data, the character set cannot be downloaded.

The pattern technology specified in byte 1 in the Font Control structured field is X'1E' or X'1F'. Bytes 28-31 in the FNC structured field contain the total number of bytes in the Font Patterns (FNG) structured field.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: Install the font on the printer, change to a font that is either installed or downloadable, or notify your system programmer of this error.

System Programmer Response: If the font character set is a standard IBM-supplied font, it may be a metric-only font. If so, that specific font must be resident in the printer. Verify that the font is resident in the printer being used. For example, double-byte outline (scalable) fonts generally have metric-only fonts on the host system. Double-byte outline resident fonts may be

a separate printer feature. Refer to the printer publications for information on resident fonts.

If the font is resident in the printer, ensure that the character set is marked PUBLIC (by APSRMARK). In the font data definition (FONTDD) parameter in the PSF PRINTDEV statement, ensure that the font libraries containing marked resources are specified first in the library concatenation order. If you use fonts as INLINE or USERLIB resources, verify that they are marked PUBLIC.

If an IBM licensed program was used to create the structured fields for the font containing the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS375I DATA IN A FONT RESOURCE IS INVALID: THE FNN DATA COUNT IN THE FNC STRUCTURED FIELD IS INVALID.

Explanation: The Font Name Map (FNN) Data Count in bytes 36-39 of the Font Control (FNC) structured field is specified incorrectly. PSF detected that this value is less than X'00000002', which is outside of the valid range X'00000002' - X'FFFFFFFF'. PSF detected this error while processing a font character set.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program

was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS376I DATA IN A FONT RESOURCE IS INVALID: THE SPECIFIED FONT DOES NOT CONTAIN REQUIRED OUTLINE FONT EXTENSION INFORMATION.

Explanation: When bit 1 of byte 3 in a Font Control (FNC) structured field indicates that the font character set is an extension of an existing resident double-byte outline font, the font character extension triplet (triplet ID X'6D') must specify the GCSGID of the corresponding resident double-byte outline font. PSF detected this error while processing a font character set.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS377I DATA IN A FONT RESOURCE IS INVALID: THE SPECIFIED OUTLINE FONT CHARACTER SET DOES NOT CONTAIN ANY FNN STRUCTURED FIELDS.

Explanation: No Font Name Map (FNN) structured fields exist for the specified outline font. PSF requires that at least one FNN structured field exist for an outline font. PSF detected this error while processing a font character set.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS378I THE ENCODING SCHEME SPECIFIED IN THE CPD STRUCTURED FIELD DOES NOT MATCH THE ENCODING SCHEME SPECIFIED IN THE MCF STRUCTURED FIELD FOR THE FONT.

Explanation: The font encoding scheme specified in the encoding scheme ID triplet (triplet ID X'27') of the Map Coded Font (MCF) structured field does not match the encoding scheme specified in bytes 42-43 in the

Code Page Descriptor (CPD) structured field for the code page. PSF detected this error while processing a code page.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: The mismatch can be caused by an error in the MCF structured field that referenced the requested font, or by an error in the code page for the requested font. If you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the code page, contact your system programmer. If you created the MCF structured field for the page definition or the MO:DCA data, correct the error and resubmit the print request. See *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the page definition or the MO:DCA data, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 8, 19.

APS380I THE REGISTRATION ID (*registration id*) OF AN OBJECT CONTAINER RESOURCE DOES NOT MATCH THE CORRESPONDING REGISTRATION ID FOR THE INVOKING JCL KEYWORD.

Explanation: An object container resource was requested through a JCL keyword, but the object classification triplet in the begin object container

structured field did not have the corresponding registration ID. For a list of registration IDs and their assumed functions, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the object container resource, ensure that the registration ID corresponds to the keyword used to invoke the resource.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the object container that contains the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS382I DATA IN AN INPUT RECORD OR RESOURCE IS UNSUPPORTED: THE OBJECT CONTAINER STRUCTURE SPECIFIED IN THE BEGIN OBJECT CONTAINER STRUCTURED FIELD SPECIFIES AN UNSUPPORTED DATA FORMAT.

Explanation: Bytes 6-7 of the object classification triplet in the begin object container structured field specify a value other than X'DC00'. PSF supports only object container resources that are carried in MO:DCA containers, do not contain an OEG, and have data carried in OCD structured fields.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the object container resource, ensure that bytes 6-7 of the object classification triplet in the begin object container structured field are X'DC00'. Also, ensure that the object container resource does not have an OEG and that all data is carried in OCD structured fields.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the object container with the error, verify that the input to

that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS383I THE PRESENTATION SYSTEM SETUP ID SPECIFIED IN THE MMC STRUCTURED FIELD (*identifier*) IS NOT CURRENTLY AVAILABLE AT THE DEVICE. THE DATA SET WILL BE HELD BY THE SYSTEM.

Explanation: The Presentation System Setup ID in the Medium Modification Control (MMC) structured field contains a setup ID that is not currently available at the printer, or the printer does not support setup IDs. The MMC structured field is contained in the form definition.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. PSF releases the current data set back to JES and requests that it be held by the system.

User Response: To receive the printed output with the setup ID identified, either:

- Specify the FORMS keyword on the OUTPUT statement of the JCL with a parameter as determined by local procedures; or
- Ask the operator to make available on the printer the identified setup IDs; or
- Submit the job to a printer containing the identified setup ID.

If the setup ID identified is not what you wanted, either:

- Specify a form definition containing a different setup ID or no setup ID, or
- Modify the form definition to require a different presentation system setup ID or remove the use of the presentation system setup ID.

System Programmer Response: If this message appears on the operator's console, use the information provided in the Operator Response section. If the setup ID is not what you wanted, modify the PSF writer procedure as described in the User Response section.

Operator Response: If this message appears on the operator's console, it indicates that the resource containing the setup ID is defined for a separator page

or the message data set in the PSF startup procedure. If the setup ID cannot be made available on your printer at all times, then contact your system programmer.

Refer to the operator's manual for your printer or your post-processing device to determine how to make the determined setup ID available for use.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS384I DATA IN A FORMDEF RESOURCE IS INVALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES CONFLICTING PRESENTATION SYSTEM SETUP ID VALUES.

Explanation: Multiple MMC structured fields referenced by the MCC structured field do not use the exact same set of Presentation System Setup ID values.

System Action: The form definition containing the error is not used, and one of the following occurs:

- PSF will not be started if the form definition containing the error is defined in the PSF startup procedure. The form definition resources defined in the PSF startup procedure are for separator pages, for the message data set, and for the default form definition resource for user print data sets.
- If the error is in a form definition specified on a user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS385I DATA IN A FORMDEF RESOURCE IS INVALID: THE MODIFICATIONS SPECIFIED IN THE MMC STRUCTURED FIELD INCLUDE UNPAIRED X'B4' AND X'B5' KEYWORDS.

Explanation: The X'B4'/X'B5' keywords must be paired in the Medium Modification Control (MMC) structured field if Presentation System Setup IDs are to be specified. This form definition has one or the other keyword but not both, or the keyword pairs are not adjacent with the X'B4' keyword first. The MMC structured field is contained in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- PSF will not be started if the form definition containing the error is defined in the PSF startup procedure. The form definition resources defined in the PSF startup procedure are for separator pages, for the message data set, and for the default form definition resource for user print data sets.
- If the error is in a form definition specified on a user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS3861 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A REQUIRED TRIPLET WITH ID X'4B' WAS MISSING FROM AN IOB STRUCTURED FIELD.

Explanation: The x- or y-axis origin for object content or an object area size (X'4C') triplet was specified on an IOB, but no measurement unit (X'4B') triplet was specified. The structured field is contained in a print data set or overlay.

System Action: PSF terminates the page or overlay containing the structured field in error. PSF attempts to locate the end of the current page and resume processing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you placed the IOB structured field in the print data set or overlay, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If you used a program to place the IOB structured field in the print data set or overlay, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to place the IOB structured field in the print data set or overlay, verify that the input to that program was valid. If it was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS3871 DATA IN AN INPUT RECORD IS INVALID: PARAMETER IN AN IOB STRUCTURED FIELD CONTAINS UNACCEPTABLE DATA.

Explanation: One of the parameters in the Include Object (IOB) structured field is invalid. The object type specified is not supported or is invalid, or the x or y offset of the object area or the rotation value are not explicitly specified when the reference coordinate system is set to X'00'. The IOB structured field is contained in the print data set or an overlay.

System Action: PSF terminates the page or overlay containing the structured field in error. PSF attempts to locate the end of the current page and resume processing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you placed the IOB structured field in the print data set or overlay, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If you used a program to place the IOB structured field in the print data set or overlay, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to place the IOB structured field in the print data set or overlay, verify that the input to that program was valid. If it was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS3881 DATA IN A PAGE SEGMENT IS INVALID: structured field STRUCTURED FIELD IS NOT ALLOWED IN A PAGE SEGMENT INCLUDED WITH AN IOB.

Explanation: Only MO:DCA page segments are allowed to be included with an IOB structured field. MO:DCA page segments cannot contain IM1 images or PTOCA data.

System Action: PSF terminates the page or overlay containing the structured field in error. PSF attempts to locate the end of the current page and resume processing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you placed the IOB structured field in the print data set or overlay, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If you used a program to place the IOB structured field in the print data set or overlay, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to place the IOB structured field in the print data set or overlay, verify that the input to that program was valid. If it was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS389I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE METRIC TECHNOLOGY, THE UNIT BASE, OR THE UNITS PER UNIT BASE FIELD IS INVALID IN THE X'84' TRIPLET ON THE MCF2.

Explanation: The metric technology, the unit base, or the units per unit base value in the X'84' triplet on the MCF2 structured field is invalid.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS390I DATA IN A FORMDEF RESOURCE IS INVALID: THE FONT UNAVAILABLE EXCEPTION CONTINUATION ACTION IS INVALID IN THE X'78' TRIPLET ON THE PFC.

Explanation: A document environment group in the current form definition contains a Presentation Fidelity Control (PFC) structured field with an invalid value specified for the font unavailable continuation action.

System Action: The X'78' triplet on the PFC is ignored and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS391I THE METRIC TECHNOLOGY AND RESOLUTION IN THE FONT DO NOT MATCH THE SPECIFIED VALUES.

Explanation: One of the following has occurred:

- The metric technology and resolution values that are specified in the X'84' triplet on the MCF2 structured field do not match the values in the Font Control (FNC) structured field.
- The RESFMT keyword on the OUTPUT statement or the XTP7FMT field from the Resource-Management Exit (APSUX07) do not match the values in the Font Control (FNC) structured field.

The FNC structured field is in the font character set. These fields are required to match the specified values when the Presentation Fidelity Control (PFC) has the Font Fidelity triplet continuation rule set to "stop presentation". The PFC structured field is specified in the form definition.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the

current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: Determine whether the font required any preprocessing to match the resolution of the device; if so, ensure that this preprocessing was done. For more information about converting 240-pel fonts to 300-pel fonts, refer to *PSF for OS/390: Customization*. If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If the PRINTDEV JCL statement in the PSF startup procedure does not specify the correct font library for the resolution of the printer, correct it.

If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 3, 8, 13, 17, 19.

APS392I DATA IN A FORMDEF RESOURCE IS INVALID: THE SCOPE VALUE IN THE MFC IS INVALID. EITHER DOCUMENT LEVEL OR PRINT FILE LEVEL FINISHING WAS SPECIFIED IN THE MEDIUM MAP OR MEDIUM LEVEL FINISHING WAS SPECIFIED IN THE DEG.

Explanation: Either a document environment group or a medium map in the current form definition contains a Medium Finishing Control (MFC) structured field with an invalid value specified for the scope.

System Action: The MFC is ignored and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS393I THE INPUT BIN SPECIFIED IN THE MMC STRUCTURED FIELD OR ON THE OUTPUT STATEMENT IS AN INSERTER BIN AND IS DISABLED. AN ALTERNATIVE BIN WAS SUBSTITUTED.

Explanation: The Medium Modification Control (MMC) structured field or the output statement requested an input bin that is supported by the printer but is disabled. This bin is an inserter bin. The MMC structured field is contained in a medium map in the form definition. The output statement is in the JCL.

System Action: PSF continues processing, selecting paper from an alternative bin that is not an inserter bin.

User Response: If the output is not acceptable, submit the print request to a printer that has the specified bin available, or ensure that the bin is enabled on the original printer before resubmitting the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS394I THE PSF OBJECT STACK IS ABOUT TO OVERFLOW DUE TO MISSING END STRUCTURED FIELDS.

Explanation: CCM has run out of its object stack area. The cause could be a data stream error. A begin structured field must be followed by a matching end structured field in the data stream. If this requirement is not met, the CCM can run out of its object stack area. A common cause of this problem is missing EDT structured fields.

System Action: PSF terminates the processing and printing of this data set.

User Response: If you created the data stream, each begin structured field in the data stream must be followed by a matching end structured field. Check the data stream to ensure that it meets this requirement. If it does not meet the requirement, correct the data stream. If it does meet the requirement, this error code indicates a logic error. If you believe the error is a logic error, consult your service representative in the IBM Support Center for assistance, or use your electronic link with IBM services.

System Programmer Response: If an IBM licensed program was used to create the data stream with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 1, 2, 8, 13, 19.

APS395I A FORMDEF RESOURCE REQUESTED A MEDIA EJECT CONTROL TO THE NEXT BACK-SIDE AND DUPLEX=NO WAS SPECIFIED ON THE OUTPUT STATEMENT.

Explanation: When a media eject control to the next back-side is specified in a FORMDEF, the DUPLEX=NO keyword on the OUTPUT statement cannot be used to change from duplex (specified in the FORMDEF) to simplex. The reason is that an incompatible request is being made—you cannot eject to the next back-side when simplexing.

The only valid options for the DUPLEX keyword when a media eject control to the next back-side is specified in the FORMDEF are:

- If the FORMDEF requests normal or tumble duplex, you may specify either duplex=normal or duplex=tumble on the output statement.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: Resubmit the job without requesting the DUPLEX keyword on the OUTPUT statement.

System Programmer Response: None.

Operator Response: None.

APS396I DATA IN A FORMDEF RESOURCE IS INVALID: THE OUTPUT BIN SELECTION VALUE IN MMC STRUCTURED FIELD, ID identifier, IS NOT ACCEPTABLE.

Explanation: The Medium Modification Control (MMC) structured field specified an output bin selection value of 0. Values 1 through 65535 are valid. The MMC structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- PSF will not be started if the form definition containing the error is defined in the PSF startup procedure. The form definition resources defined in the PSF startup procedure are for separator pages, for the message data set, and for the default form definition resource for user print data sets.
- If the error is in a form definition specified on a user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS3971 DATA IN A FORMDEF RESOURCE IS INVALID: DIFFERENT OUTPUT BIN VALUES ARE SPECIFIED FOR THE FRONT AND BACK SIDES OF A SHEET IN MEDIUM MAP *medium map.*

Explanation: The Medium Modification Control (MMC) structured fields referenced by the Medium Copy Count (MCC) structured field repeating groups specify different output bin values along with either tumble or normal duplex. The settings attempt to place the front and back sides of a sheet into different output bins. The MMC structured field is in the form definition.

System Action: The form definition containing the error is not used, and one of the following occurs:

- PSF will not be started if the form definition containing the error is defined in the PSF startup procedure. The form definition resources defined in the PSF startup procedure are for separator pages, for the message data set, and for the default form definition resource for user print data sets.
- If the error is in a form definition specified on a user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS3981 DATA IN A FORMDEF RESOURCE IS INVALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MMC STRUCTURED FIELD, ID *identifier*, INCLUDES DUPLICATE CONFLICTING VALUES FOR THE *identifier* KEYWORD.

Explanation: The Medium Modification Control (MMC) structured field contains duplicate conflicting values for the MMC keyword identified in the message text. The MMC structured field is in the form definition.

System Action: PSF issues this message and continues processing, ignoring the duplicate keyword.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the MMC has no errors, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS3991 OUTPUT BIN *bin number* WAS REQUESTED FOR THE JOB, BUT IT WAS NOT AVAILABLE OR THE PRINTER DOES NOT SUPPORT OUTPUT BIN SELECTION. THE DATA SET WILL BE TERMINATED BECAUSE MANDATORY PRINT LABELING IS ENABLED.

Explanation: The OUTBIN keyword on the JCL OUTPUT statement or the output bin selection parameter value in the form definition specified an output bin. Either that bin is not available or the printer does not support output bin specification. Since mandatory print labeling is enabled, the data set cannot be processed.

System Action: This data set will be terminated and returned to JES to be held.

User Response: Users have several options to correct or avoid this error:

- Resubmit the print request to a printer that supports the requested bin number.
- If the bin number was specified on the JCL OUTPUT statement, change the OUTBIN keyword to a bin number that is supported by the printer and resubmit the print request. If the bin number specified by the OUTBIN keyword is supported by the printer, the error may be a PSF logic error.
- If you created the structured fields for the form definition, change the MMC structured field, specifying the correct output bin selection parameter value that is supported by the printer and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC output bin selection parameter is supported by the printer, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.
- Disable mandatory print labeling and resubmit the print request.
- If you print to a printer that does not support output bin specification, remove the output bin specification.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 2, 8, 19.

APS400I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: BYTE 0 OF A SELF-DEFINING FIELD IS INVALID OR UNSUPPORTED IN AN IPD STRUCTURED FIELD.

Explanation: The Image Picture Data (IPD) structured field is made up of self-defining fields. Byte 0 in each self-defining field identifies the type of self-defining field that follows. The value of byte 0 in this self-defining field is not one of the supported values. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS401I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE LENGTH PARAMETER OF AN IMAGE FIELD IS INVALID OR UNSUPPORTED IN AN IPD STRUCTURED FIELD.

Explanation: The value specified in the Length parameter of a self-defining field is invalid or unsupported. The self-defining field is in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content*

Architecture Reference for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS402I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A BEGIN SEGMENT FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: A Begin Segment field is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS403I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN END SEGMENT FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An End Segment field is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS4041 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A BEGIN IMAGE CONTENT FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: A Begin Image Content field is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS4051 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN END IMAGE CONTENT FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An End Image Content field is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may

not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS4061 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN IMAGE SIZE PARAMETER IS MISSING OR OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Size Parameter value is missing or out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a

program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS4071 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE SIZE CANNOT BE DETERMINED.

Explanation: An X- or Y-extent value in the Image Size Parameter is 0, but the size of the image in that direction cannot be detected from the image data. The Image Size Parameter is in an Image Picture Data (IPD) structured field.

If the IM1 image resolution within the IID structured field does not match the printer resolution, PSF will attempt to convert the IM1 image to Image Object Content Architecture (IOCA), if the printer supports IOCA. During this conversion process, IM1 structured fields are converted to IOCA Intelligent Printer Data Stream (IPDS) commands. If the size of the image specified in the IID structured field is 0, this error may occur.

The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS4081 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN UNSUPPORTED VALUE WAS FOUND IN AN IMAGE ENCODING PARAMETER IN AN IPD STRUCTURED FIELD.

Explanation: A value in the Image Encoding Parameter is unsupported. The parameter is in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information

provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS409I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN UNSUPPORTED VALUE WAS FOUND IN AN IMAGE DATA ELEMENT SIZE PARAMETER IN AN IPD STRUCTURED FIELD.

Explanation: A value in an Image Data Element Size Parameter is invalid. The parameter is in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS410I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IDE SIZE IN AN IMAGE DATA ELEMENT SIZE PARAMETER DOES NOT MATCH THE COMPRESSION VALUE IN THE IMAGE ENCODING PARAMETER IN AN IPD STRUCTURED FIELD.

Explanation: The Image Data Element (IDE) Size in an Image Data Element Size Parameter is inconsistent with the Compression Identifier in the Image Encoding Parameter. The parameters are in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS411I AN ATTEMPT WAS MADE TO PLACE IMAGE DATA OUTSIDE OF THE IMAGE PRESENTATION SPACE.

Explanation: An attempt was made to place image data outside of the image presentation space. The image presentation space is a two-dimensional conceptual space in which an image is generated. The space is then mapped onto an output medium. The

size of the image presentation space is defined in the Image Data Descriptor (IDD) structured field. The size of the image data is defined in the Image Size Parameter in an Image Picture Data (IPD) structured field. The size of the image data specified in the IPD structured field is too large to fit in the image presentation space specified in the IDD structured field. The IDD and IPD structured fields are in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS412I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN INVALID VALUE WAS FOUND IN A SELF-DEFINING FIELD IN AN IPD STRUCTURED FIELD.

Explanation: An invalid value was found in one of the following image self-defining fields: Begin Image Content, Image Size Parameter, or Image Data Element Size Parameter. The self-defining fields are in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS413I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN IMAGE ENCODING PARAMETER IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Encoding Parameter is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the

error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS414I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN IMAGE DATA ELEMENT SIZE PARAMETER IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Data Element Size Parameter is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS415I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN IMAGE LOOK-UP TABLE ID PARAMETER VALUE IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Look Up Table ID Parameter is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS4161 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN UNSUPPORTED LUT IDENTIFIER WAS FOUND IN AN IMAGE LOOK-UP TABLE ID PARAMETER IN AN IPD STRUCTURED FIELD.

Explanation: The value for the Look-Up Table (LUT) Identifier in the Look-Up Table ID Parameter is unsupported. The parameter is in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS4171 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN IMAGE DATA SELF-DEFINING FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Data self-defining field is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a

MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS4181 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE SIZE SPECIFIED IN THE IMAGE SIZE PARAMETER DOES NOT MATCH THE SIZE OF THE IMAGE DATA IN AN IPD STRUCTURED FIELD.

Explanation: The Image Size value specified in the Image Size Parameter does not match the size of the image data in an Image Data self-defining field. The Image Data field and the Image Size Parameter are both in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

If the IM1 image resolution in the IID structured field does not match the printer resolution, PSF attempts to convert the IM1 image to Image Object Content Architecture (IOCA) (if the printer supports IOCA). During this conversion process, IM1 structured fields are converted to IOCA Intelligent Printer Data Stream (IPDS) commands. If the size of the image specified in

the IID structured field does not match the amount of image data within the IRD structured fields, this error may occur.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27.

APS419I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN UNSUPPORTED UNIT BASE VALUE WAS FOUND IN AN IMAGE SIZE PARAMETER IN AN IPD STRUCTURED FIELD.

Explanation: The Unit Base value in an Image Size Parameter is invalid. The parameter is in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any position errors, exception highlighting may be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem Determination: Items 2, 8, 13, 17, 27. The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

APS420I AN ATTEMPT WAS MADE TO PRINT AN HRI CHARACTER OUTSIDE OF THE BAR CODE PRESENTATION SPACE.

Explanation: An attempt was made to print a human readable interpretation (HRI) character outside of the bar code presentation space. The bar code presentation space is a two-dimensional conceptual space in which a bar code is generated. The space is then mapped onto an output medium. The size of the bar code presentation space is defined in the Bar Code Data Descriptor (BDD) structured field.

The position of the HRI characters is defined in the Flags byte of the Bar Code Data (BDA) structured field. The position for the placement of the HRI characters caused an HRI character to be located outside of the bar code presentation space. The BDA and BDD structured fields are in a bar code object. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be

included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS421I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BAR CODE TYPE IN A BDD STRUCTURED FIELD IS INVALID OR IS UNSUPPORTED.

Explanation: The Bar Code Type specified in a Bar Code Data Descriptor (BDD) structured field is invalid or is unsupported. The BDD structured field is contained in a bar code object. The bar code object may be contained in a MO:DCA document, an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the

bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS422I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE LOCAL FONT IDENTIFIER IN A BDD STRUCTURED FIELD IS UNSUPPORTED OR REFERS TO A FONT THAT IS NOT AVAILABLE IN THE PRINTER.

Explanation: The Local Font Identifier specified in a Bar Code Data Descriptor (BDD) structured field cannot be used. This error can occur when the Font ID is unsupported, is not mapped to a font, or is mapped to a font that is not loaded in the printer. The BDD structured field is contained in a bar code object. The bar code object may be contained in a MO:DCA document, an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS423I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE COLOR IDENTIFIER IN A BDD STRUCTURED FIELD IS UNSUPPORTED.

Explanation: The Color Identifier specified in a Bar Code Data Descriptor (BDD) structured field is unsupported. The BDD structured field is contained in a bar code object. The bar code object may be contained in a MO:DCA document, an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS424I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE MODULE WIDTH IN A BDD STRUCTURED FIELD IS INVALID OR IS UNSUPPORTED.

Explanation: The Module Width value specified in a Bar Code Data Descriptor (BDD) structured field is invalid or is unsupported. The BDD structured field is contained in a bar code object. The bar code object

may be contained in a MO:DCA document, an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS425I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE ELEMENT HEIGHT IN A BDD STRUCTURED FIELD IS INVALID OR IS UNSUPPORTED.

Explanation: The Element Height value specified in a Bar Code Data Descriptor (BDD) structured field is invalid or is unsupported. The BDD structured field is contained in a bar code object. The bar code object may be contained in a MO:DCA document, an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit

the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS426I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE HEIGHT MULTIPLIER IN A BDD STRUCTURED FIELD IS INVALID OR IS UNSUPPORTED.

Explanation: The Height Multiplier value specified in a Bar Code Data Descriptor (BDD) structured field is invalid or is unsupported. The BDD structured field is contained in a bar code object. The bar code object may be contained in a MO:DCA document, an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in

determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS427I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE WIDE-TO-NARROW RATIO IN A BDD STRUCTURED FIELD IS INVALID OR IS UNSUPPORTED.

Explanation: The Wide-to-Narrow Ratio specified in a Bar Code Data Descriptor (BDD) structured field is invalid or is unsupported. The BDD structured field is contained in a bar code object. The bar code object may be contained in a MO:DCA document, an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS428I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE OBJECT AREA ORIGIN IN AN OBP STRUCTURED FIELD FOR A BAR CODE BLOCK IS INVALID OR IS UNSUPPORTED.

Explanation: The origin for a bar code block is specified in the Object Area Origin parameter in an Object Area Position (OBP) structured field. The origin value is invalid or is unsupported. The OBP structured field is in a bar code object. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS429I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BAR CODE MODIFIER IN A BDD STRUCTURED FIELD IS INVALID OR IS UNSUPPORTED.

Explanation: The Bar Code Modifier specified in a Bar Code Data Descriptor (BDD) structured field is invalid or unsupported for the Bar Code Type value specified in the BDD structured field. The BDD structured field is contained in a bar code object. The bar code object may be contained in a MO:DCA document, an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS430I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BAR CODE DATA LENGTH IN A BDA STRUCTURED FIELD IS INVALID OR IS UNSUPPORTED.

Explanation: The length of the bar code data in a Bar Code Data (BDA) structured field is invalid or unsupported. The BDA structured field is in a bar code object. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If

you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4311 THE OBJECT AREA ORIGIN IN AN OBP STRUCTURED FIELD FOR A BAR CODE BLOCK IS OUTSIDE OF THE LOGICAL PAGE.

Explanation: The bar code block origin is specified in the Object Area Origin parameter of an Object Area Position (OBP) structured field. The origin specified lies outside of the logical page. The origin of the logical page is specified in the Page Position (PGP) structured field. The dimensions of the logical page are specified in the Page Descriptor (PGD) structured field.

The OBP structured field is in a bar code object. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data. The PGD structured field is in the MO:DCA data set, an overlay, or a page definition. The PGP structured field is in a form definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Change one of the following three specifications:

- The logical page origin, by correcting the form definition.
- The logical page size, by correcting the MO:DCA data, the overlay, or the page definition.
- The bar code block origin, by correcting the bar code object.

If the above specifications seem to be correct, this error may be a PSF or printer logic error. Notify your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4321 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A CHECK DIGIT VALUE OF 10 WAS CALCULATED, WHICH IS AN ERROR AS DEFINED BY THE BAR CODE MODIFIER FOR THIS BAR CODE TYPE IN A BDD STRUCTURED FIELD.

Explanation: The Bar Code Modifier associated with the Bar Code Type of MSI in a Bar Code Data Descriptor (BDD) structured field specified that a check digit value of 10 should be treated as an error condition. A check digit value of 10 was calculated. The BDD structured field is contained in a bar code object. The bar code object may be contained in a MO:DCA document, an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS433I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE HRI LOCATION IN A BDA STRUCTURED FIELD IS INVALID OR IS UNSUPPORTED.

Explanation: The Human Readable Interpretation (HRI) location specified in the Flag byte in a Bar Code Data (BDA) structured field is invalid or is unsupported. The BDA structured field is in a bar code object. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS434I AN ATTEMPT WAS MADE TO PLACE BAR CODE DATA OR THE BAR CODE PRESENTATION SPACE OUTSIDE OF THE DEFINED OUTPUT AREA FOR BAR CODE DATA.

Explanation: The meaning of this exception depends on the printer that detected it. Refer to your printer publications to determine which of the following two possibilities applies:

- Part of a bar code symbol extends beyond the output area for bar code data. This output area is the intersection of the mapped bar code presentation space with the bar code block.
- Part of the bar code presentation space extends beyond the boundaries of the bar code block.

The size of the bar code presentation space is defined in the Bar Code Data Descriptor (BDD) structured field. The size of the bar code block is defined in the Object Area Descriptor (OBD) structured field. The placement of the bar code symbol is defined in the Bar Code Data (BDA) structured field. The BDA, BDD, and OBD structured fields are in a bar code object. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS435I AN ATTEMPT WAS MADE TO PLACE BAR CODE DATA OR THE BAR CODE PRESENTATION SPACE OUTSIDE OF THE DEFINED OUTPUT AREA FOR BAR CODE DATA.

Explanation: The meaning of this exception depends on the printer that detected it. Refer to your printer publications to determine which of the following two possibilities applies:

- Part of a bar code symbol extends beyond the output area for bar code data. This output area is the intersection of the mapped bar code presentation space and the bar code block.
- Part of the bar code presentation space extends beyond the bar code block boundaries.

The size of the bar code presentation space is defined in the Bar Code Data Descriptor (BDD) structured field. The size of the bar code block is defined in the Object Area Descriptor (OBD) structured field. The placement of the bar code symbol is defined in the Bar Code Data (BDA) structured field. The BDA, BDD, and OBD structured fields are in a bar code object. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS436I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: GRAPHICS DATA CONTAINS AN UNSUPPORTED DRAWING ORDER OR COMMAND CODE.

Explanation: One of the following errors was detected in a graphics object:

- An unsupported drawing order was specified in a Graphics Data (GAD) structured field.
- A Begin Segment Introducer was not found in a GAD structured field.
- The Drawing Order self-identifying parameter of a Graphics Data Descriptor (GDD) structured field an invalid value for Parameter Type.
- A graphics command code was received that is not a supported IPDS command code, as described in Intelligent Printer Data Stream Reference. This may be a PSF or printer logic error.

The GAD and GDD structured fields are in a graphics object. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4371 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A GRAPHICS OBJECT CONTAINS AN INVALID VALUE.

Explanation: One of the following errors was detected in a graphics object:

- A reserved byte in a graphics drawing order is not set to 0. Drawing orders are in a Graphics Data (GAD) structured field.
- The Set Current Defaults self-identifying parameter of the Graphics Data Descriptor (GDD) structured field contains one of the following invalid values:
 - The Parameter Type value is invalid.
 - The Parameter Length is X'04', but the Flag byte is not X'0F'.
 - The Parameter Length is greater than X'04', but the Flag byte is not X'8F'.
 - A Mask attribute value is invalid or unsupported.

The GAD and GDD structured fields are in a graphics object. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4381 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE LENGTH OF A GRAPHICS DRAWING ORDER IS INCORRECT.

Explanation: A drawing order in a graphics object has an invalid length. This error may be caused by one of the following:

- The Segment Length in a Begin Segment Introducer in a Graphics Data (GAD) structured field is X'0000' for a new segment.
- A drawing order in a GAD structured field specifies an incorrect length.
- In the Set Current Defaults self-identifying parameter of a Graphics Data Descriptor (GDD) structured field, one of the following errors was detected:
 - The Flag byte is X'8F', but the Length field does not contain the value implied by the Mask field.
 - The Flag byte is X'0F', but the Length field is not X'04'.
 - The amount of Data bytes does not match the value in the Length field.

The GAD and GDD structured fields are in a graphics object. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS439I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A GRAPHICS DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS AN INVALID ATTRIBUTE VALUE.

Explanation: A drawing order in a Graphics Data (GAD) structured field contains an invalid value for an attribute. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS440I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A GRAPHICS DRAWING ORDER IN A GAD STRUCTURED FIELD IS INCOMPLETE.

Explanation: An incomplete drawing order was specified in a Graphics Data (GAD) structured field. The GAD structured field is in a graphics object. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS441I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE PROLOG IN A GAD STRUCTURED FIELD CONTAINS INVALID DATA.

Explanation: A Graphics Data (GAD) structured field contains a Begin Segment Introducer that defines a prolog for a graphics segment. The prolog has one of the following errors:

- A supported drawing order has been encountered that is not valid in a prolog.
- The end of the segment was reached and no End Prolog was encountered.

The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4421 AN ATTEMPT WAS MADE TO PLACE GRAPHICS DATA OUTSIDE OF THE GRAPHICS PRESENTATION SPACE.

Explanation: A drawing order attempted to place graphics data outside of the graphics presentation space. The graphics presentation space is a two-dimensional conceptual space in which the graphics data is generated. The space is then mapped onto an output medium. The extent of the graphics presentation space is -32K to +32K units. The size of the graphics data is defined in the Begin Image drawing order in the Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be

included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4431 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A GRAPHICS DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS AN UNSUPPORTED COLOR/ATTRIBUTE VALUE.

Explanation: A drawing order in a Graphics Data (GAD) structured field contains an unsupported value for an attribute. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

This message is sometimes issued because an unsupported color value is specified in a Set Color or Set External Color drawing order.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document*

Content Architecture Reference for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS444I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A DEFAULT VALUE SET IN A GDD STRUCTURED FIELD IS INVALID OR IS UNSUPPORTED.

Explanation: The Set Current Defaults self-identifying parameter of a Graphics Data Descriptor (GDD) structured field sets a default in the Data bytes that is invalid or is unsupported. The GDD structured field is in a graphics object. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS445I PRINTER(*prtnnnn*) IS UNUSABLE—ASSIGNED TO ANOTHER SYSTEM.

Explanation: PSF attempted to issue I/O to the printer, but the printer was assigned (reserved) to another system. The printer multi-host feature was enabled, which causes the printer to enforce that only one system can use the printer at a time. The printer detected and reported the error with an action code X'25' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF issues this message and terminates with an abend 024 RC0E33 or abend 024 RC0E35.

System Programmer Response: If you do not need to share the printer among multiple PSF hosts, disable the multi-host feature at the printer console. For more information concerning sharing a printer among multiple PSFs, refer to *PSF for OS/390: Customization*.

Operator Response: Determine which system the printer is assigned to and, when appropriate, vary the printer offline from that system and vary the printer online to the desired system. Restart PSF.

Problem Determination: Item 1.

APS446I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SET CHARACTER ANGLE DRAWING ORDER IN A GAD STRUCTURED FIELD SPECIFIES AN UNSUPPORTED CHARACTER ANGLE VALUE.

Explanation: The Character Angle value specified in a Set Character Angle drawing order is not supported. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in

error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4471 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE END PROLOG DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: PSF found an End Prolog drawing order outside of the prolog section of a graphics segment. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4481 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN END AREA DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: An End Area drawing order was encountered without a Begin Area drawing order preceding it. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS449I INSUFFICIENT PRINTER STORAGE WAS AVAILABLE TO PROCESS A GRAPHICS OBJECT.

Explanation: Some areas defined in graphics segments require temporary printer storage for processing. Insufficient temporary printer storage was available to process a graphics segment in a graphics object. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Simplify the area defined in the graphics segment, and submit the print request again.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS450I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A BEGIN AREA DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: A Begin Area drawing order was encountered at a time when another Begin Area drawing order was in effect. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing

the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS451I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN END AREA DRAWING ORDER IS MISSING FROM A GAD STRUCTURED FIELD.

Explanation: A Begin Area drawing order was processed in a graphics segment, and the end of the segment was reached before an End Area drawing order was encountered. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS452I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN UNEXPECTED DRAWING ORDER WAS ENCOUNTERED IN A GAD STRUCTURED FIELD.

Explanation: A drawing order was encountered within an area defined by a Begin Area drawing order. This drawing order is supported, but is not valid inside an area. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS453I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SET PATTERN SET DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS AN UNSUPPORTED VALUE.

Explanation: The Pattern Set Identifier specified in a Set Pattern Set drawing order is not supported. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS454I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE PATTERN TYPE SPECIFIED IN A SET PATTERN SYMBOL DRAWING ORDER IN A GAD STRUCTURED FIELD IS UNDEFINED.

Explanation: The Pattern Type specified in a Set Pattern Symbol drawing order is not defined in the pattern symbol set specified in a Set Pattern Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS455I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SEGMENT FLAGS IN THE BEGIN SEGMENT INTRODUCER OF A GAD STRUCTURED FIELD ARE INVALID.

Explanation: The Segment Flags in the Begin Segment Introducer of a Graphics Data (GAD) structured field are set to B'10', which is an invalid value. The GAD structured field is contained in a graphics object. The graphics object may be contained

in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS456I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SEGMENT FLAGS IN THE BEGIN SEGMENT INTRODUCER OF A GAD STRUCTURED FIELD ARE INVALID.

Explanation: The Segment Flags in the Begin Segment Introducer of a Graphics Data (GAD) structured field are set to B'01', which is an invalid value. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit

the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS457I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: BYTE 1 OF THE BEGIN SEGMENT INTRODUCER IS INVALID IN A GAD STRUCTURED FIELD.

Explanation: The Begin Segment Introducer Length parameter (byte 1) is invalid in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS458I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: LESS DATA WAS FOUND IN THE DRAWING ORDERS FOR A GRAPHICS SEGMENT THAN WAS SPECIFIED IN THE BEGIN SEGMENT INTRODUCER SEGMENT LENGTH PARAMETER IN A GAD STRUCTURED FIELD.

Explanation: The amount of data in the drawing orders for a graphics segment is less than the segment length specified in the Begin Segment Introducer of a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS459I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN IMAGE DATA DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: An Image Data drawing order was encountered without a preceding Begin Image drawing order. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS460I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE AMOUNT OF IMAGE DATA FOUND IN AN IMAGE DATA DRAWING ORDER IN A GAD STRUCTURED FIELD DOES NOT MATCH THE SPECIFIED LENGTH.

Explanation: The amount of image data found in an Image Data drawing order does not match the Length parameter specified in that drawing order. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a

graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS461I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN END IMAGE DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: An End Image drawing order was encountered that is not preceded by a Begin Image drawing order. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS462I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE NUMBER OF DRAWING ORDERS IN A GAD STRUCTURED FIELD IS INCORRECT.

Explanation: The number of drawing orders between the Begin Image and End Image drawing orders is not equal to the value specified in the Image Height parameter in the Begin Image drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to

that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS463I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SET MARKER SET DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS AN UNSUPPORTED VALUE.

Explanation: The Local Marker Set Identifier specified in a Set Marker Set drawing order is not supported. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS464I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE MARKER SYMBOL SPECIFIED IN A SET MARKER SYMBOL DRAWING ORDER IN A GAD STRUCTURED FIELD IS UNDEFINED.

Explanation: The Marker Symbol specified in a Set Marker Symbol drawing order is not defined in the marker symbol set specified in the Set Marker Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS465I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE MARKER SYMBOL SPECIFIED IN A SET MARKER SYMBOL DRAWING ORDER IN A GAD STRUCTURED FIELD IS NOT SUPPORTED IN THE CURRENT MARKER SYMBOL SET.

Explanation: The Marker Symbol specified in a Set Marker Symbol drawing order is not supported in the

marker symbol set specified in the Set Marker Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS466I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE CHARACTER SET SPECIFIED IN A SET CHARACTER SET DRAWING ORDER IN A GAD STRUCTURED FIELD IS NOT AVAILABLE IN THE PRINTER OR CANNOT BE USED WITH THE CURRENT PRINT QUALITY LEVEL.

Explanation: The Local Character Set Identifier specified in a Set Character Set drawing order is not mapped to a font or symbol set, or was mapped to a font or symbol set that is not loaded in the printer. For printers that support multiple levels of print quality, another source of this error is that the symbol set mapped to the Character Set ID is not supported at the current print quality level. The print quality level is specified in the Medium Modification Control (MMC) structured field in the form definition. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a

MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Change one of the following specifications:

- The print quality level in the form definition
- The character set identifier in the graphics object

If the character set originally specified should be supported at the specified print quality level, this error may be a PSF or printer logic error. Notify your system programmer.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. If you suspect a PSF logic error, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4671 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A GRAPHICS CHARACTER CODE IN A GAD STRUCTURED FIELD IS UNDEFINED OR UNAVAILABLE IN THE CURRENT CHARACTER SET.

Explanation: A graphics character code in a Character String drawing order is undefined or points to a character pattern that is not available in the character set specified in the Set Character Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4681 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A GRAPHICS CHARACTER CODE IN A GAD STRUCTURED FIELD IS UNDEFINED OR UNAVAILABLE IN THE CURRENT CHARACTER SET.

Explanation: A graphics character code in a Character String drawing order is undefined or points to a character pattern that is not available in the character set specified in the Set Character Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS469I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SYMBOL SET SPECIFIED IN A SET CHARACTER SET DRAWING ORDER IN A GAD STRUCTURED FIELD DOES NOT HAVE THE CHARACTER ATTRIBUTES SPECIFIED IN THE GDD STRUCTURED FIELD.

Explanation: The symbol set specified in a Set Character Set drawing order cannot support the functions of the character attributes specified in the corresponding Graphics Data Descriptor (GDD) structured field. The drawing order is in a Graphics Data (GAD) structured field. The GAD and GDD structured fields are in a graphics object. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS470I THE OVERLAY NESTING LIMIT OF THE PRINTER WAS EXCEEDED.

Explanation: Because of excessive page segment nesting in a page, insufficient storage prevents processing of an overlay or page segment.

System Action: The printer you were using may attempt to print the page in error, or may print only part of the page. If the page containing the error contains any positioning errors, print-error markers may be included on the printed page. PSF stops processing and printing the data set.

User Response: If the printed output is not acceptable, use smaller or fewer page segments in the overlay.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS471I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE OBJECT AREA ORIENTATION PARAMETER IS INVALID IN AN OBP STRUCTURED FIELD.

Explanation: The Object Area Orientation parameter in an Object Area Position (OBP) structured field contains an invalid value. The OBP structured field is in the Object Environment Group of a bar code, graphics, or image object. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may

not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS473I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE OBJECT CONTENT ORIGIN PARAMETER IS INVALID OR IS UNSUPPORTED IN AN OBP STRUCTURED FIELD.

Explanation: The Object Content Origin parameter in an Object Area Position (OBP) structured field contains an invalid or unsupported value. The OBP structured field is in the Object Environment Group of a bar code, graphics, or image object. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS474I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE UNITS SPECIFIED IN THE DATA DESCRIPTOR STRUCTURED FIELD ARE INVALID.

Explanation: The unit value in one of the following data descriptor structured fields is invalid:

- For a bar code object, the L-Units per Unit Base parameter in a Bar Code Data Descriptor (BDD) structured field.
- For a graphics object, the L-Units per Unit Base field in the Window Specification self-identifying parameter in a Graphics Data Descriptor (GDD) structured field.
- For an image object, the Image Points per Unit Base parameter in an Image Data Descriptor (IDD) structured field.

If the IM1 image resolution within the IID structured field does not match the printer resolution, PSF attempts to convert the IM1 image to Image Object Content Architecture (IOCA), if the printer supports IOCA. During this conversion process, IM1 structured fields are converted to IOCA Intelligent Printer Data Stream (IPDS) commands. Because IM1 structured fields do not contain L-Units per Unit Base parameters, the L-Units are determined from the PGD used for the page. The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data. The graphics object may be contained in a MO:DCA document, or an overlay, or it may be imbedded in a data set containing line data. The image object may be contained in a

MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS475I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE X OR Y EXTENT SPECIFIED IN THE DATA DESCRIPTOR STRUCTURED FIELD IS INVALID.

Explanation: The X or Y extent value is invalid in one of the following data descriptor structured fields:

- For a bar code object, the Bar Code Presentation Space Size parameter in the Bar Code Data Descriptor (BDD) structured field
- For a graphics object, the Window Coordinates field in the Window Specification self-identifying parameter of the Graphics Data Descriptor (GDD) structured field
- For an image object, the Image Size parameter in the Image Data Descriptor (IDD) structured field

The bar code object may be contained in an overlay or a MO:DCA document or it may be imbedded in a data set containing line data. The graphics object may be contained in a MO:DCA document, or an overlay, or it

may be imbedded in a data set containing line data. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS476I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE HORIZONTAL COORDINATE FOR THE IMAGE BLOCK ORIGIN PARAMETER IS OUT OF RANGE IN AN IOC STRUCTURED FIELD.

Explanation: The Horizontal Coordinate for the Image Block Origin parameter is out of range in an Image Output Control (IOC) structured field. The value is specified in absolute X-units. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in

error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS477I AN ATTEMPT WAS MADE TO PRINT AN OBJECT OUTSIDE OF THE VALID PRINTABLE AREA.

Explanation: An attempt was made to print a bar code, graphics, or image object outside of the valid printable area. The valid printable area is the intersection (common space) of the physical page with one of the following:

- The logical page
- The overlay
- The user-printable area defined within the logical page

Data in an image, graphics, or bar code object falls at least partly outside of the valid printable area.

The logical page size is defined in the Page Descriptor (PGD) structured field. The logical page origin is defined in the Page Position (PGP) structured field. The PGD structured field can be in the MO:DCA data, in an overlay, or in a page definition. The PGP structured field is in a form definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in

error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Ensure that the correct form was loaded in the printer. If it was, change one of the following specifications:

- The logical page size in the MO:DCA data, overlay, or page definition
- The logical page origin in the form definition
- The object origin in the Object Area Position (OBP) structured field in the object
- The object size in the Object Area Descriptor (OBD) structured field in the object

If all of the above specifications seem correct, the error may be a PSF or printer logic error. Notify your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS478I AN ATTEMPT WAS MADE TO PRINT AN OBJECT OUTSIDE OF THE VALID PRINTABLE AREA.

Explanation: An attempt was made to print a bar code, graphics, or image object outside of the valid printable area. The valid printable area is the intersection (common space) of the physical page with one of the following:

- The logical page
- The overlay
- The user-printable area defined in the logical page

Data in an image, graphics, or bar code object falls at least partly outside of the valid printable area.

The logical page size is defined in the Page Descriptor (PGD) structured field. The logical page origin is defined in the Page Position (PGP) structured field. The PGD structured field can be in the MO:DCA data, in an overlay, or in a page definition. The PGP structured field is in a form definition.

If the IM1 image resolution within the IID structured field does not match the printer resolution, PSF attempts to convert the IM1 image to Image Object Content

Architecture (IOCA) (if the printer supports IOCA). During this conversion process, IM1 structured fields are converted to IOCA Intelligent Printer Data Stream (IPDS) commands. IM1 images that fall outside of the logical page would cause this error.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Ensure that the correct form was loaded in the printer. If it was, change one of the following specifications:

- The logical page size in the MO:DCA data, overlay, or page definition
- The logical page origin in the form definition
- The object origin in the Object Area Position (OBP) structured field in the object
- The object size in the Object Area Descriptor (OBD) structured field in the object

If all of the above specifications seem correct, the error may be a PSF or printer logic error. Notify your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS479I PRINTER(*prtnnnn*) IS UNUSABLE—NOT ASSIGNED TO THIS SYSTEM.

Explanation: PSF attempted to issue I/O to the printer, but the printer was assigned (reserved) to another system. The printer multi-host feature was enabled, which causes the printer to enforce that only one system can use the printer at a time. The printer detected and reported the error with an action code X'24' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF issues this message and terminates with an abend 024 RCE34 or abend 024 RCE36.

System Programmer Response: If you do not need to share the printer among multiple PSF for OS/390 hosts, disable the multi-host feature at the printer console. For more information concerning the sharing of a printer among multiple PSFs, refer to *PSF for OS/390: Customization*.

Operator Response: Determine which system the printer should be assigned to and, when available, vary the printer online to the system. This action might require the printer be varied offline from another system. Restart PSF.

Problem Determination: Item 1.

APS480I THE ERROR SENSE BYTES 0–7 = error sense bytes 0–7, SENSE BYTES 8–18 = error sense bytes 8–18, SPECIFICATION GROUP = specification group, PAGE IDENTIFIER = page identifier.

Explanation: This message formats and presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error. A message describing the specific I/O error accompanies this message.

- *error sense bytes 0–7* are the first eight bytes in the sense data, reported in hexadecimal.
- *error sense bytes 8–18* are the next 11 bytes in the sense data, reported in hexadecimal.
- *specification group* is byte 19 of the sense data (reported in hexadecimal), which identifies the group number for specification check exceptions.
- *page identifier* is the last four bytes in the sense data (reported in hexadecimal), which identify the page containing the error.

System Action: See the accompanying messages for the system action that was taken.

User Response: See the specific error conditions described in the accompanying messages to determine an appropriate response.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System Programmer Response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Problem Determination: Items 2, 17, 27.

APS4811 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN ARC DRAWING ORDER IN A GAD STRUCTURED FIELD CAUSED AN ARC ENDING ERROR.

Explanation: A Full Arc or Full Arc at Current Position drawing order has an error in its coordinate values, so that the starting and ending points of the arc are identical. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4821 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN ARC DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS ERRORS.

Explanation: A Full Arc or Full Arc at Current Position drawing order has an error in its coordinate values, so that it may not be possible to draw the arc within the normal limits of pel accuracy. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics

object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4831 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN END IMAGE DRAWING ORDER IS MISSING FROM A GAD STRUCTURED FIELD.

Explanation: A Begin Image drawing order was processed in a graphics segment, and the end of the segment was reached before an End Image drawing order was encountered. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS484I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: A Begin Image drawing order was processed in a graphics segment, and a drawing order that is not allowed to follow that drawing order was encountered. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to

that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS485I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE FORMAT SPECIFIED IN A BEGIN IMAGE DRAWING ORDER IN A GAD STRUCTURED FIELD IS NOT SUPPORTED.

Explanation: The Image Format value specified in a Begin Image drawing order is not supported. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4861 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE WIDTH SPECIFIED IN A BEGIN IMAGE DRAWING ORDER IN A GAD STRUCTURED FIELD IS TOO LARGE.

Explanation: The Image Width value specified in a Begin Image drawing order exceeds the maximum supported image width. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4871 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE HEIGHT SPECIFIED IN A BEGIN IMAGE DRAWING ORDER IN A GAD STRUCTURED FIELD IS TOO LARGE.

Explanation: The Image Height value specified in a Begin Image drawing order exceeds the maximum supported image height. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD

structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4881 AN ATTEMPT WAS MADE TO DRAW A LINE OUTSIDE OF THE GRAPHICS PRESENTATION SPACE.

Explanation: A Relative Line or Relative Line at Current Position drawing order attempted to draw a line outside of the graphics presentation space. The graphics presentation space is a two-dimensional conceptual space in which the graphics data is generated. The space is then mapped onto an output medium. The extent of the graphics presentation space is -32K to +32K units. The end points of the line are defined in the drawing order. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any

positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS489I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A SEGMENT CHARACTERISTICS DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: A Segment Characteristics drawing order was encountered outside of a segment prolog. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object may be contained in a MO:DCA document or an overlay or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the graphics object, correct the error and resubmit

the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS490I THE ERROR SENSE BYTES 0-2 = error sense bytes 0-2.

Explanation: This message presents the 3 printer sense bytes that were reported to PSF at the time of an I/O error.

System Action: See the accompanying messages for the system action that was taken.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages. If the accompanying messages are not sufficient to identify the problem, consult your system programmer.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages. If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error. If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before consulting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS4911 THE PRINT QUALITY LEVEL SPECIFIED IN THE FORMDEF CANNOT BE PROVIDED BY THE SELECTED FONT.

Explanation: The font selected to print the data cannot provide the print quality level specified in the Medium Modification Control (MMC) structured field. The MMC structured field is in the form definition. The selected font is specified in the MO:DCA data, page definition, or overlay, or with the JCL CHARS option. If no font was explicitly specified, the default printer font was being used.

System Action: PSF terminates the processing and printing of the page.

User Response: If the print quality and font used by the printer are acceptable, no response is necessary. If the specified print quality level is required, select a font that can be printed at that print quality level, and resubmit the print request. If the selected font is required, specify a print quality level in the form definition that is supported by that font, and resubmit the print request. To determine the print quality level that each font supports, refer to *Advanced Function Presentation: Printer Information* and printer publications.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4921 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SPECIFIED FONT CANNOT BE PRINTED IN THE SPECIFIED ORIENTATION.

Explanation: This error was caused by one of the following:

- A Set Coded Font Local (SCFL) text control in a Presentation Text Data (PTX) structured field named a font that was not available in the printer in the orientation specified in a Set Text Orientation (STO) text control.
- An STO text control, when combined with the current print direction, results in a print direction that the printer does not support.
- Because of a PSF logic error, the requested font is not available in the printer in the specified orientation.

The STO text control is imbedded in a PTX structured field or was generated by PSF from a page definition.

The Presentation Text Data (PTX) structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: PSF terminates the processing and printing of the page.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS4931 AN ATTEMPT WAS MADE TO USE A RESIDENT SYMBOL SET OR RESIDENT FONT THAT IS NOT VALID OR IS NOT SUPPORTED BY THIS PRINTER.

Explanation: A resident symbol set or resident font specified for this print data set is not valid, or is not supported by this printer. The name of the symbol set or font could have been specified in the JCL CHARS parameter or in a Map Coded Font (MCF) structured field. The MCF structured field is contained in a MO:DCA document, an overlay, or a page definition.

PSF uses the PSF Resident Font Table (APSRFTBL) to map the font or symbol set name to a Global Resource Identifier (GRID), which is then used to identify the font or symbol set in the printer. The symbol set or font was defined in APSRFTBL, but was not recognized by the printer.

System Action: PSF terminates the processing and printing of the page.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: If necessary, modify the entry in the APSRFTBL for the symbol set or font named by the print-job submitter. Ensure that the

requested font or symbol set is mapped to a valid GRID. If the current entry seems to be valid, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS494I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE BLOCK ORIGIN IS INVALID OR IS UNSUPPORTED IN AN IOC STRUCTURED FIELD.

Explanation: The X-coordinate or Y-coordinate for the Image Block Origin is invalid, or is unsupported in an Image Output Control (IOC) structured field. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content Architecture (IOCA), PSF may have converted your IOCA image to an IM1 image. In this case, the invalid value is in the OBP structured field.

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS495I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE VERTICAL COORDINATE FOR THE IMAGE BLOCK ORIGIN PARAMETER IS OUT OF RANGE IN AN IOC STRUCTURED FIELD.

Explanation: The Vertical Coordinate for the Image Block Origin parameter is out of range in an Image Output Control (IOC) structured field. The value is specified in absolute Y-units. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS4961 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE COMPRESSION ALGORITHM SPECIFIED IN AN IPD STRUCTURED FIELD WAS UNSUCCESSFUL IN DECOMPRESSING THE IMAGE DATA.

Explanation: The Compression Identifier specified in the Image Encoding Parameter of an Image Picture Data (IPD) structured field could not be successfully used to decompress the image data. The IPD structured field is contained in an image object. The image object may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 8, 13, 17, 27.

APS4971 DATA IN A FONT RESOURCE IS INVALID: THE DOUBLE-BYTE FONT SPECIFIED MICR PRINTING IN SOME, BUT NOT ALL, FONT SECTIONS.

Explanation: MICR printing was specified for one section of a double-byte font, but not all sections of that font. If the intended-use flags for one section of a double-byte font specify MICR printing, MICR printing must be specified for all sections of that font.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If the MICR font was supplied by IBM, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center. If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS4981 ORDERED DATA WAS SPECIFIED FOR THE PAGE, BUT UNORDERED DATA WAS RECEIVED.

Explanation: PSF indicated that the data on the page was ordered, but the data received by the printer was not ordered. Ordered data is defined to PSF by specifying PRMODE=LINE on the OUTPUT statement JCL when submitting the job. This error can occur only on printers that support ordered data. For more information, refer to *Advanced Function Presentation: Printer Information*. This error occurs if ordered data was indicated to PSF and a structured field other than IDM or IMM was included with the line-data records on a page.

System Action: The APS858I message following this message defines the system action.

User Response: If you specified PRMODE=LINE on the OUTPUT statement JCL when you submitted the job, resubmit the job without specifying PRMODE=LINE, or remove all structured fields other than IDM and IMM from the line-data records and resubmit it. If you did not specify PRMODE=LINE, or if you do not have structured fields included with your line-data records, the error may be a PSF or printer logic error; consult your system programmer.

System Programmer Response: If the error involves the separator page or the message data set, this may be a PSF or printer logic error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Notify your system programmer.

Problem Determination: Items 1, 2, 17, 27.

**AP5499I DATA IN AN INPUT RECORD IS INVALID:
THE ORIENTATION FIELD IN AN
INCLUDE PAGE OVERLAY COMMAND
CONTAINS AN INVALID VALUE.**

Explanation: The OvlYOrient field in the Include Page Overlay (IPO) command has an invalid value. The IPO structured field is contained in a MO:DCA document.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

**AP5500I THE library resource type SYSTEM
LIBRARY WAS NOT SPECIFIED.**

Explanation: The ddname on the DD statement in the PSF startup procedure did not specify a library type for the resources specified in the current print request.

Library resource type can be:

FONT
SEGMENT/OCA
PAGEDEF
FORMDEF
OVERLAY
OBJECT CONTAINER
SECURITY FONT
SECURITY SEGMENT/OCA
SECURITY OVERLAY
SECURITY DEFINITIONS

System Action: For the system action taken, see the accompanying messages.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: The keyword for referencing a library type has not been specified on the PRINTDEV statement—for example, FONTDD=ddname, PSEGDD=ddname. Specify all library types needed for this print request. For information on how to code a PRINTDEV statement, refer to *PSF for OS/390: Customization*. If the installation procedure for this writer indicates that these messages are expected, no action is necessary.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

**AP5501I THE DYNAMIC ALLOCATION FUNCTION
WAS UNSUCCESSFUL — RETURN CODE
xxxx, REASON CODE xxxx.**

Explanation: An attempt to use an SVC 99 instruction in performing the dynamic allocation of the user libraries associated with this data set was made, but was unsuccessful.

System Action: PSF cannot print the current data set. PSF will release the current data set back to JES and will request that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Verify that the data sets specified in the USERLIB keyword of the print job JCL are correctly specified and cataloged on the system. If the data sets are correctly specified, notify your system programmer of this error.

System Programmer Response: Use the return code and reason code to determine the cause of the error and an appropriate response. For information on the

SVC 99 return and reason codes, refer to *MVS/ESA System Programming Library: Application Development Macro Reference*.

Operator Response: No response is necessary.

Problem Determination: Items 4, 9, 14, 17, 20.

APS502I *resource type* **IN THE SYSTEM LIBRARY CANNOT BE ACCESSED BECAUSE THE library resource type LIBRARY WAS NOT SPECIFIED ON THE PRINTDEV STATEMENT. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.**

Explanation: The ddname on the DD statement in the procedure to start PSF did not specify a library for the resources specified in the current print request. The error could be caused by one of the following:

- A library required for the PSF startup procedure has not been specified on the PRINTDEV statement.
- The incorrect PSF startup procedure was started.
- The PSF startup procedure was modified to accept an incorrect job class.
- The print request specified an incorrect job class.

The message identifies the library that contains the error as follows: *Resource type* can be:

CODED FONT DEFINITION RESOURCE
PAGE DEFINITION RESOURCE
PAGE SEGMENT/OCA RESOURCE
FORM DEFINITION RESOURCE
MEDIUM OVERLAY RESOURCE
FONT CHARACTER SET RESOURCE
CODE PAGE RESOURCE
OBJECT CONTAINER RESOURCE
SECURITY DEFINITIONS RESOURCE

Library resource type can be:

FONT
SEGMENT/OCA
PAGEDEF
FORMDEF
OVERLAY
OBJECT CONTAINER
SECURITY FONT
SECURITY SEGMENT/OCA
SECURITY OVERLAY SECURITY DEFINITIONS

System Action: For the system action taken, see the accompanying messages.

User Response: Ensure that the resource name is spelled correctly. Also, ensure that the print request was routed to the correct output class. If the resource name and print class are correct, notify your system programmer.

System Programmer Response: The library indicated in this message must be specified on the PRINTDEV statement in the procedure used to start PSF. If the

installation procedure for this writer indicates that these messages are expected, no action is necessary. For information on how to code a PRINTDEV statement, refer to *PSF for OS/390: Customization*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS503I **THE DYNAMIC CONCATENATION FUNCTION WAS UNSUCCESSFUL — RETURN CODE *xxxx*, REASON CODE *xxxx*.**

Explanation: An attempt to use an SVC 99 instruction to perform the dynamic concatenation of the user libraries associated with this data set was made, but was unsuccessful.

System Action: PSF cannot print the current data set. PSF will release the current data set back to JES and will request that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Use the return code and the reason code to determine the cause of the error and an appropriate response. For information on the SVC 99 return and reason codes, refer to *MVS/ESA System Programming Library: Application Development Macro Reference*.

Operator Response: No response is necessary.

Problem Determination: Items 4, 9, 14, 17, 20.

APS504I **YOU ARE NOT AUTHORIZED BY RACF TO ACCESS USERLIB *userlibname*.**

Explanation: The authority that is required in order for you to access the specified user library is not present. Access to USERLIB is denied.

System Action: PSF cannot print the current data set. PSF will release the current data set back to JES and will request that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Ask the security administrator to arrange permission for you to access the indicated library.

System Programmer Response: Determine whether the user should be authorized to access the indicated library. If so, use RACF to give the user the appropriate authorization. For more information, refer to the RACF publications for your operating system.

Operator Response: Notify the security administrator of this error. For a command to release the data set for printing after the problem has been corrected, see the

publication containing JES operator commands for your operating system.

Problem Determination: Items 2, 14, 17, 19.

APS505I A VIRTUAL STORAGE REQUEST WAS UNSUCCESSFUL — REQUEST SIZE (storage request size), GETMAIN RETURN CODE return code. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: A GETMAIN macro attempted to obtain virtual storage, but was unsuccessful. After returning from the GETMAIN macros, register 15 contained a nonzero return code. This message indicates the storage size requested and the return code from the system GETMAIN macro.

System Action: For the system action taken, see the other messages associated with this error.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Increase the REGION parameter on the PSF startup procedure, and restart PSF. To interpret the GETMAIN return code, refer to *MVS/ESA System Programming Library: Application Development Macro Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS506I THE LIBRARY DATA SET ORGANIZATION IS INVALID. IT MUST BE SPECIFIED AS A PARTITIONED DATA SET.

Explanation: The data set organization specified in a library is invalid because it is not defined as a partitioned data set.

System Action: For the system action taken, see the other messages associated with this error.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Specify the organization in the Data Set Organization (DSORG) field of the data control block as partitioned, PO; or partitioned with location-dependent information, POU. For more information about defining a library, refer to *PSF for OS/390: Customization*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS507I THE LIBRARY RECORD FORMAT IS INVALID. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: The library has an invalid record format. In the security definitions library, the record format (RECFM) field of the data control block (DCB) must be set to fixed F, or fixed-block FB. Control characters and track overflow must not be specified. The LRECL must be 80. For all other library data sets, the RECFM must be specified with control characters as variable-unblocked V, or variable-blocked VB. The other messages associated with this error identify the library.

System Action: See the accompanying messages explaining the error.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Change the format of the library to the appropriate format for this library and restart PSF. For more information about defining a library, refer to *PSF for OS/390: Customization*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS515I INSUFFICIENT VIRTUAL STORAGE WAS AVAILABLE FOR BUFFERING OF INLINE RESOURCES.

Explanation: The GETMAIN MACRO attempted to obtain space for the inline resource buffers, but was unsuccessful; or an inline resource approached 1 GB in size (a gigabyte is 1073741824 bytes).

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: Determine whether unnecessary inline resources may be deleted from the input data stream, or if you have an inline resource that approaches 1 GB in size (maximum size supported by PSF). If no resources can be deleted or none are near 1 GB in size, consult your system programmer.

System Programmer Response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17.

APS516I MESSAGES WERE LOST BECAUSE NOT ENOUGH VIRTUAL STORAGE WAS AVAILABLE.

Explanation: PSF could not obtain enough virtual storage for its control blocks or buffers. The REGION parameter on the startup procedure may be too small.

System Action: If no other terminating errors are encountered, the print request is processed. The message that was being processed when the error occurred is lost.

User Response: Correct the print request in response to the accompanying messages. If the error persists, notify your system programmer.

System Programmer Response: If necessary, the size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS517I MESSAGES WERE LOST BECAUSE THE BUFFER LIMIT WAS EXCEEDED.

Explanation: The maximum number of buffers allocated for writing messages was exceeded. The message that was being processed when the error occurred is lost.

System Action: Processing of the data set continues.

User Response: Correct the print request in response to the other messages associated with this error. Resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS518I RECOVERY IS {IN PROGRESS | SUCCESSFUL | UNSUCCESSFUL} FOR A LIBRARY EXTENT ERROR.

Explanation: A recovery from an extent error that occurred for a library either is in progress, or has been successfully or unsuccessfully completed. PSF recovers from this error by closing and then opening the library to obtain the new extents. This error occurs when the library is updated. The update causes more extents to be added after PSF has opened the library for processing.

System Action: If the recovery was unsuccessful, PSF abends. If the recovery was successful, processing continues. No response is necessary.

System Programmer Response: If recovery was unsuccessful, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center. See the other error messages for the PSF abend reason codes and system completion codes associated with this error.

Operator Response: If the recovery was unsuccessful, notify your system programmer.

Problem Determination: Items 1, 2, 3, 4, 9, 11, 15a, 15b, 17, 21b.

APS520I SYSTEM FUNCTION *system function* WAS UNSUCCESSFUL — RETURN CODE *return code*. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: The system function initiated by the RDJFCB macro was unsuccessful. An RDJFCB macro request, SVC 64, was issued to obtain the data set name of a library. After returning from the RDJFCB macro, register 15 contained a nonzero return code.

System Action: For the system action taken, see the other messages associated with this error.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the problem in response to the system return code identified in this message. The return code is from the system function that was used. Refer to *DFSMS/MVS Using Data Sets* to interpret the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS522I A READ ERROR WAS DETECTED. SYNADAF TEXT = *text name*. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: A physical error occurred on a READ macro request. The text of this message is in the format produced by the SYNADAF macro.

System Action: For the system action taken, see the other messages associated with this error.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Determine the cause of the error, using the SYNADAF text provided in this message. For information about the format of the SYNADAF text, refer to *MVS/ESA Data Administration: Macro Instruction Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS523I AN OBJECT CONTAINS ADDITIONAL RECORDS IN BLOCK *block*, RECORD *record*, THAT WERE NOT PROCESSED. THE PRINTED OUTPUT MAY BE ACCEPTABLE.

Explanation: The last record of the resource had been processed; however, the objects contained more records, which were not processed.

The *block* identified in this message contains the record identified in this message. The *record* contains the additional data. If the resource is stored in variable-unblocked format, the record number is always 1.

System Action: Processing of the data set continues. The additional data in the identified record is not processed.

User Response: If you created the structured fields for the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS527I THE LIBRARY MEMBER CANNOT BE PROCESSED BECAUSE IT WAS UPDATED DURING THIS ATTEMPT TO ACCESS IT. RESUBMIT THE JOB.

Explanation: An attempt was made to obtain the remainder of a library member contained in an extent that was added after PSF was started. PSF determined that the library member was updated after being processed as a part of the current print request. Library members should not be updated while PSF is actively processing print requests, as this can cause errors.

System Action: Processing of the library member ends. For further system action, see the other messages associated with this error.

User Response: Resubmit the print request.

System Programmer Response: Ensure that library members are not updated while PSF is processing.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS532I A *resource type* WITH MEMBER NAME (*library member*) WAS NOT FOUND — RETURN CODE *return code*, REASON CODE *reason code* RETURNED FROM SYSTEM (*system function*) FUNCTION.

Explanation: A BLDL request (SVC 18) was issued to position to the requested library member. BLDL returned the return code and reason code that display in the message. *Resource type* can be:

CODED FONT DEFINITION RESOURCE
PAGE DEFINITION RESOURCE
PAGE SEGMENT/OCA RESOURCE
FORM DEFINITION RESOURCE
MEDIUM OVERLAY RESOURCE
FONT CHARACTER SET RESOURCE
CODE PAGE RESOURCE
OBJECT CONTAINER RESOURCE
SECURITY DEFINITIONS

System Action: If the error occurred during initialization, PSF ends. PSF issues other messages identifying the processing environment in which the error was found. Additional System Action messages are also issued.

If the error occurred during processing, refer to the System Action messages to determine whether the page is terminated (MSGAPS100I), or whether PSF stops printing the data set (MSGAPS101I).

User Response: You may have sent your job to the wrong printer, or you may have sent it to the right printer but used the wrong resource-naming convention. For example, you may have used the coded font prefix **X0** when submitting a print request to the 3800 Model 3, 6, or 8. If you have specified your resource inline, you may have placed the resource group definition out of sequence in the data stream.

If the member should exist with the name identified in the message, consult your system programmer.

System Programmer Response: Determine the appropriate response by interpreting the return code and the reason code. To interpret the return code and the reason code, refer to *DFSMS/MVS Using Data Sets*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

AP55351 AN INVALID MEMBER NAME WAS SPECIFIED FOR A LIBRARY MEMBER.

Explanation: A structured field contained a member name for an overlay or a page segment that either is null or is not a valid PSF member name. An overlay name may be specified in one of the following places:

- A Map Medium Overlay (MMO) structured field in a form definition
- A Map Page Overlay (MPO) structured field in a page definition or in the MO:DCA data set

A page segment name can be specified in one of the following places:

- Map Page Segment (MPS) structured field in a page definition
- Overlay
- MO:DCA data

System Action: See accompanying messages for the action performed.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

AP55371 SYSTEM FUNCTION *system function* WAS UNSUCCESSFUL. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: An OPEN or CLOSE macro was unsuccessful. One of the following conditions caused this error:

- An OPEN macro request, which results in an SVC

19, was issued to open a library. After returning from the CLOSE macro, PSF discovered that the data control block (DCB) had not been opened.

- A CLOSE macro request, which results in an SVC 20, was issued to close a library. After returning from the CLOSE macro, PSF discovered that the DCB had not been closed.

System Action: If either the OPEN or CLOSE macro is unsuccessful, PSF ends.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: See the other messages for the PSF abend reason codes and system completion codes associated with this error.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

AP55381 AN EXTENT ERROR WAS DETECTED: MEMBER(*member*) IS NOT WITHIN KNOWN EXTENTS: EXTENT(*extent*), BIN(*bin*), CYLINDER(*cylinder*), HEAD(*head*), RECORD(*record name*), ACCESS-METHOD(*access method*).

Explanation: An extent error occurred while PSF was preparing to process a member or read a member from a library. When this occurs, the library is closed and then reopened to obtain any extents that were added after PSF was started. Another attempt is then made to process the member.

The extent error was caused by one of the following:

- An invalid seek address caused the wrong block of data to be read from the direct access storage device (DASD).
- The relative track address was converted to a seek address that is not within the extents of this library as defined in the data extent block (DEB).
- The read address was not within the extents of this library, as defined in the DEB, when PSF attempted to read a block of data from a DASD.

The extent, bin, cylinder, head, and record fields identified in this message are given in hexadecimal and indicate either the seek or the read DASD address that is invalid.

System Action: For the system action taken, see the other messages associated with this error.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: To determine the appropriate response, see the other messages associated with this error.

Operator Response: To determine the appropriate response, see the other messages associated with this error.

Problem Determination: Items 4, 9, 17, 20.

APS539I AN EXTENT ERROR WAS DETECTED: MEMBER(*member*) IS NOT WITHIN KNOWN EXTENTS.

Explanation: An extent error occurred while PSF was reading a member from a library. The error was reported to PSF by the BPAM access method. A CHECK macro was posted with a X'42', and an end-of-file was indicated.

System Action: The library is closed and then reopened to obtain any extents added after PSF was started. Another attempt is then made to process the member.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: See the other messages associated with this response. To obtain a dump at the time of failure, specify DUMP=(,APS539I,1) in the PRINTDEV statement.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS547I SYSTEM FUNCTION *system function* TERMINATED WITH AN ABEND - RETURN CODE *return code*, SYSTEM COMPLETION CODE *system completion code*. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: An error was detected when either the OPEN or the CLOSE macro was processing a data control block (DCB). This caused the DCB abend exit routine to receive control. The return code and the system completion code are issued by the data management problem-determination routines.

This message identified either the OPEN or CLOSE macro request as the system function that was unsuccessful.

System Action: PSF processing continues. If the abend cannot be ignored, the system returns to the problem-determination routine to continue the abend.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Use the return code and the system completion code to determine the cause of the error and an appropriate response. To interpret the return code and system completion code, refer to *OS/390 MVS System Codes* or *MVS/ESA Message Library: System Codes*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS548I WHEN THE ERROR REPORTED ABOVE OCCURRED, THE *item* BEING PROCESSED WAS {*library type* | *member type*} *NOT AVAILABLE***.**

Explanation: This message gives information about the processing environment in which the error occurred. *Item* can be:

DSNAME
DDNAME
LIBRARY RESOURCE TYPE
CONCATENATION NUMBER
MEMBER NAME
MEMBER/TOKEN NAME
DEFINITION TYPE
RESOURCE TYPE
TOKEN NAME

Library type will be the type or name of library that is being processed when the error occurred. It can be:

ddname
dsname
concatenation number
SYSTEM LIBRARY
USERLIB
FONT
SEGMENT/OCA
FORMDEF
PAGEDEF
OVERLAY
OBJECT CONTAINER
SECURITY DEFINITIONS
SECURITY FONT
SECURITY SEGMENT/OCA
SECURITY OVERLAY
INLINE FONT
INLINE SEGMENT/OCA
INLINE PAGEDEF
INLINE FORMDEF
INLINE OVERLAY
INLINE OBJECT CONTAINER

Member type will be the type of library member being processed when the error occurred. It can be:

member name
CODE PAGE RESOURCE
CODED FONT DEFINITION RESOURCE
FONT CHARACTER SET RESOURCE
FORM DEFINITION RESOURCE
MEDIUM OVERLAY RESOURCE
PAGE DEFINITION RESOURCE
PAGE SEGMENT RESOURCE
OBJECT CONTAINER RESOURCE
SECURITY DEFINITIONS RESOURCE
NOT AVAILABLE

One of the following is not available to this function: the ddname, the dsname, the member name, the definition type, the resource type, the library resource type, or the token name. ***ddname for a USERLIB*** is a system-generated name that consists of the characters 'SYS' followed by 5 digits.

System Action: For the system action taken, see the other messages associated with this error.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

APS551I THE RESOURCE EXIT REQUESTED THE SELECTIVE DELETION OF {PAGE SEGMENT | OVERLAY}. SELECTIVE DELETION OF THIS RESOURCE TYPE IS NOT SUPPORTED BY THE ATTACHED PRINTER.

Explanation: The resource exit requested a selective deletion for a printer that does not support selective deletion of this resource type.

System Action: All resources of this type are deleted from the printer.

User Response: No response is necessary.

System Programmer Response: Modify the exit code so that selective deletion of resources is not requested for a printer that does not support selective deletion of this resource type.

Operator Response: Consult your system programmer.

Problem Determination: None.

APS553I A RASTER OVERLAY (*raster overlay*) WAS SPECIFIED BUT NO ACCUMULATOR FEATURE EXISTS. THE OVERLAY WAS PROCESSED AS A CODED OVERLAY.

Explanation: The error occurred because a request was made to load an overlay as a raster overlay. The 3800 printer has no accumulator feature to load the raster overlay.

System Action: The overlay is processed and loaded into the printer not as a raster overlay but as a coded overlay. Printed output should be acceptable.

User Response: If a raster overlay is desired for this data set, ensure that the data set is routed to an output class for a printer with the accumulator feature. If the data set was being processed in direct-printing mode, ensure that the allocated printer has the accumulator feature.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS554I A RASTER OVERLAY *raster overlay* WAS SPECIFIED WHEN ONE ALREADY HAS BEEN LOADED. THE OVERLAY WAS PROCESSED AS A CODED OVERLAY.

Explanation: This error occurred because a request was made to load an overlay as a raster overlay. A raster overlay already occupies the accumulator.

System Action: The overlay is processed and loaded into the printer not as a raster overlay but as coded overlay. Printed output should be acceptable.

User Response: Ensure that multiple raster overlays are not required by the same data set. If the data set is spooled, ensure that the data set and the PSF startup procedure do not conflict in their raster-overlay requirements.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS555I THE RESOURCE EXIT REQUESTED A RELOADING OF {PAGE SEGMENT/OCA OBJECT | MEDIUM OVERLAY} *member name*. RELOADING OF THIS RESOURCE TYPE IS NOT SUPPORTED BY THE ATTACHED PRINTER.

Explanation: The resource exit requested a reloading of a resource. The selective-deletion required operation for this resource type is not supported by the attached printer.

System Action: The resource was not reloaded. Processing of the data set continues with the original copy of the resource.

User Response: No response is necessary.

Problem Determination: Items 2, 17.

System Programmer Response: Modify the exit code so that selective deletion of resources is not requested for a printer that does not support selective deletion of this resource type.

Operator Response: Consult your system programmer.

Problem Determination: None.

APS556I THE REQUESTED CHARACTER ROTATION FOR {CODED FONT | CP/FN PAIR} *member name* IS NOT SUPPORTED BY THE PRINTER.

Explanation: The font and its character rotation were specified in the Map Coded Font Font (MCF) structured field. The printer does not support the requested character rotation for resident fonts or resident symbol sets. If the CHARS or UCSJCL keywords were used in specifying the font being used, PSF constructed the MCF structured field.

System Action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream containing the resource. PSF issues other messages identifying the processing environment in which the error occurred.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. For information on supported character rotations for resident fonts or resident symbol sets, refer to the publications for your printer. For more information about the MCF structured field, refer to *Mixed Object Document Content Architecture Reference*.

If you used a program to create the structured fields for the print data set or the resource, verify that a supported character rotation was specified for the resident font or resident symbol set. For information on supported character rotations for resident fonts or resident symbol sets, refer to the publications for your printer. If the specified character rotation is supported by the printer, consult your system programmer.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 19.

APS557I REGION WAS TOO SMALL FOR PROCESSING {CODED FONT | FONT CHARACTER SET | CODE PAGE | PAGE SEGMENT | OVERLAY | FORMDEF | PAGEDF | OBJECT CONTAINER } *member name*.

Explanation: The GETMAIN macro attempted to obtain space for the resources identified in this message, but was unsuccessful because of a lack of storage.

System Action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages identifying the processing environment in which the error occurred.

User Response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, consult your system programmer.

System Programmer Response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17.

APS560I A DOUBLE-BYTE FONT WAS SPECIFIED FOR A PRINTER THAT DOES NOT SUPPORT DOUBLE-BYTE FONTS.

Explanation: A request to use a double-byte font was made to a printer that does not support double-byte fonts.

System Action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues other messages identifying the processing environment in which the error occurred.

User Response: If double-byte fonts are required, resubmit the print request to a printer that supports double-byte fonts. If double-byte fonts are not required, remove the reference to them from the print data set,

resource, or JCL CHARS parameter, and resubmit the print request to the original printer.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS5611 REGION WAS TOO SMALL FOR PROCESSING {FORMDEF | PAGEDEF | CODED FONT | PAGE SEGMENT/OCA OBJECT | MEDIUM OVERLAY | OBJECT CONTAINER } (member name).

Explanation: The GETMAIN macro attempted to obtain space for the resource identified in this message, but was unsuccessful because of a lack of storage.

System Action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages identifying the processing environment in which the error occurred.

User Response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, consult your system programmer.

System Programmer Response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17.

APS5621 CODED FONT MEMBER NAME *member name* SPECIFIED IN AN MCF STRUCTURED FIELD COULD NOT BE MAPPED TO CODE PAGE AND FONT CHARACTER SET MEMBER NAMES.

Explanation: Coded Font member names specified in a Map Coded Font (MCF) format 2 structured field contain an eight-byte Global Resource ID (GRID) that PSF maps to code page and font character set member names. The GRID specified in the message text was not mapped correctly to a code page, to a font character set, or to both of those objects. The MCF structured field is contained in a MO:DCA document, an overlay, or a page definition.

System Action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User Response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17, 19.

APS563I {CODED FONT | CP/FN PAIR | PAGE SEGMENT/OCA OBJECT | MEDIUM OVERLAY | PAGEDEF | FORMDEF | OBJECT CONTAINER} *member name* WAS REPLACED BY {CODED FONT | CP/FN PAIR | PAGE SEGMENT/OCA OBJECT | MEDIUM OVERLAY | PAGEDEF | FORMDEF | OBJECT CONTAINER} *member name* (optional text).

Explanation: The resource exit requested substitution of a CODED FONT (a code page/character set pair, abbreviated CP/FN PAIR), a PAGE SEGMENT/OCA OBJECT, a MEDIUM OVERLAY, a PAGEDEF, a FORMDEF, or an OBJECT CONTAINER. The member name of the resource originally specified, and the member name of the resource to be substituted, are provided. Optional message text may also be provided.

System Action: PSF replaces the substitution resource for all references of the resource requested by the user.

User Response: If the printed output is not acceptable, consult your system programmer.

System Programmer Response: You may use the *optional text* field of the message to provide further explanation for the user as to why this resource was replaced. For more information on how to provide optional message text, refer to *PSF for OS/390: Customization*.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 8, 19.

APS564I {CODE PAGE | FONT CHARACTER SET} *member name* SPECIFIED IN A CFI OR AN MCF STRUCTURED FIELD IS NOT MAPPED TO A RESIDENT SYMBOL SET IN THE PSF RESIDENT FONT TABLE (APSRFTBL).

Explanation: PSF could not find the code page or font character set member name in the PSF Resident Font Table (APSRFTBL). The code page and font character set were specified in a Coded Font Font Index (CFI) or a Map Coded Font Font (MCF) structured field. The CFI structured field is in a coded font. The MCF structured field may be in the MO:DCA data set, an overlay, or a page definition.

System Action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages

identifying the processing environment in which the error occurred.

User Response: Verify that the font character set name and the code page name are specified correctly. If the names contain an error, correct the error and resubmit the print request. If the names are correct, consult your system programmer.

System Programmer Response: Verify that the combination of requested font character set and code page member names is a valid symbol set that is resident in the printer. Refer to your printer publications and to *PSF for OS/390: Customization*. If the symbol set is valid, add the missing code page or font character set entry to the APSRFTBL. For information on how to modify APSRFTBL, refer to *PSF for OS/390: Customization*.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17, 27.

APS565I AN ATTEMPT WAS MADE TO ACTIVATE A PRINTER-RESIDENT FONT USING GLOBAL RESOURCE ID *grid*. THE ATTEMPT WAS NOT SUCCESSFUL.

Explanation: The Global Resource Identifier (GRID) is used to identify a printer-resident font. The GRID is composed of four 2-byte numeric identifiers:

- Font Global Identifier
- Graphic Character Set Global Identifier
- Code Page Global Identifier
- Font Width

PSF attempts to activate a printer-resident font through the GRID because:

- The font character set and code page names could not be mapped from the GRID by use of either the system mapping tables or the APSRNTGM or APSRGTM user-modifiable tables.

The GRID provided in the message text did not identify a printer-resident font; therefore it could not be activated.

System Action: If the error occurred during initialization, PSF ends. PSF issues other messages identifying the processing environment in which the error was found. Additional System Action messages are also issued.

If the error occurred during processing, refer to the System Action messages to determine if the page is terminated (MSGAPS100I) or if PSF stops printing the data set (MSGAPS101I).

User Response: If you wanted to use a printer-resident font, ensure that the GRID identified in the message is specified correctly. See the documentation for your printer. If the GRID contains an error, correct the error and resubmit the print request.

If you wanted to use a code page and font character set pair from the library, ensure that the APSRNTGM and APSRGTM tables correctly map the GRID to a pair of code page and font character set names that exist in the system font library. If the tables do not correctly map the GRID to existing library members, follow the procedures to modify the tables and relink them with PSF, and resubmit the print request.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 8, 17, 19.

APS566I AN ATTEMPT WAS MADE TO ACTIVATE A CODED FONT *member name* USING FONT CHARACTER SET *member name*, CODE PAGE *member name*, VERTICAL FONT SIZE *size*, HORIZONTAL FONT SIZE *size*, AND HORIZONTAL SCALE FACTOR *scale factor*. THE ATTEMPT WAS NOT SUCCESSFUL.

Explanation: PSF was attempting to activate a coded font but was not successful. To activate the coded font, the code page and the font character set should have already been loaded in the printer or activated. The message contains the member names of the coded font, the code page, and the character set that were involved in this error. Also included in the message are the vertical and horizontal font sizes and the horizontal scale factor.

Some possible causes of this error are as follows:

- A coded font with the same HAID was already active. This would be a PSF logic error.
- The printer found something wrong with the values specified in the Active Resource command. This would be a PSF logic error.
- The font character set or the code page was not activated or loaded in the printer before the coded font was activated. This would be a PSF logic error.
- The character set and the code page are not compatible. A user can create a coded font resource that specifies a font character set and a code page that cannot be used together.

System Action: PSF was unable to activate all the resources in the printer that were required for printing this page. As a result, PSF will not print the page containing the error.

PSF issues a message identifying the page containing the resource that had the error. PSF will issue other messages identifying the processing environment in which the error was found.

User Response: Ensure that the code page and the font character set for the coded font that contains the error are compatible. For information about how to select compatible code pages and font character sets, refer to *Font Object Content Architecture (FOCA) Reference*, S544-3285. If the code page and the font character set are compatible, this may be a PSF logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer that this error occurred.

Problem Determination: Items 2, 8, 17, 19.

APS568I A BEGIN STRUCTURED FIELD FOR {CODE PAGE | PAGE SEGMENT | FONT CHARACTER SET | UNKNOWN | OVERLAY } *member name* WAS NOT MARKED BY THE APSRMARK UTILITY OR WAS MARKED INCORRECTLY FOR USE WITH DISTRIBUTED PRINT FUNCTION. LINE UTILIZATION MAY BE EXCESSIVE.

Explanation: This failure is caused by an unsuccessful attempt to interrogate the Begin structured field for the identified resource. The Begin structured field either contains an error or is not marked by the APSRMARK utility for use with the Distributed Print Function (DPF) of Print Services Facility/2 (PSF/2).

System Action: Because PSF is unable to obtain information to determine the presence of this resource in the printer, processing is performed as if the resource in question were a private resource. The resource is sent to the printer rather than any remote resource that may be equivalent. PSF continues processing data, and the printed output is acceptable; however, printer performance is degraded.

PSF issues a message identifying the position of the structured field in the input data stream or in the containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User Response: If you wanted DPF to process the resource, consult your system programmer. If you did not want DPF to process the resource, no response is necessary.

System Programmer Response: If DPF was supposed to process the resource, ensure that the resource was marked by the APSRMARK utility. If it was, the error may be a PSF logic error. If DPF was not to process the resource, no response is necessary. For information about how to mark a resource by use of APSRMARK, refer to *PSF for OS/390: Customization*.

Operator Response: Inform your system programmer that this error occurred. For information about how to use APSRMARK to mark a resource, refer to *PSF for OS/390: Customization*.

Problem Determination: Items 2, 17, 19.

APS569I AN ATTEMPT WAS MADE TO PRINT WITH DOUBLE BYTE FONT CHARACTER SET EXTENSION *childfont*, BUT THE ASSOCIATED PRINTER-RESIDENT FONT COULD NOT BE ACTIVATED.

Explanation: The double-byte font that you selected has some characters defined in the double-byte character extension in the message as *childfont*. These are intended to be additions to a printer-resident double-byte font. However, the printer does not have the required double-byte font as a resident font. Therefore, PSF cannot activate (build) the combined font.

System Action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User Response: If the double-byte font is required, resubmit the print request to a printer that has the required resident double-byte font. If the double-byte font is not required, remove the reference to it from the print data set, resource, or JCL CHARS parameter, and resubmit the print request to the original printer.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 17.

APS570I A BLDL FAILURE OCCURRED DURING RESOURCE MANAGER INITIALIZATION, BLDL RETURN CODE *return code*, BLDL REASON CODE *reason code*.

Explanation: While PSF was locating the APSRNTGM and APSRGTNM tables, the BLDL macro failed.

System Action: Processing continues without the APSRNTGM and APSRGTNM tables.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Evaluate the BLDL macro return and reason codes to determine the cause of this failure. For more information, refer to *MVS/ESA: Macro Instruction Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS571I CODE PAGE *member name* AND FONT CHARACTER SET *member name* ARE ASSOCIATED WITH THE REPORTED FONT ERROR.

Explanation: The code page and font character set identified in the message text were used to activate the font that caused the reported error. These resources may have been used to activate a printer-resident font, in which case the printer-resident font may contain the error.

System Action: See the accompanying messages for the system action that was taken.

User Response: If the accompanying messages are not sufficient to identify the problem, contact your system programmer.

System Programmer Response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: No response is necessary.

Problem Determination: None

APS573I OVERLAY *member name* CONTAINS AN ERROR THAT MAY PREVENT THE PRINTER FROM PRINTING THE PAGE. IF THE PAGE IS PRINTED, THE RESULTING OUTPUT MAY BE UNACCEPTABLE.

Explanation: The specified resource contains a data-stream exception (such as a position error). For details on the type of data-stream exception, look at the environmental message(s) issued with the first APS573I

message. One of the environmental messages will state the page number on which the error was first detected. Scan past all other APS573I messages in the message data set, and search for the next message group containing the same page number; it will contain the message for the error in the resource.

System Action: The printer you were using may attempt to print the page containing the error or may print only part of the page. If the page that contains the error contains any positioning errors, print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page that contains the error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Find the detailed error message for the resource by following the directions given in the Explanation. Correct the problem by following the User Response for that message.

System Programmer Response: No response is necessary. No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS574I REGION WAS TOO SMALL FOR PROCESSING {CP/FN PAIR | CODED FONT | PAGE SEGMENT} member name.

Explanation: The GETMAIN macro attempted to obtain space for the resource identified in this message but was unsuccessful due to a lack of storage.

System Action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User Response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, consult your system programmer.

System Programmer Response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17.

APS575I REGION WAS TOO SMALL FOR PROCESSING OVERLAY member name.

Explanation: The GETMAIN macro attempted to obtain space for the resource identified in this message, but was unsuccessful because of a lack of storage.

System Action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User Response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, consult your system programmer.

System Programmer Response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17.

APS576I REGION WAS TOO SMALL FOR PROCESSING APSRMARK DATA IN BEGIN STRUCTURED FIELD OF {FONT CHARACTER SET | CODE PAGE | PAGE SEGMENT | OVERLAY} member name.

Explanation: PSF attempted to obtain storage for a work area necessary to process APSRMARK data that was in the specified resource, but PSF was unsuccessful because of a lack of storage. The resource can be a code page, a font character set, a page segment, or a medium overlay. PSF needs this space to determine the presence of remote or resident resources.

System Action: Because PSF has insufficient storage to determine the presence of these resources (resident either in the printer or in the Distributed Print Function resource library), processing will be performed as if these resources did not exist as remote or resident resources. Resources will be sent to the printer instead of using any remote or resident resources that may be equivalent. PSF will continue processing data, and the printed output should be acceptable; however, performance of the printer is degraded.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User Response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, consult your system programmer.

System Programmer Response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17.

APS577I REGION WAS TOO SMALL FOR PROCESSING {PAGEDEF | FORMDEF | CODED FONT | CODE PAGE | FONT CHARACTER SET | PAGE SEGMENT | OVERLAY | OBJECT CONTAINER} member name.

Explanation: The GETMAIN macro attempted to obtain space for the resource identified in this message, but was unsuccessful because of a lack of storage.

System Action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages identifying the processing environment in which the error was found.

System Programmer Response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17.

APS580I APSRMARK control statement

Explanation: This message echoes each APSRMARK control statement after it is processed.

System Action: This message is only for information.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS581I UNABLE TO OPEN INPUT RESOURCE DATA SET. CHECK INDD FOR ERRORS.

Explanation: The data set defined by the JCL statement referred to by the INDD control parameter (as shown in the listing) could not be opened for input. The reason is probably that a JCL statement is invalid or missing.

System Action: Processing of this control statement is terminated.

User Response: Correct the JCL and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS582I INPUT RECFM IS INVALID FOR RESOURCE DATA. CHECK INDD FOR ERRORS.

Explanation: The data set defined by the JCL statement referred to by the INDD control parameter (as shown in the listing) has a fixed-record format. The resource data is expected to be in variable-record format. The reason for the failure is probably that a data set is defined incorrectly in the JCL statement referred to by the INDD control parameter.

System Action: The processing of this control statement is terminated.

User Response: Change the JCL to refer to a valid resource data set, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS583I INPUT LRECL IS INVALID FOR RESOURCE DATA. CHECK INDD FOR ERRORS.

Explanation: The data set defined by the JCL statement referred to by the INDD control parameter (as shown in the listing) has a logical record length greater than 32767. The resource data is expected to have a logical record length less than 32768. The reason for the failure is probably that a data set is defined incorrectly in the JCL statement referred to by the INDD control parameter.

System Action: The processing of this control statement is terminated.

User Response: Change the JCL to refer to a valid resource data set, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS584I UNABLE TO OPEN OUTPUT DATA SET. CHECK OUTDD FOR ERRORS.

Explanation: The data set defined by the JCL statement referred to by the OUTDD control parameter (as shown in the listing) could not be opened for output, probably because a JCL statement is invalid or missing.

System Action: The processing of this control statement is terminated.

User Response: Correct the JCL and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS585I RESOURCE DATA COPIED TO OUTPUT BUT WAS UNMARKED.

Explanation: Coded Font fonts, form definitions, and page definitions are not marked by the APSRMARK utility. They are copied to the output without modification. Only code pages, font character sets, overlays, and page segments can be marked by the APSRMARK utility.

System Action: The processing of this control statement continues.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS586I PREMATURE END-OF-FILE DETECTED ON INPUT. INPUT MAY NOT BE VALID DATA FORMAT.

Explanation: The input data set is scanned for a valid Begin structured field and its corresponding End structured field. One or the other of these structured fields could not be found in the input data set. Either the resource was missing a Begin or End structured field, or nonresource data was input to the APSRMARK utility. Only page segments, overlays, code pages, and font character sets are valid input.

System Action: Processing of this control statement is terminated.

User Response: If you created the structured fields for the resource and you did not intend to have the resource marked, correct your JCL and APSRMARK control statements and resubmit the APSRMARK job. If the resource's structured fields are correct, and you intended to mark the resource, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS587I UNABLE TO OPEN CONTROL STATEMENT DATA SET. CHECK SYSIN FOR ERRORS.

Explanation: The data set defined by the SYSINDD statement could not be opened for input, probably because a JCL statement is invalid or missing.

System Action: All processing is terminated.

User Response: Correct the JCL and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS588I INPUT RECFM IS INVALID FOR CONTROL STATEMENT DATA SET. CHECK SYSIN FOR ERRORS.

Explanation: The data set defined by the SYSINDD statement has an invalid record format. The control statement data set must have a fixed record format. The reason for this failure is probably that a data set was defined incorrectly in the SYSINDD statement.

System Action: All processing is terminated.

User Response: Correct the SYSINDD statement, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS589I INPUT LRECL IS INVALID FOR CONTROL STATEMENT DATA SET. CHECK SYSIN FOR ERRORS.

Explanation: The data set defined by the SYSINDD statement has an invalid logical record length. The control statement data set must have a logical record length of 80. The reason for this failure is probably that a data set was defined incorrectly in the SYSINDD statement.

System Action: All processing is terminated.

User Response: Correct the SYSINDD statement, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS590I INVALID CONTROL STATEMENT SYNTAX. STATEMENT IGNORED.

Explanation: The syntax of a control statement is invalid. This failure is probably caused by typing errors.

System Action: The processing of this control statement is terminated.

User Response: Correct the control statement syntax, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS591I MPS STRUCTURED FIELD ADDED TO OVERLAY.

Explanation: In an overlay, a soft page segment, identified with an Include Page Segment (IPS) structured field, was converted to a hard page segment by adding a Map Page Segment (MPS) structured field to the active environment group of the overlay. This change was made during APSRMARK processing, so that any updates to the page segment referenced in the overlay would be detected by the Distributed Print Function (DPF) of Print Services Facility/2.

System Action: PSF processing continues.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS592I PROCESSING ABORTED FOR MEMBER *member name*.

Explanation: The input resource data could not be processed successfully. Previous error messages describe the precise error condition.

System Action: PSF stopped processing for this member.

User Response: To determine an appropriate response, see the specific error condition described in the accompanying messages.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS593I BEGIN RECORD TRUNCATED DUE TO UNRECOGNIZED EXTENSION.

Explanation: The input resource data does not conform to the format expected for a valid Begin structured field. This message warns that the Begin structured field has been changed to conform to the expected architecture and that information has been dropped from the Begin structured field.

System Action: The Begin structured field is changed, and processing continues.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Ensure that no applications are affected by the changes to the Begin structured field.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS594I PROCESSING COMPLETED.

Explanation: The input resource data has been processed successfully.

System Action: This message is only for information.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Item 3.

APS595I PROCESSING COMPLETED FOR MEMBER *member name*.

Explanation: The input resource data for the specified member has been processed successfully.

System Action: This message is only for information.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS596I OUTPUT RECFM IS INVALID FOR RESOURCE DATA. CHECK OUTDD FOR ERRORS.

Explanation: The data set defined by the JCL statement referred to by the OUTDD control parameter (as shown in the listing) has a fixed-record format. The resource data is expected to be in variable-record format. The reason for this failure is probably that a data set is defined incorrectly in the JCL statement referred to by the OUTDD control parameter.

System Action: Processing of this control statement is terminated.

User Response: Change the JCL to reference a valid resource data set, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS597I OUTPUT LRECL IS INVALID FOR RESOURCE DATA. CHECK OUTDD FOR ERRORS.

Explanation: The data set defined by the JCL statement referred to by the OUTDD control parameter (as shown in the listing) has a logical record length greater than 32767. The resource data is expected to have a logical record length less than 32768. The reason for this failure is probably that a data set was defined incorrectly in the JCL statement referred to by the OUTDD control parameter.

System Action: The processing of this control statement is terminated.

User Response: Change the JCL to refer to a valid resource data set, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS598I INPUT DATA SET SPECIFIED BY INDD DOES NOT CONTAIN MEMBER *member name*.

Explanation: The data set defined by the JCL statement referred to by the INDD control parameter (as shown in the listing) does not contain the referenced *member name*. This failure is probably caused by a typing error on the control statement.

System Action: Processing for this *member name* is terminated.

User Response: Correct the control statement to refer to a valid member name, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS599I MEMBER ALREADY EXISTS IN DATA SET SPECIFIED BY OUTDD. USE REPLACE TO UPDATE MEMBER *member name*.

Explanation: The data set defined by the JCL statement referred to by the OUTDD control parameter (as shown in the listing) already contains the referenced *member name*. To overwrite an existing member, the REPLACE parameter must be specified on the control statement.

System Action: Processing for this *member name* is terminated.

User Response: Correct the control statement to specify REPLACE, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS600I USER IS NOT AUTHORIZED TO OVERRIDE DEFAULT VALUE.

Explanation: This message is issued when DPAGELBL or SYSAREA parameter is equal to YES on the PRINTDEV statement, and the user specifies NO without correct Resource Access Control Facility (RACF) authorization.

System Action: PSF will release the current data set back to JES and will request that it be held by the system.

User Response: Ask the system security administrator for permission to override the default values, or change the output so that it will not override the default.

System Programmer Response: Determine whether the user should be authorized to override SYSAREA or DPAGELBL. If the user should be authorized, use RACF to give the user the appropriate authorization. For information on how to do this, see the RACF publications for your operating system.

Operator Response: Notify the security administrator of this error. For a command to release the data set for printing after the problem has been corrected, refer to the publication containing JES operator commands for your operating system.

Problem Determination: Items 2, 9, 11.

APS601I USERLIB SPECIFICATION IS IGNORED.

Explanation: The Job Entry Subsystem did not provide PSF the UTOKEN parameter required in order to perform a RACF authorization check for a user library (USERLIB). This condition can arise if the correct prerequisite level of OS/390, MVS, RACF, or JES is not installed, or if any of those programs contains a logic error.

System Action: Processing of the data set will continue, using system libraries only.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Ensure that the correct levels of OS/390, MVS, RACF, and JES for this version of PSF are installed. If the correct levels are installed, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 27.

APS602I PSF FAILED TO FIND CNTL STATEMENT control statement IN CURRENT STEP, REASON CODE = reason code.

Explanation: PSF invoked the Scheduler JCL Facility (SJF) to find the scheduler work block for the control statement in the current step specified by the CNTL keyword on the DD statement. The SJF FIND macro failed and returned the reason code identified in this message. The values of the reason codes and their meanings are as follows:

- X'1': The FIND macro was successful.
- X'190': The specified SWB chain was not found.
- X'191': The STEP or PROC name was not found.
- X'192': The specified DD label was not found.
- X'193': No search bits were specified in the parameter list.

- X'194': Undefined bits were specified in the parameter list.
- X'195': The control group was not found.
- X'196': A step name was not specified in the parameter list.
- X'197': An invalid starting address was specified in the parameter list.

System Action: PSF fails to initialize.

User Response: No response is necessary.

System Programmer Response: This error was probably caused by an error in specifying the JCL statements for the writer procedure. For information about specifying JCL statements, refer to *PSF for OS/390: Customization*. Correct the error and restart the procedure. If you have made any changes to the startup procedure, be sure to CANCEL the STARTED TASK before trying again.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS603I PRINTDEV VERB NOT FOUND WITHIN CNTL GROUP control group.

Explanation: PSF invoked the Scheduler JCL Facility (SJF) to find the scheduler work block chain for a PRINTDEV verb in the control group identified in this message. The PRINTDEV verb was not found.

System Action: PSF fails to initialize.

User Response: No response is necessary.

System Programmer Response: Omission of the PRINTDEV JCL statements in the PSF startup procedure probably caused this error. For information about specifying JCL statements for the PSF startup procedure, refer to *PSF for OS/390: Customization*. Correct the error and restart the procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 2, 17, 27.

APS604I ONE OR MORE KEYWORDS REQUIRED TO INITIALIZE AN SNA DEVICE WAS NOT SPECIFIED ON THE PRINTDEV STATEMENT. ALL REQUIRED KEYWORDS MUST BE SPECIFIED BEFORE THE PROCEDURE CAN BE STARTED.

Explanation: To start an SNA-attached printer, all required keywords must be specified.

System Action: PSF fails to initialize.

User Response: No response is necessary.

System Programmer Response: Ensure that all required keywords for the SNA-attached printer are specified in the PRINTDEV JCL statement in the PSF startup procedure. For more information, refer to *PSF for OS/390: Customization*. The required SNA-attached keywords are:

- LUNAME—VTAM node name for the printer
- APPLID—VTAM node name for the FSA

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 24, 26.

APS605I VIRTUAL STORAGE COULD NOT BE ACQUIRED FOR TRACING. {ALL | EXTERNAL} TRACING FOR {prtname | fssname} HAS BEEN CANCELED.

Explanation: Virtual storage could not be acquired for all the required trace control blocks. The indicated trace type(s) have been canceled.

System Action: The indicated type(s) of tracing were canceled.

User Response: No response is necessary.

System Programmer Response: Increase the REGION size specified in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 8, 17.

APS606I PERMANENT I/O ERROR OCCURRED ON TRACE DATA SET, *unit name, ddname, device type, command, error.*

Explanation: The PSF SYNAD routine encountered a permanent I/O error on the trace data set.

System Action: Tracing stops.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Correct the error on the basis of the information provided by the message.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Item 1, 2, 8, 17, 18, 19.

APS607I TRACING TO DDNAME (*ddname*) HAS {STARTED | STOPPED}.

Explanation: This indicates that the output trace for PSF has started or stopped. If you are tracing the FSA, *ddname* matches the name of the CNTL statement. If you are tracing the Notify Subtask, *ddname* is the name of the DD statement defining the data set for tracing the Notify Subtask. If you are tracing both, two messages are issued.

System Action: Processing of the data set continues.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 15, 19.

APS608I PSF GTF TRACING HAS BEEN {ACTIVATED | DEACTIVATED}.

Explanation: PSF has activated or deactivated tracing to Generalized Trace Facility (GTF). When activated, PSF Generalized Trace Facility issues the GTRACE macro request to have trace data written to the GTF data set. When deactivated, PSF stops writing trace data to GTF.

System Action: PSF continues processing the data.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 17, 27.

APS609I MUTUALLY EXCLUSIVE KEYWORDS SPECIFIED ON THE PRINTDEV STATEMENT. SNA-REQUIRED KEYWORDS WERE SPECIFIED WITH TCP/IP-REQUIRED KEYWORDS FOR THE SAME DEVICE.

Explanation: To start the printer, conflicting protocol keywords must be removed from a PRINTDEV JCL statement in the PSF startup procedure.

System Action: PSF fails to initialize.

User Response: No response is necessary.

System Programmer Response: Remove the keywords from the PRINTDEV JCL statement for the protocol not used to communicate with the device. For more information on how to code a PRINTDEV statement, refer to *PSF for OS/390: Customization*. The keywords required for an SNA-attached printer are:

- LUNAME—VTAM node name for the printer
- APPLID—VTAM node name for the FSA

The keyword required for a TCP/IP-attached printer is:

- IPADDR—Internet Protocol (IP) address for the printer

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 24, 16.

APS610I GTF RETURN CODE = rc: error text.

Explanation: Generalized Trace Facility (GTF) has returned a nonzero return code from the GTRACE request. The return code *rc* and the *error text* explain the error. The return codes and error text are:

04 inactive MVS GTF
08 invalid length = xxxx
0C invalid data address = xxxx
10 invalid FID = xx
14 invalid EID = xx
18 no GTF buffer space
1C invalid parameter address = xxxx
20 data paged out
xx unknown GTF return code

PSF issues this message when attempting to start a PSF trace and direct its output to the GTF trace data set. If the message is received, GTF may not have been started with the correct USR event IDs. If you use the command

```
MODIFY FSSname, TRACEON, PRTxxx,FORMAT=GTF
```

to start PSF tracing, you must specify USR=(FD0,FD4). If you do not want both types of event, start GTF with the appropriate event ID. Then, if you want FD0, add EID=PSF to the MODIFY command; or, if you want only FD4 entries, add EID=FSI to the MODIFY command.

System Action: The action depends on the return code; PSF may or may not continue tracing. For return codes 18 and 20, GTF tracing continues. For the other return codes listed, GTF tracing stops. For unknown return codes, GTF tracing stops.

User Response: No response is necessary.

System Programmer Response: For more information on the return codes, refer to *OS/390 MVS Diagnosis: Tools and Service Aids, OS/390 MVS Diagnosis: Reference or MVS/ESA Component Diagnosis and Logic: Service Aids*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 27.

APS611I COMMAND(TRACEOFF) NOT PROCESSED — TRACING IS NOT ACTIVE.

Explanation: The TRACEOFF command was not processed, because tracing was not active.

System Action: PSF continues processing.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 17, 27.

APS612I COMMAND(command) NOT PROCESSED — NO TRACE DDNAME STATEMENT SPECIFIED FOR (printer-name | notify task).

Explanation: A trace request was received for a printer or notify task, but no *trace ddname* statement was in the startup procedure.

System Action: The entire command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: Update the startup procedure with a DD statement to contain the trace output.

Operator Response: Ask your system programmer to add a *ddname* statement to the startup procedure, or start tracing with the GTF format.

Problem Determination: Items 1, 17, 27.

APS613I COMMAND(command) NOT PROCESSED — PRINTER(printer-name) IS NOT ACTIVE.

Explanation: The printer-name specified in a command was not active.

System Action: PSF continues processing.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again after starting the named printer.

Problem Determination: Items 1, 17, 27.

APS614I THE VALUE SPECIFIED FOR THE keyword KEYWORD ON THE OUTPUT STATEMENT IS NOT VALID.

Explanation: The value given for the indicated keyword contained embedded blanks or too many decimal digits, or it specified an unrecognized unit.

System Action: The data set is not printed.

User Response: Correct the specification for the keyword and resubmit the job.

System Programmer Response: If the error is on an OUTPUT statement for a separator page or the message data set, correct the specification for the keyword in the PSF startup procedure and restart the FSA.

Operator Response: No response is necessary.

Problem Determination: Items 2, 3.

APS615I RESPTIME OR NORESP KEYWORD SPECIFIED WITHOUT THE OTHER ON THE *prtnnnn* PRINTDEV STATEMENT.

Explanation: The NORESP keyword defines the action to be taken when the time specified by the RESPTIME keyword expires. If one of these keywords is specified, both must be given. Only one of them was specified.

System Action: FSA startup for PRINTER *prtnnnn* is aborted.

User Response: No response is necessary.

System Programmer Response: Correct the PRINTDEV statement for *prtnnnn*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 24.

APS616I THE NORESP KEYWORD ON THE *prtnnnn* PRINTDEV STATEMENT CONTAINS AN INVALID ACTION PARAMETER.

Explanation: The NORESP keyword was specified on the PRINTDEV statement for printer *prtnnnn* with an invalid action type.

System Action: FSA startup for printer *prtnnnn* is aborted.

User Response: No response is necessary.

System Programmer Response: Correct the PRINTDEV statement for printer *prtnnnn*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 24.

APS617I THE FORMAT OF THE NOTIFY OPTION OF THE NORESP KEYWORD IS INVALID ON THE *prtnnnn* PRINTDEV STATEMENT.

Explanation: NORESP=NOTIFY was specified on the PRINTDEV statement for printer *prtnnnn*, but the format of the NOTIFY option was incorrect.

System Action: FSA startup for printer *prtnnnn* is aborted.

User Response: No response is necessary.

System Programmer Response: Correct the PRINTDEV statement for *prtnnnn*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 24.

APS620A ENTER PSF COMMAND OR U – USING THE MVS MODIFY COMMAND.

Explanation: The PSF operator interface has not been initialized.

System Action: PSF initialization continues.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: You can do one of the following:

- Enter MODIFY commands for only the FSS (commands cannot be entered that specify the printer name); then initialize the PSF operator interface.
- Initialize the PSF operator interface.

To initialize the PSF operator interface, enter:

{MODIFY F} *fsname*,U

where *fsname* is the name of the PSF FSS as provided in the message. Do *not* enter a printer name, or the command will be rejected. After the PSF operator interface is initialized, you can enter any PSF operator commands.

Problem Determination: Items 1, 17, 27.

APS621I PSF OPERATOR INTERFACE INITIALIZED.

Explanation: The PSF operator interface has been initialized successfully. All PSF commands can now be entered.

System Action: PSF initialization continues.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: PSF commands can now be entered.

Problem Determination: None.

APS622I NOT ENOUGH STORAGE IS AVAILABLE TO INITIALIZE THE PSF OPERATOR INTERFACE — STORAGE REQUESTED = *size* RETURN CODE = *code*.

Explanation: Not enough storage is available for control blocks or work areas. The message indicates the size of the storage being requested, and the return code is from the MVS GETMAIN macro.

System Action: The PSF operator interface is not initialized. PSF initialization continues.

User Response: No response is necessary.

System Programmer Response: Increase the REGION parameter on the procedure used to start PSF.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 27.

**APS623I THE PSF OPERATOR INTERFACE
INITIALIZATION WAS UNSUCCESSFUL
— MODULE(*module name*).**

Explanation: The PSF operator interface was not initialized successfully. A functional command initialization module returned a nonzero return code.

System Action: The PSF operator interface is not initialized. PSF initialization continues.

User Response: No response is necessary.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 9.

**APS624I THE PSF OPERATOR INTERFACE IS
BEING TERMINATED — MODULE(*module
name*) HAS TERMINATED.**

Explanation: An abend has occurred in a module that has had a previous abend condition. Because the previous abend and this abend involve the same module, no recovery of the operator interface is attempted.

System Action: The PSF operator interface is terminated.

User Response: No response is necessary.

System Programmer Response: If you suspect a PSF logic error, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 9, 11.

**APS625I THE PSF OPERATOR INTERFACE HAS
BEEN TERMINATED.**

Explanation: The PSF operator interface has had an unrecoverable error.

System Action: The PSF operator interface is terminated.

User Response: No response is necessary.

System Programmer Response: If you suspect a PSF logic error, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: PSF must be purged and restarted to activate the operator interface.

Problem Determination: Items 1, 9, 11.

**APS626I PSF OPERATOR INTERFACE RECOVERY
IS {IN PROGRESS | SUCCESSFUL |
UNSUCCESSFUL} — FOR
MODULE(*module name*).**

Explanation: The PSF operator interface has had an error, and recovery is attempted. The error occurred in the named module.

System Action: If recovery is successful, normal command processing is continued. If recovery is unsuccessful, the PSF operator interface is terminated.

User Response: No response is necessary.

System Programmer Response: To determine the appropriate action, see the problem-determination table.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 9, 11.

**APS627I PSF FSA *printer-name* HAS BEEN
TERMINATED WITH THE FORCE
COMMAND.**

Explanation: The operator has issued an MVS modify FORCE command for the specified *printer-name*.

System Action: The Functional Subsystem Application (FSA) for the indicated *printer-name* has been terminated.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Item 1.

**APS628I SYSTEM COMPLETION CODE *system
completion code*, PSF ABEND REASON
CODE *reason code*, HAS BEEN
DETECTED BY *estae routine*.**

Explanation: The PSF ESTAE routine detected a PSF abend condition.

System Action: Depending on the error condition, PSF attempts either to recover or to terminate the operator interface. A subsequent PSF message notifies the operator which action was taken.

An ESTAE routine takes an SVC dump unless a dump was provided by an earlier routine.

User Response: No response is necessary.

System Programmer Response: Examine the subsequent PSF messages to determine the appropriate response. To interpret the abend code, see Chapter 2, "System Completion Codes and PSF Abend Reason Codes" on page 285. For most abends, you must consult your IBM Support Center representative. For some abends, however, you can recover by increasing the REGION parameter on the startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 20.

APS629I PSF OPERATOR INTERFACE WAS TERMINATED ABNORMALLY.

Explanation: PSF detected an unrecoverable error while evaluating the abend condition. The ESTAE routine should have provided an SVC dump.

System Action: Abend processing continues.

User Response: No response is necessary.

System Programmer Response: Print the SVC dump provided by the ESTAE routine. To interpret the dump, refer to *PSF for OS/390: Diagnosis*. To interpret the abend code, see Chapter 2, "System Completion Codes and PSF Abend Reason Codes" on page 285.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 20.

APS630I PSF ESTAE CANNOT EVALUATE SYSTEM COMPLETION CODE *system completion code*. ABNORMAL TERMINATION WILL CONTINUE.

Explanation: The PSF ESTAE routine is unable to continue, because PSF did not issue the system completion code.

System Action: Abend processing continues.

User Response: No response is necessary.

System Programmer Response: Print the SVC dump provided by the ESTAE routine. For more information, refer to the MVS system codes publication for your operating system. To interpret the dump, refer to *PSF for OS/390: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 20.

APS631I A STAPLE JAM HAS OCCURRED WHILE ACCUMULATING SHEETS FOR A FINISHING OPERATION. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The staple mechanism on a printer or post processor has jammed or has caused a physical-media jam. The printer detected and reported an asynchronous intervention-required error with an action code of X'0A' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF retransmits pages to the printer starting from the Jam Recovery Printer Counter. Pages may be duplicated during recovery. If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper from the printer and post processor. PSF assumes that pages between the Jam Recovery Printer Counter and the Stacked Printer Counter are not damaged and do not need to be reprinted. If any pages between these two printer counters do need to be reprinted, use the Job Entry Subsystem (JES) BACKSPACE command.

Problem Determination: Items 1, 8, 18.

APS632I DATA IN A FORMDEF RESOURCE IS INCOMPATIBLE WITH THE PRINT REQUEST: THE OUTPUT CONTAINS TOO MANY SHEETS TO PERFORM THE FINISHING OPERATION SPECIFIED IN THE MEDIUM FINISHING CONTROL STRUCTURED FIELD.

Explanation: A finishing operation was requested for a collection of sheets, but the number of sheets was too large for the operation.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF stops printing and processing the data set. The finishing operation is not applied or incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that can perform the finishing operation.
- If errors caused message pages to be added to the output or pages to be skipped, fix those errors so that the correct number of pages is printed.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS633I A PARAMETER VALUE IN A FORMDEF RESOURCE IS INVALID OR UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INVALID OR UNSUPPORTED FINISHING OPERATION TYPE FOR THE SELECTED MEDIA.

Explanation: The operation type field (byte 2) in a finishing operation triplet (X'85') contains an invalid or unsupported value for the selected media.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Verify that the selected media is the type intended for the finishing operation. If the wrong media was selected, either select a different input bin or have the correct media loaded in this input bin.
- Submit the print request to a printer than can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured

field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS634I A PARAMETER VALUE IN A FORMDEF RESOURCE IS INVALID OR UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INVALID OR UNSUPPORTED FINISHING OPERATION REFERENCE CORNER AND EDGE FOR THE MEDIA BEING FINISHED.

Explanation: The reference corner and edge field (byte 5) in a finishing operation triplet (X'85') contains an invalid or unsupported value for the media being finished. This can be caused when a supported media size has different supported reference corners and edges depending on which edge of the media is the leading edge.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Ensure that the media is oriented properly in the input bin for the requested finishing operation.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function*

Presentation: Programming Guide and Line Data Reference for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS635I THE COMMAND(*command*) IS NOT VALID FOR PSF.

Explanation: An invalid command was entered with the MODIFY command. The command is not supported.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter a valid command.

Problem Determination: Item 1.

APS636I INVALID KEYWORD(*keyword*) SPECIFIED FOR COMMAND(*command*).

Explanation: An invalid keyword was entered with the MODIFY command. The keyword is not supported.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command with a valid keyword.

Problem Determination: Item 1.

APS637I PROCESSING OF THE FORCE COMMAND FOR PSF FSA *printer name* HAS BEEN TERMINATED. THE FSA HAS ALREADY BEGUN TERMINATING.

Explanation: The operator has issued an MVS modify FORCE for a PSF printer that is already in the process of terminating.

System Action: The modify FORCE command for the indicated *printer-name* has been discarded by PSF. The termination processing already in progress will complete to attain the results desired by the discarded modify FORCE command.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command with a valid keyword.

Problem Determination: Item 1.

APS638I NO COMMAND SPECIFIED — *command-text*.

Explanation: No command is associated with the data entered. *Command-text* is the data that was entered. The last character of *command-text* was the last position checked before PSF determined that no correct command was present.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter a valid PSF command.

Problem Determination: Items 1, 9, 11.

APS639I COMMAND(*command*) {ACCEPTED | QUEUED}.

Explanation: The PSF command has been accepted, or the command has been queued for later processing. When the command is accepted, the functional processor is called to process the command. When the command is queued, the command is placed on either an FSS-level queue or an FSA-level queue. All queued commands in which the printer-name is specified are queued on the FSA-level queue. Commands issued without the printer-name are queued on the FSS-level queue.

System Action: PSF continues processing the data.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Item 1.

APS641I A MECHANISM EXCEPTION OCCURRED THAT PREVENTS A FINISHING OPERATION FROM BEING APPLIED.

Explanation: The finishing mechanism on a printer or post processor has an intervention-required condition. The printer detected and reported an asynchronous intervention-required error with an action code of X'0A' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF retransmits pages to the printer starting from the Jam Recovery Printer Counter. Pages may be duplicated during recovery. If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper from the printer and post processor. PSF assumes that pages between the Jam Recovery Printer Counter and the Stacked Printer Counter are not damaged and do not need to be reprinted. If any pages between these two printer counters do need to be reprinted, use the Job Entry Subsystem (JES) BACKSPACE command.

Problem Determination: Items 1, 8, 18.

APS642I THE MEDIUM FINISHING CONTROL (MFC) STRUCTURED FIELD IN THE DOCUMENT ENVIRONMENT GROUP SPECIFIES FINISHING OPERATION TRIPLETS THAT ARE INCOMPATIBLE WITH THE FINISHING OPERATION TRIPLETS SPECIFIED ON THE MFC STRUCTURED FIELD IN A MEDIUM MAP.

Explanation: The Medium Finishing Control (MFC) structured field is specified in both the Document Environment Group and in the Medium Map and contain finishing operation triplets that are incompatible. Compatible combinations of finishing operations are specific to a particular presentation device.

The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the MFC contains no triplets or no triplets that might be incompatible, the error may be a printer configuration problem or a printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS643I DATA IN A FORMDEF RESOURCE IS INCOMPATIBLE WITH THE PRINT REQUEST: THE OUTPUT CONTAINS TOO MANY SHEETS TO PERFORM THE FINISHING OPERATION SPECIFIED IN THE MEDIUM FINISHING CONTROL STRUCTURED FIELD.

Explanation: A finishing operation was requested for a collection of sheets, but the number of sheets was too large for the operation.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If errors caused message pages to be added to the output, fix those errors so that the correct number of pages is printed.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS644I MIXED SIZES OF PHYSICAL MEDIA WERE SELECTED TO BE FINISHED BUT THE PRINTER DOES NOT SUPPORT FINISHING ON A GROUP OF SHEETS OF DIFFERENT SIZES.

Explanation: A finishing operation was requested for a collection of sheets of mixed sizes, but the device requires all of the sheets in the collection to be the same size.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF stops printing and processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- If you have selected multiple input bins for a collection of sheets to be finished, make sure the media size in each is the same.
- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS646I THE KEYWORD(*keyword*) IS MUTUALLY EXCLUSIVE WITH ANOTHER KEYWORD SPECIFIED IN COMMAND(*command*).

Explanation: Of the keywords specified in this command, two of them cannot both be specified in the same command.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again, with the correct keywords specified.

Problem Determination: Item 1.

APS647I *keyword* CANNOT BE SPECIFIED WITH *keyword parameter* — *keyword* IGNORED.

Explanation: The command contains (a) a keyword and (b) a particular combination of keyword and parameter. This particular keyword cannot be used in the same command with this combination of keyword and parameter.

System Action: The keyword is ignored, and defaults are used.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: If different keywords are required, enter the command again. For more information about the keywords, refer to *PSF for OS/390: Diagnosis*.

Problem Determination: Item 1.

APS648I **DUPLICATE KEYWORD(*keyword*)
ENTERED FOR COMMAND(*command*).**

Explanation: A keyword was entered more than once for the same command.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command in the correct format.

Problem Determination: Item 1.

APS649I **KEYWORD EXPECTED BUT NOT FOUND
— *command-text*.**

Explanation: A keyword was expected on a command, but *command-text* was found instead. *Command-text* is the data that was entered. The last character of *command-text* was the last position checked before PSF determined that no correct keyword was present.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the correct format of the command.

Problem Determination: Item 1.

APS650I **KEYWORDS ARE NOT ALLOWED WITH
COMMAND(*command*).**

Explanation: A command was specified with keywords. This command does not allow keywords.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again, without the keywords.

Problem Determination: Item 1.

APS651I **KEYWORD REQUIRED FOR
COMMAND(*command*).**

Explanation: A command was entered without keywords. This command requires keywords.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again with the required keywords.

Problem Determination: Item 1.

APS661I **INVALID PARAMETER(*parameter*)
SPECIFIED FOR KEYWORD(*keyword*) IN
COMMAND(*command*).**

Explanation: A parameter specified for a keyword is invalid.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again, with the correct parameter for the keyword.

Problem Determination: Item 1.

APS664I **THE PARAMETER(*parameter*) IS
MUTUALLY EXCLUSIVE WITH ANOTHER
PARAMETER SPECIFIED IN
KEYWORD(*keyword*) IN
COMMAND(*command*).**

Explanation: Two parameters have been specified that cannot be specified in the same keyword.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again, with consistent keywords specified.

Problem Determination: Item 1.

APS667I **DUPLICATE PARAMETER(*parameter*)
ENTERED FOR KEYWORD(*keyword*) IN
COMMAND(*command*).**

Explanation: A parameter was specified more than once in the keyword.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command without a duplicate parameter for the keyword.

Problem Determination: Item 1.

APS668I **A DELIMITER WAS FOUND WHERE A
PARAMETER WAS EXPECTED —
command-text — MODULE(*module name*).**

Explanation: A delimiter was found where a parameter was expected. The last character of the *command-text* data is the invalid delimiter.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again, in the correct format.

Problem Determination: Item 1.

APS669I **NO PARAMETERS SPECIFIED FOR
KEYWORD(*keyword*) IN
COMMAND(*command*).**

Explanation: A keyword cannot be entered without its associated parameters.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again, with the correct keyword parameters.

Problem Determination: Item 1.

APS670I **UNBALANCED PARENTHESES —
command-text.**

Explanation: An ending parenthesis is missing from a command. *Command-text* was the data that was entered. The last character of *command-text* was the last position checked before PSF determined that a correct parameter list was not present.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command and the keyword parameter list in the correct format.

Problem Determination: Item 1.

APS671I **PARAMETER FOUND WHERE PRINTER
NAME EXPECTED — *command-parameter*.**

Explanation: A command was entered without the printer name. The command was entered as *command,parameter*, but it should be entered as *command,prtnnnn,parameters* if a printer name is to be specified. If a printer name is not to be specified, it should be entered as *command,,parameters*.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again, with a printer name or with a comma to occupy the position of the printer name.

Problem Determination: Item 1.

APS683I **PRINTER NAME CANNOT BE SPECIFIED
FOR A PSF COMMAND DURING
INITIALIZATION.**

Explanation: The reply for message APS620A specified the printer name in the command. During initialization the printer name cannot be specified with any command. These commands take effect for the entire FSS; therefore the printer name is invalid.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command without the printer name.

Problem Determination: Item 1.

APS684I PRINTER NAME(*printer-name*) IS INVALID IN COMMAND(*command*).

Explanation: The printer name specified is invalid. The valid format of a printer name is *PRTnnnn*.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the correct format of the printer name.

Problem Determination: None.

APS685I PRINTER NAME CANNOT BE SPECIFIED FOR COMMAND(*command*).

Explanation: A command was specified with a printer name, and the printer name parameter is invalid with this command.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again without a printer name.

Problem Determination: Item 1.

APS686I PRINTER NAME IS REQUIRED FOR COMMAND(*command*).

Explanation: A command was specified without a printer name, and a printer name is required with this command.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again, with a printer name.

Problem Determination: Item 1.

APS687I PRINTER NAME CANNOT BE SPECIFIED FOR COMMAND(*command*) WITH PARAMETER(*parameter*).

Explanation: The printer name was specified for a command, but the parameter specified with this command does not allow the printer name to be specified.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Enter the command again, without a printer name.

Problem Determination: Item 1.

APS691I NOT ENOUGH STORAGE TO PROCESS COMMAND QUEUES — STORAGE REQUESTED = *storage requested*, RETURN CODE = *return code*.

Explanation: Additional storage was required in order to process the command queues, but this storage was not available. The return code is from the GETMAIN macro.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: Increase the REGION parameter on the startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None.

APS692I THE QEDIT REQUEST WAS UNSUCCESSFUL — RETURN CODE(*return code*).

Explanation: An MVS QEDIT request to change the number of requests that could be queued for this FSS was unsuccessful. The return code is the code returned by the QEDIT macro.

System Action: The operator interface is terminated with a dump.

User Response: No response is necessary.

System Programmer Response: For more information about the return codes from the QEDIT macro, see Appendix A, Problem Determination; also refer to *MVS/ESA SPL: Application Development Macro Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 9, 11.

AP693I THE MVS STOP COMMAND IS NOT VALID FOR THE PSF OPERATOR INTERFACE.

Explanation: An MVS STOP command was entered for the PSF operator interface. The PSF operator interface processes only the MVS MODIFY command.

System Action: The command is ignored, and processing continues with the next command entered.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Use the MVS MODIFY command to enter PSF commands.

Problem Determination: Item 1.

AP694I *system function* **UNSUCCESSFUL FOR MODULE** *module name*, **RETURN CODE** *return code* — **MODULE**(*issuing module*).

Explanation: A system function was used to perform some task for the operator interface. The function returned a nonzero return code.

System Action: Processing ends with an abend or error message. A subsequent PSF message notifies the operator of the action taken.

User Response: No response is necessary.

System Programmer Response: For information about the return code, refer to *MVS/ESA System Programming Library: Application Development Macro Reference*. If a dump was provided, see Chapter 2, System Completion Codes and PSF Abend Reason Codes.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 20.

AP695I FREEMAIN UNSUCCESSFUL FOR SUBPOOL *subpool*, **RETURN CODE** *return code* — **MODULE**(*issuing module*).

Explanation: The FREEMAIN was unsuccessful. It returned a nonzero return code.

System Action: Processing ends with an abend or an error message. A subsequent PSF message notifies the operator of the action taken.

User Response: No response is necessary.

System Programmer Response: For information about the return code, refer to *MVS/ESA System Programming Library: Application Development Macro Reference*. If a dump was provided, see Chapter 2, System Completion Codes and PSF Abend Reason Codes, or refer to *MVS/ESA System Programming*

Library: Application Development Macro Reference for information about the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 20.

AP700I THE ERROR SENSE BYTES 0–5 = error sense bytes 0–5, XP POSITION = xp position, YP POSITION = yp position, BUFFER OFFSET = printer buffer offset, PRINTER STATE = printer state, COMMAND= channel command, ERROR ID TYPE = error identification type, ERROR ID = error identification, COPY GROUP = code page, SENSE BYTES 18–23 = error sense bytes 18–23.

Explanation: This message formats and presents the 24 printer-sense bytes that were reported to PSF by a 3800 printer for a non-position check I/O error. A primary message describing the specific I/O error accompanies this message. The primary message should be sufficient for diagnosing and resolving a user error. This detailed sense byte message is intended for use by the system programmer or the IBM Support Center in diagnosing hardware or PSF logic errors.

- *Error sense bytes 0–5* are the first 6 bytes in the sense data, reported in hexadecimal. These bytes are used to identify the specific I/O error:

- Byte 0 – Error group
- Byte 1 – Check code or status code
- Byte 2 – Recovery Action code for this error condition
- Byte 3 – Dynamic conditions
- Byte 4 – X'00', or same as sense byte 1 or X'DE'
- Byte 5 – Depends on format of sense being issued

- *Xp position* is the print position on the X-axis at the time of the error, stated in pels. This information was obtained from bytes 6 and 7 of the sense data.

- *Yp position* is the print position on the Y-axis at the time of the error, stated in pels. This information was obtained from bytes 8 and 9 of the sense data.

- *Printer buffer offset* is the approximate number (in decimal) of the byte, in the data sent by the current channel command, that the printer was processing when it detected the error. This information was transformed from bytes 10 and 11 of the sense data.

- *Printer state* is the state of the printer at the time the error was detected. This information was formatted from byte 12 of the sense data.

- X'00' – Home state
- X'01' – Font index

- X'02' – Font state
 - X'03' – Page state
 - X'04' – Page image state
 - X'05' – Reserved
 - X'06' – Reserved
 - X'07' – Overlay state
 - X'08' – Overlay image state
 - X'09' – Reserved
 - X'0A' – Reserved
 - X'0B' – Segment state
 - X'0C' – Segment image state
 - X'0D' – Reserved
 - X'0E' – Reserved
 - X'0F' – Compatibility mode
- *Channel command* is the channel command that was being processed at the time when the error was detected. This information was formatted from byte 13 of the sense data. If the reference manual for the 3800 printer is not available, these channel commands are also listed in *IBM System/370 Extended Architecture Reference Summary (GX20-0157)* or in *IBM Enterprise Systems Architecture/390 Reference Summary (SA22-7209)*.
 - *Error identification type* identifies the type of ID entry that is displayed in bytes 15 and 16 (the error identification). This information was formatted from byte 14 of the sense data. The values are as follows:
 - X'80' – Font-related error (bytes 15 and 16 contain font ID)
 - X'40' – Segment-related error (bytes 15 and 16 contain segment ID)
 - X'20' – Overlay-related error (bytes 15 and 16 contain overlay ID)
 - X'10' – Suppression-related error (bytes 15 and 16 contain a suppression ID)
 - *Error identification* is the font ID, segment ID, overlay ID, or suppression ID, as identified by the contents of the *error identification type* value. This information was formatted from bytes 15 and 16 of the sense data.
 - *Copy subgroup* is the number of the active copy group, in decimal. To determine which copy subgroup was being printed at the time of the error, find the active form definition and medium map named in the accompanying environmental messages. In the medium map is a Medium Modification Control (MMC), which specifies the medium modifications to be applied for the copy subgroup specified in the Medium Copy Count (MCC) structured field. If all the copy subgroups specify simplex printing, the value returned in these sense bytes refers to the *n*th copy subgroup listed in the MCC. Any copy subgroup that specifies duplex counts as two. This information was transformed from byte 17 of the sense data.
 - *Error sense bytes 18-23*, in hexadecimal:

- Byte 18: Last font number set from the font equivalence table.
- Byte 19: Check group code ID used with bytes 0 and 1 to identify the error.
- Bytes 20-23: Page ID sent with the Begin Page command.

Note: If the printer is not in Page or Page Image state, the page ID will be zero.

System Action: See the accompanying messages for the system action that was taken.

User Response: If the accompanying messages are not sufficient to identify the problem, contact your system programmer.

System Programmer Response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17, 27.

APS7011 WHEN THE ERROR(S) REPORTED ABOVE OCCURRED, THE ACTIVE
{FORMDEF MEMBER NAME = formdef member name| MODIFIED-DEFAULT FORMDEF MEMBER NAME = formdef member name FORMDEF TOKEN NAME = formdef token name | FORMDEF DATA SET NAME = formdef data set name | PAGEDEF MEMBER NAME = pagedef member name | MODIFIED-DEFAULT PAGEDEF MEMBER NAME = pagedef member name PAGEDEF TOKEN NAME = pagedef token name | PAGEDEF DATA SET NAME = pagedef data set name | FORM ENVIRONMENT GROUP NAME = form environment group name | ACTIVE ENVIRONMENT GROUP NAME = active environment group name | MEDIUM MAP TOKEN NAME = medium map token name | DATAMAP TOKEN NAME = datamap token name | DATAMAP TRANSMISSION SUBCASE TOKEN NAME = datamap transmission subcase token name | CODE PAGE NAME = code page name | FONT CHARACTER SET NAME = font character set name | TRANSMISSION NUMBER IN ERROR WAS = transmission number | PAGE NUMBER IN ERROR WAS = page number.}

Explanation: The page information and object names that were active at the time of the error are presented in this message. A subset of the above pages and names is associated with each error.

System Action: Printing of the page or data set containing the error ends. Processing continues.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17, 27.

APS702I THE PRINT POSITION EXTENDS OFF THE LOGICAL PAGE.

Explanation: The print position exceeded the boundaries of the logical page to the right, bottom, left, or top. The direction in which the print position was off the page is relative not to the logical page, but to the paper as it moves through the printer. For example, the top of the sheet is the perforated edge that leads through the printer.

This error was reported because DATAACK=UNBLOCK or BLKCHAR was specified in the OUTPUT JCL statement or the PRINTDEV JCL statement in the PSF initialization procedure. Print-error markers are printed on the page containing the error to indicate the position and the direction in which this position error occurred.

The error was caused by one or more of the following:

- More characters were transmitted than can fit on a line in the logical page.
- More lines were transmitted than can fit on the logical page.
- The font selected from the form definition or defined either in the page definition or in the table reference character (TRC) caused the data to exceed the logical page.
- A positioning text-control sequence (Absolute Move Inline [AMI], Absolute Move Baseline [AMB], Relative Move Inline [RMI], or Relative Move Baseline [RMB]) positioned the print position outside of the physical page. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

The message containing the sense data that accompanies this message identifies the Xp and Yp position at the time of the error.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. The page in error is printed with print-error markers to indicate the position and direction

of the positioning errors. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If your printed output would be acceptable, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATAACK keyword on the JCL OUTPUT statement. For more information on how to code this keyword, refer to *PSF for OS/390: User's Guide*.

If you want to correct the source of the problem, and if you were printing MO:DCA data, check the current print position and either the characters per line, the lines per page, or both. Use a different font, if necessary, so that the print position is inside the printable area. Correct the size of the logical page so that it contains the print position. If you created the structured fields for the MO:DCA data, check the PTX structured field for positioning outside of the page.

If you want to correct the source of the problem, and if you were printing a data set containing line data, you could change the font selected from the page definition or the CHARS keyword in the JCL statements to a smaller font. If you were using a page definition and you created its structured fields, check the print-positioning values in the Line Descriptor (LND) structured field, and correlate them with the number of printable characters per line and the number of lines per page. You could also increase the logical page size by changing the Page Descriptor (PGD) structured field in the page definition.

If you want to correct the source of the problem, and if you were printing a data set containing line data with imbedded structured fields, check the PTX structured field for positioning outside of the page.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS703I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A CFI OR MCF STRUCTURED FIELD CONTAINS FONT SECTION IDENTIFIERS THAT ARE NOT IN ASCENDING ORDER.

Explanation: The coded font section identifiers in the Coded Font Index (CFI) structured field are not in ascending order. The CFI structured field is in the coded font.

System Action: The printer you were using may attempt to print the page that contains the error, or may print only part of the page. If the page contains any positioning errors, print-error markers may be included on the printed page. PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference and Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured fields. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference and PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS704I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE COLOR VALUE SPECIFIED IS INVALID OR UNSUPPORTED.

Explanation: The image color value specified is invalid or unsupported by this printer. The image color value is specified on any of the following structured fields:

- The IM Image Input Descriptor (IID).
- The Image Data Descriptor (IDD) for IOCA images.

The image or image cell might be contained in an overlay, a page segment, or MO:DCA data. It might also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported

another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If the structured fields are invalid and you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

If the color value is unsupported by this printer, resubmit the print request to a printer that does support this color value.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS705I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE X- OR Y-COORDINATE FOR A PAGE OVERLAY IS INVALID OR IS UNSUPPORTED.

Explanation: The X-coordinate or Y-coordinate for a page overlay is invalid or is unsupported. If the overlay containing the error is a secure overlay, this condition was caused by a PSF logic error. If the overlay containing the error is not a secure overlay, the coordinates are specified in the Include Page Overlay (IPO) structured field. The IPO structured field may be in the MO:DCA data or a page definition, or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If the error involves a secure overlay, notify your system programmer of this error. If you created the structured fields for the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the print data set, contact your system programmer.

System Programmer Response: If the error involves a secure overlay, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center. If the error does not involve a secure overlay, if an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS706I A PARAMETER VALUE IN A FORMDEF RESOURCE IS INVALID OR UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INVALID OR UNSUPPORTED FINISHING OPERATION REFERENCE CORNER AND EDGE FOR THIS FINISHER.

Explanation: The reference corner and edge field (byte 5) in a finishing operation triplet (X'85') contains an invalid or unsupported value for this finisher.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content*

Architecture Reference and Advanced Function Presentation: Programming Guide and Line Data Reference for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS707I A HARDWARE ERROR WAS DETECTED WHILE DATA WAS BEING TRANSFERRED TO THE PRINTER.

Explanation: While a data set was being processed, the printer presented a command reject I/O error indicating that the data transmission came to an abnormal end during a fast-buffer-release operation. For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: The data set being processed at the time of the error is marked unprintable and terminated. PSF will release the current data set back to JES and will request that it be held by the system unless PRERROR=QUIT was specified on the OUTPUT statement.

User Response: If the data set was held by the system, consult the system operator to release the data set for printing. If the data set was terminated but not held by the system, resubmit the data set for printing. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: If the data set was held by the system, a JES message displays on the console. For a JES command to release the data set for printing, refer to the publication containing JES commands for your operating system.

Problem Determination: Items 1, 8, 18.

APS708I A CHARACTER IN THE PRINT DATA IS DESCRIBED AS INVALID IN THE CODE PAGE ASSOCIATED WITH THE FONT.

Explanation: An undefined character has been detected:

- In a bar code data (BDA) command
- In the font specified for text, bar code HRI, or graphics character-string data
- In Presentation Text (PTX) command data at the quality level specified

The Flag Byte parameter in either the Code Page Control (CPC) or a repeating group of the Code Page Index (CPI) structured field had the undefined or unprintable bit set for a code point in the text data that was to be printed. The CPC and CPI structured fields are in the code page. This error occurred because DATAACK=UNBLOCK or BLKPOS was specified in the OUTPUT JCL statement or the PRINTDEV JCL statement in the PSF initialization procedure. One of the following conditions occurred:

- The code page did not include the code point, and the default character, specified by the CPC, had the invalid flag on.
- The character assigned to this code point did not exist in the character set, and the default character, specified by the CPC, had the invalid flag on.
- The code point, specified by the CPI structured field, had the invalid flag on.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: To eliminate this error message from your output, you can resubmit the print request specifying BLOCK or BLKCHAR for the DATAACK keyword on the JCL OUTPUT statement. For more information on how to code this keyword, refer to *PSF for OS/390: User's Guide*.

If you want to correct the source of the problem, you will first need to identify which character in which font contains the error. If the printer returned the information about the invalid character, check the following:

- Immediately following this message (APS708I) is a formatted sense message (APS830I). The *element identifier* field in this message will contain the code point in which the error occurs, or zeroes if the printer did not return the information.
- To determine which code page and character set pair have this invalid code point, check the APS7011

messages. These are the environmental messages for this page. If the printer returned the information, one of the APS7011 messages will provide the *active code page name* and the *active character set name*.

Ensure that the code point in the print data is correct. If the code point is incorrect and you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information on the correct format of the referenced structured field. If you used a program to create the structured fields for the code page, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS709I DATA IN A FONT RESOURCE IS INVALID: THE FONT PATTERN DATA COUNT PARAMETER VALUE IN THE FNC STRUCTURED FIELD IS INVALID.

Explanation: The Pattern Data Count parameter value in the Font Control (FNC) structured field is invalid. The FNC structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for*

OS/390: Customization for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS710I DATA IN A FONT RESOURCE IS INVALID: THE DOUBLE-BYTE FONT CONTROL DATA WAS NOT THE SAME BETWEEN DOUBLE-BYTE FONT SECTIONS.

Explanation: The printer detected this error while processing the font sections of a specified double-byte font. Except for two parameters, font sections are required to have identical data. The control data was not the same for one or more of the sections specified for the font. The font-control parameters must have unique data, except for the following:

- Pattern Data Count in the Font Control (FNC) structured field
- Flag Byte in the Font Orientation (FNO) structured field

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS711I A PAPER JAM OR A POST PROCESSOR RESYNCHRONIZATION OCCURRED ON THE PRINTER DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The paper in the printer was jammed, or a post processor was resynchronized. The printer detected and reported an asynchronous intervention-required error with an action code of X'08' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported the error.

System Action: PSF retransmits pages to the printer, starting from the Jam Recovery Printer Counter plus 1. PSF may print this message on a separate sheet in the data set to mark the position at which the recovery from this error was started. Pages may be duplicated during the recovery. If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 18.

APS712I A PRINTER PROCESS POWER ERROR OCCURRED DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: An error occurred with the process power of the printer. The printer detected and reported an asynchronous equipment check with an action code of X'0B' (sense-byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF retransmits pages to the printer, starting from the Jam Recovery Printer Counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. Pages may be duplicated during the recovery. If repositioning is not supported in the current environment then the data set is terminated. PSF also prints this message at the end of the print data set, to indicate that this message was printed within the print data set.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 18.

APS713I A PRINTER UNIT CHECK AFTER AN INITIAL MICROCODE LOAD OCCURRED DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The printer presented a unit check to PSF with an action code of X'0D' (sense-byte 2) to indicate that an automatic or manual initial microcode load (IML) operation has been successfully completed. For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: Pages in the printer's page buffer and all resources in the printer are lost. The printer resets its printer counters to zero. PSF retransmits pages to the printer, starting from the Committed Page Printer Counter. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set. Pages may be duplicated during the recovery. If repositioning is not supported in the current environment then the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 18.

APS714I AN ERROR OCCURRED WHILE PROCESSING AN ELECTRONIC OVERLAY OR A BASE PAGE IN THE PRINTER ACCUMULATOR.

Explanation: The printer detected and reported a data check with an action code of X'10' (sense byte 2). This message indicates one of the following:

- The page or paper size is not compatible with accumulator data store earlier.

- The base page was moved to accumulator storage and needs to be reloaded.
- The raster overlay in the accumulator storage needs to be reloaded.

System Action: PSF causes the printer to discard the printer's buffered data and to delete all overlays, page segments, and fonts. On the first occurrence of this error, the message is printed on a separate sheet in the data set to mark the position before recovery starts. PSF recovers by retransmitting pages to the printer, starting from the last known Committed Page Printer Counter plus 1. On the second occurrence of this error, the message is printed at the end of the message data set, and the data set is terminated at the Committed Page Printer Counter plus 1.

User Response: If the output is unacceptable, resubmit the print request. The overlay or page segment may need to be modified. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 18.

APS715I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A TEXT SUPPRESSION DID NOT END BEFORE THE PAGE ENDED.

Explanation: The printer detected a Begin Suppression (BSU) text control while it was processing the page. The corresponding End Suppression (ESU) text control was not received before the page was completed. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the

PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

**APS716I FONT CONTAINS INVALID DATA:
CHARACTER BOX SIZE X-EXTENT OR
Y-EXTENT PARAMETER INVALID.**

Explanation: The printer detected an invalid value for the character-box size specified either in the Character Box X-Extent or in the Character Box Y-Extent parameter in the Font Control (FNC) structured field of the font being processed. The FNC structured field is in the font character set.

System Action: PSF stops processing and printing the data set that uses the font containing the error.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator

pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

**APS717I THE ERROR SENSE BYTES 0-23 = error
sense bytes 0-23.**

Explanation: This message presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error.

System Action: See the accompanying messages for the system action that was taken.

User Response: If the accompanying messages are not sufficient to identify the problem, contact your system programmer.

System Programmer Response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error. If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 8, 18.

**APS718I DATA IN A FONT RESOURCE IS
INVALID: THE UNIFORM CHARACTER
BOX SIZE X-EXTENT AND Y-EXTENT
PARAMETER VALUES ARE NOT EQUAL
IN THE FNC STRUCTURED FIELD.**

Explanation: The printer detected that the width and length values for the character-box size for a font specified to be non-uniform were not equal (for example, the font has variable character-box sizes). The character box X-Extent and the character box Y-Extent, specified in the Font Control (FNC) structured field, must be equal for non-uniform fonts. The Uniform Character Box Size parameter in the FNC structured field indicates whether the character box size of a font is uniform or non-uniform. The FNC structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture*

Reference and Mixed Object Document Content Architecture Reference for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS719I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE INPUT DATA SELECTED A DOUBLE-BYTE FONT SECTION IDENTIFIER THAT IS NOT WITHIN THE RANGE OF THE FONT SPECIFIED TO PRINT THE DATA.

Explanation: While processing double-byte data, the printer detected a font section identifier that could not be used. Either the coded font specified to print the data did not contain a section with that identifier, or the section identifier was not in the valid range. The font section identifier is the first byte of the two-byte character code in a double-byte data stream.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Verify that the appropriate font was selected and that the section identifier coded in the print data for the character is valid. Valid ranges for font section identifiers are described in *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the font section identifier is valid, ensure that a font section with that identifier is included in the double-byte coded font you want to use.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS720I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SET VARIABLE SPACE INCREMENT TEXT CONTROL IS OUTSIDE THE VALID RANGE.

Explanation: The Set Variable Space Increment (SVI) text-control sequence is outside the valid range. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS721A A PRINTER PROCESS POWER ERROR OCCURRED ON PRINTER DEVICE = prtntnnn. SENSE BYTES 0-23 = error sense bytes 0-23. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The printer detected and reported an equipment check error with an action code of X'0B' (sense-byte 2). The printer identified by the address reported in this message requires the operator to restore power to the printer process. For more information about this error, or to interpret the printer sense bytes, refer to the printer publications for the printer that reported this error.

System Action: After the printer has been readied, PSF retransmits pages to the printer, starting from the Jam Recovery Printer Counter plus 1. PSF prints a message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints the same message at the end of the data set to indicate that the message was printed within the data set. Pages may be duplicated during the recovery. If repositioning is not supported in the current environment then the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Restore power to the printer and press RESET or READY.

Problem Determination: Items 1, 8, 18.

APS722I A PRINTER SUBSYSTEM RUN RESET WITH A POSSIBLE PAPER JAM OCCURRED DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The printer detected and reported an asynchronous intervention-required error with an action code of X'08' (sense-byte 2). An unexpected RESET command was received and may have caused the printer's paper path to jam. For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF retransmits pages to the printer, starting from the Jam Recovery Printer Counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. Pages may be duplicated during the recovery. If repositioning is not supported in the current environment then the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error, and clear the paper jam in the printer. PSF assumes that pages between the Jam Recovery Printer Counter and the Stacked Printer Counter are not damaged by the paper jam and do not need to be reprinted. If any pages between these two printer counters need to be reprinted, use the Job Entry Subsystem (JES) BACKSPACE command.

Problem Determination: Items 1, 8, 18.

APS723I DATA IN A FONT RESOURCE IS INVALID: THE UNIFORM CHARACTER INCREMENT PARAMETER IN THE FNO STRUCTURED FIELD IS INVALID.

Explanation: The Uniform Character Increment parameter in the Font Orientation (FNO) structured field is invalid. The FNO structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS724I {RPS | WCS | CPS | FONT } PRINTER STORAGE LIMIT WAS EXCEEDED WHILE LOADING OBJECTS FOR THE PAGE. THE PAGE RETRY ATTEMPT MAY CAUSE A PARTIAL OR BLANK PAGE TO APPEAR IN THE OUTPUT.

Explanation: The printer detected and reported an out-of-storage print error with an action code of X'0C' (sense-byte 2). The requirement for raster-pattern storage (RPS), writable-control storage (WCS), compressed-pattern storage (CPS), or font storage (FONT) exceeded the available storage resources of the printer.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: PSF recovers from this out-of-storage print error by deleting all resources (for example, overlays, page segments, and fonts) that are not required for the current page being sent to the printer. PSF then retransmits pages to the printer, starting from the Received Page ID. If the error condition persists, PSF issues message APS725I, skips the page containing the error, and continues processing the current data set with the page after the page containing the error. If repositioning is not supported in the current environment, the data set is terminated.

User Response: If the printed output is not acceptable, make the page less complicated by deleting resources (for example, overlays, page segments, and fonts) or print the data set on a printer with more of the type of storage that was exceeded. For more information on how to simplify the print job, refer to *Advanced Function Presentation: Printer Information*.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS725I {RPS | WCS | CPS | FONT} PRINTER STORAGE LIMIT WAS EXCEEDED WHILE LOADING OBJECTS DURING A PAGE RETRY. THE PAGE IS SKIPPED AND PROCESSING CONTINUES ON THE NEXT PAGE.

Explanation: The printer detected and reported an out-of-storage error with an action code of X'0C' (sense-byte 2). The requirement for raster-pattern storage (RPS), writable-control storage (WCS), compressed-pattern storage (CPS), or font storage (FONT) exceeded the available storage resources of the printer. PSF detected that this was the second resource-constrained error for the page containing the error. (See message APS724I.) This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: PSF recovers from this out-of-storage printer error by skipping the page containing the error, because this is the second attempt to send it to the printer. PSF continues processing the current data set with the page after the page containing the error. If repositioning is not supported in the current environment, the data set is terminated.

User Response: If the data stream errors stopped processing of the page just before the page for which APS725I was issued, correct the data stream errors first and resubmit the print request. The condition that caused message APS725I to be issued may be resolved after the other errors have been corrected. If the above situation does not apply, make the page less complicated by deleting resources (for example overlays, page segments, and fonts), or print the data set on a printer with more of the type of storage that was exceeded.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS726I DATA IN A FONT RESOURCE IS INVALID: THE ORIENTATION PARAMETER IN THE FNO STRUCTURED FIELD IS INVALID.

Explanation: The Orientation parameter in the Font Orientation (FNO) structured field is invalid. The FNO structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS727I DATA IN A FONT RESOURCE IS INVALID: THE UNIFORM BASELINE OFFSET PARAMETER IN THE FNO STRUCTURED FIELD IS INVALID.

Explanation: The Uniform Baseline Offset parameter in the Font Orientation (FNO) structured field is invalid. The FNO structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator

pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS728I DATA IN A FONT RESOURCE IS INVALID: THE FLAG BYTE PARAMETER IN THE FNO STRUCTURED FIELD IS INVALID.

Explanation: The Font Index Number, bits 0–2 of the Flag Byte parameter, in the Font Orientation (FNO) structured field is invalid. The FNO structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS729I DATA IN A FONT RESOURCE IS INVALID: A PATTERN DATA ADDRESS IN AN FNM STRUCTURED FIELD IS INVALID.

Explanation: Repeating group entries in the Font Pattern Map (FNM) structured field must be in ascending order by the Pattern Data Address. The Pattern Data Address parameter must not point within

the raster pattern data of a previous pattern or past the end of a character pattern data. The FNM structured field is in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS730I THE SUM OF THE OUTPUT AND/OR PRINTDEV STATEMENT MEDIUM OVERLAYS AND MEDIUM MAP OVERLAYS FOR A PHYSICAL PAGE EXCEEDS WHAT THE PRINTER CAN SUPPORT.

Explanation: When the number of overlays specified in the Medium Modification Control (MMC) structured field and the number of medium overlays specified on the OUTPUT and/or PRINTDEV statement are added, the total exceeds what this printer can support on a physical page (one side of a sheet). The MMC structured field is contained in the form definition.

The limit for the total number of overlays depends on the printer you use.

System Action: The data set that was being processed at the time of the error is marked unprintable and is terminated. PSF will release the current data set back to JES and will request that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Change the output class for the next submission. Consult the system operator to have the

print request released to a printer that can print the total number of overlays on that page. If you do not have access to a printer that can support that number of overlays on a page, the number of overlays will need to be decreased. If you created the form definition that contains the MMC structured field, you will have to remove one or more of the overlays, depending on how many OUTPUT/PRINTDEV statement medium overlays were specified. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. Resubmit the print request. If the total number of user overlays and OUTPUT/PRINTDEV statement medium overlays is less than or equal to what this printer should support, the error might be a PSF logic error.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data set release commands to release the data set to a printer that can handle a larger number of medium overlays. To find the JES command to release the data set for printing, refer to the publication containing JES commands for your operating system.

Problem Determination: Items 2, 17, 28.

APS731I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN EMBEDDED TEXT CONTROL IS INVALID.

Explanation: An invalid text control code was found. The text control came from a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The Presentation Text Data (PTX) structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the

structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS732I DATA IN A FONT RESOURCE IS INVALID: NONMATCHING DOUBLE-BYTE FONT SECTIONS.

Explanation: The structured fields making up sections X'45' through X'FE' of a double-byte font do not contain matching values. Parameters that do not have to be identical are the section ID, from the Map Coded Font (MCF) or the Coded Font Index (CFI) structured field; the Font Byte Count, from the Font Control (FNC) structured field; the Character Data Alignment, from the FNC structured field; and the Character Pattern Descriptors, from the Font Patterns Map (FNM) structured field. Some parameters have to match for the same character rotation of all sections in a double-byte font. For more information, refer to the printer publications describing the sense data received in the accompanying PSF message.

The CFI structured field is in the coded font. The FNC, FNM, and FND structured fields are in the font character set. The CPC structured field is in the code page. The MCF structured field is contained in a MO:DCA document, an overlay, or a page definition.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the

structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS733I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE X COORDINATE FOR THE IMAGE BLOCK ORIGIN IS OUT OF RANGE IN AN IOC STRUCTURED FIELD.

Explanation: The X-coordinate value specified in the Image Block Origin parameter of an Image Output Control (IOC) structured field is outside of the valid range. The value is specified in absolute I-units. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was

valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS734I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE Y COORDINATE FOR THE IMAGE BLOCK ORIGIN IS OUT OF RANGE IN AN IOC STRUCTURED FIELD.

Explanation: The Y-coordinate value specified in the Image Block Origin parameter of an Image Output Control (IOC) structured field is outside of the valid range. The value is specified in absolute B-units. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS735I SELECTED PHYSICAL MEDIA TO BE FINISHED CANNOT BE SENT TO THE SELECTED MEDIA DESTINATION.

Explanation: The physical media cannot be sent to the selected media destination. The printer cannot continue processing the data set.

System Action: PSF stops processing and printing the data set.

User Response: Follow these steps:

- Ensure that the input media source is valid and that it contains the appropriate media for the finishing operation being performed. The input media source can be selected in the form definition, or PSF will use the default media source for the printer.
- Ensure that the output media destination is valid for the finishing operation being performed. The media destination can be selected on the JCL OUTPUT statement with the OUTBIN keyword, or PSF will use the default media destination.
- Verify that you have requested the appropriate form definition for the finishing operation intended.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS736I PARAMETERS IN A FORMDEF RESOURCE ARE INCOMPATIBLE: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES INCOMPATIBLE FINISHING OPERATION TRIPLETS.

Explanation: The Medium Finishing Control (MFC) structured field contains finishing operation triplets that are incompatible. Compatible combinations of finishing operations are specific to a particular presentation device.

The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS737I DATA IN A FORMDEF RESOURCE IS INVALID: THE X COORDINATE SPECIFIED IN THE PAGE ORIGIN PARAMETER IN A PGP STRUCTURED FIELD IS OUT OF RANGE.

Explanation: The X-coordinate value in the Page Origin parameter in the Page Position (PGP) structured field is outside of the valid range. The PGP structured field is in the form definition.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information

provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS738I DATA IN A FORMDEF RESOURCE IS INVALID: THE Y COORDINATE SPECIFIED IN THE PAGE ORIGIN PARAMETER IN A PGP STRUCTURED FIELD IS OUT OF RANGE.

Explanation: The Y-coordinate value in the Page Origin parameter in the Page Position (PGP) structured field is outside of the valid range. The PGP structured field is in the form definition.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS739I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: ADDITIONAL DATA IS NEEDED TO COMPLETE EITHER AN EMBEDDED TEXT CONTROL CHAINED SEQUENCE OR A DOUBLE-BYTE FONT CHARACTER CODE.

Explanation: One of the following conditions caused this error:

- Chained text-control sequences that did not end correctly were encountered.
- The text-control sequences came from a Presentation Text Data (PTX) structured field or were generated by PSF from a page definition.
- A double-byte font character code is missing.
- Data in a Write Image 2 or Write Graphics command did not end correctly. This results when a command other than a WI2 (WG) or Execute Order Anystate command is encountered between a Begin Segment/End Segment pair.
- If the IM1 image resolution in the IID structured field does not match the printer resolution, PSF attempts to convert the IM1 image to Image Object Content Architecture (IOCA) (if the printer supports IOCA). During this conversion process, IM1 structured fields are converted to IOCA Intelligent Printer Data Stream (IPDS) commands. This error will occur in either of the following conditions:
 - If a Set Home State command occurs before the entire image data is sent to the printer.
 - If an error is detected in the process of outputting image data that causes PSF to terminate the page.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the appropriate structured field. For more information, refer to *Mixed Object Document Content Architecture Reference*. If you used a program to create the structured fields for the MO:DCA print data set, overlay, or page segment, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the appropriate structured field. If the structured field has no errors, consult your system programmer.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error. Consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the

print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS740I DATA IN A FONT RESOURCE IS INVALID: THE MAXIMUM BASELINE EXTENT PARAMETER IN THE FNO STRUCTURED FIELD IS INVALID.

Explanation: The Maximum Baseline Extent parameter in the Font Orientation (FNO) structured field parameter is invalid. The FNO structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS741I THE UPA DIMENSIONS SPECIFIED EXCEEDED THE MAXIMUM ALLOWED.

Explanation: The sum of the Xm (or Ym) coordinate of the User Printable Area (UPA) origin and the Xm extent of the User Printable Area specified in the security definitions library member exceeds the maximum value that can be represented in the printer. The UPA dimensions are specified in the security definitions library.

System Action: PSF terminates the processing and printing of the data set.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Decrease the size of the UPA dimensions in the security definitions library member. Refer to *PSF: Security Guide* for information about the format of the security definitions library.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot print a separator page or print error messages. Inform your system programmer that this error occurred.

Problem Determination: Items 1, 2, 17, 27.

APS742I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE HORIZONTAL PRINT LIMIT FOR THE LOGICAL PAGE IS INVALID IN THE PGD STRUCTURED FIELD.

Explanation: The Horizontal Page Size parameter in the Page Descriptor (PGD) structured field is invalid. The PGD structured field is in MO:DCA data, an overlay, or a page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data or an overlay and you created the structured fields in the object containing the error, change the page size in the print data set or an overlay. If you were printing MO:DCA data or an overlay and you used a program to create the structured fields in the object containing the error, change your input to that program to change the paper size. If you were printing a data set containing line data, change the page size in the page definition.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that

the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS743I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE VERTICAL PRINT LIMIT FOR THE LOGICAL PAGE IS INVALID IN THE PGD STRUCTURED FIELD.

Explanation: The Vertical Page Size parameter in the Page Descriptor (PGD) structured field is invalid. The PGD structured field is in the MO:DCA data, an overlay, or a page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data or an overlay and you created the structured fields in the object containing the error, change the page size in the print data set or overlay. If you were printing MO:DCA data or an overlay and you used a program to create the structured fields in the object containing the error, change your input to that program to change the page size. If you were printing a data set containing line data, change the page size in the page definition.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS746I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE WIDTH PARAMETER OF A DRAW INLINE RULE OR DRAW BASELINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD I INVALID.

Explanation: The Width parameter in the Draw Inline Rule (DIR) or Draw Baseline Rule (DBR) text-control sequence either is greater than the maximum width or is less than the minimum width. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS747I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE WIDTH PARAMETER OF A DRAW INLINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD IS LESS THAN THE MINIMUM WIDTH.

Explanation: The Width parameter in the Draw Inline Rule (DIR) text-control sequence is less than the minimum width. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS748I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE LENGTH PARAMETER OF A DRAW INLINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD IS OUTSIDE THE VALID RANGE.

Explanation: The Length parameter in the Draw Inline Rule (DIR) text control is outside the valid range. The text-control sequence is in a Presentation Text Data (PTX) structured field. The PTX structured field may be in the MO:DCA data, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS749I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE WIDTH PARAMETER OF A DRAW BASELINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD EXCEEDS THE MAXIMUM WIDTH.

Explanation: The Width parameter in the Draw Baseline Rule (DBR) text control exceeds the maximum width. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS750I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE WIDTH PARAMETER OF A DRAW BASELINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD IS LESS THAN THE MINIMUM WIDTH.

Explanation: The Width parameter in the Draw Baseline Rule (DBR) text control is less than the minimum width. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS751I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE LENGTH PARAMETER OF A DRAW BASELINE RULE TEXT CONTROL IN A PTX structured field IS OUTSIDE THE VALID RANGE.

Explanation: The Length parameter in the Draw Baseline Rule (DBR) text control is outside the acceptable range. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS753I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN ATTEMPT WAS MADE TO PRINT WITH A FONT THAT DID NOT MATCH THE CURRENT TEXT ORIENTATION.

Explanation: The Set Coded Font Local (SCFL) text-control sequence was not specified after the text orientation was changed. When the text orientation changes, the SCFL text-control sequence should be specified after the Set Text Orientation (STO) text control sequence, unless the current font is usable in the new orientation. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTX structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were using a page definition to print a data set containing line data, and you created the structured fields for the page definition, specify a valid value for the text orientation parameter in the Line Descriptor (LND) structured field, or specify a font that can be printed in the original text orientation. If you used a program to create the structured fields for the page definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS754I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BEGIN AND END SUPPRESSION IDENTIFIERS IN A BEGIN/END SUPPRESSION TEXT CONTROL DID NOT MATCH.

Explanation: An End Suppression (ESU) text-control sequence that identifies the end of a passage of suppressible text must include the print-suppression number used in the Begin Suppression (BSU) text control. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error

involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS755I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: NESTING OF SUPPRESSION TEXT CONTROLS IS NOT ALLOWED.

Explanation: A Begin Suppression (BSU) text control was received before the preceding Begin Suppression (BSU) text control was ended by an accompanying End Suppression (ESU) text control. The printer you were using when the error occurred does not allow this. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that

the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS756I DATA IN AN OVERLAY RESOURCE IS INVALID: BEGIN/END SUPPRESSION TEXT CONTROLS ARE NOT ALLOWED INSIDE AN OVERLAY.

Explanation: A Begin Suppression (BSU) and an End Suppression (ESU) text-control sequence was specified within an overlay. The printer you were using when the error occurred does not allow this. The text-control sequence is in a Presentation Text Data (PTX) structured field.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the overlay, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the overlay, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS757I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE ORIENTATION OF THE FONT IS INCOMPATIBLE WITH THE CURRENT TEXT ORIENTATION.

Explanation: The orientation of the font selected to print the text does not match the current text orientation. The current text orientation is defined in a Set Text Orientation (STO) text control in a Presentation Text Data (PTX) structured field or, if you were printing a data set containing line data, in a Line Descriptor (LND) structured field in the page definition. The PTX structured field may be in MO:DCA data, an overlay, or a page segment; or it may be imbedded in a data set containing line data. The font is named in a Map Coded Font (MCF) structured field, in the page definition or in the CHARS option of the JCL. The MCF structured field is in the MO:DCA data, an overlay, or a page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If the orientation was correct but the font was wrong, specify a different font that is compatible with the desired text orientation.

If the orientation was incorrect and if you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, change the text orientation value in the STO text control. Refer to *Mixed Object Document Content Architecture Reference* for more information about specifying text orientation. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If the orientation was incorrect and you were printing a data set containing line data with a page definition that you created, change the Text Orientation value in the LND structured field. If you were printing a data set containing line data, and using a page definition created by a program, consult your system programmer.

If the orientation was incorrect and you were printing a data set containing line data with imbedded structured fields, change the text orientation value in the STO text control. Refer to *Mixed Object Document Content Architecture Reference* for more information about specifying text orientation.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was

valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS758I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE CODED FONT LOCAL IDENTIFIER OF A SET CODED FONT LOCAL TEXT CONTROL IS INVALID.

Explanation: The Coded Font Local Identifier parameter in the Set Coded Font Local (SCFL) text control in a Presentation Text Data (PTX) structured field or in the Line Descriptor (LND) structured field in the page definition is outside the valid range. The Presentation Text Data (PTX) structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the identifier in the SCFL text control. If the SCFL text control has no errors, the error may be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data, and you were using a page definition that you created, correct the identifier in the LND structured field. If the LND structured field has no errors, the error may be a PSF or printer logic error. If you were printing a data set containing line data, and you were using a page definition that you created by use of a program, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the identifier in the SCFL text control. If the SCFL text control has no errors, the error may be a PSF or printer logic error.

For the valid values of the Coded Font Local Identifier in the appropriate structured field, refer to *Mixed Object Document Content Architecture Reference*.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS759I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE TEXT ORIENTATION PARAMETER VALUE OF A SET TEXT ORIENTATION TEXT CONTROL IS INVALID.

Explanation: The Text Orientation parameter in the Set Text Orientation (STO) text control in a Presentation Text Data (PTX) structured field, or in a Line Descriptor (LND) structured field in the page definition, is invalid. The Presentation Text Data (PTX) structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the value in the STO text control.

If the STO text control has no errors, the error may be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data using a page containing line data using a page definition that you created, correct the value in the LND structured field. If the LND structured field has no errors, the error may be a PSF or printer logic error. If you were printing a data set containing line data using a page definition

that you created using a program, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the identifier in the STO text control. If the STO text control has no errors, the error may be a PSF or printer logic error.

Refer to *Mixed Object Document Content Architecture Reference* for the acceptable values of the Text Orientation parameter in the appropriate structured field.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS760I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE INLINE COORDINATE PARAMETER VALUE OF A SET INLINE MARGIN TEXT CONTROL IS INVALID.

Explanation: The Inline Coordinate parameter in the Set Inline Margin (SIM) text-control sequence is invalid. The text-control sequence is in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be in MO:DCA data, an overlay, or a page segment; or it may be imbedded in a data set containing line data. If the error occurred while PSF was processing line data, the Inline Position parameter in a Line Descriptor (LND) structured field in the page definition may be invalid.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer

logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS7611 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BASELINE INCREMENT PARAMETER VALUE OF A SET BASELINE INCREMENT TEXT CONTROL IS INVALID.

Explanation: The Baseline Increment parameter in the Set Baseline Increment (SBI) text-control sequence is invalid. The text-control sequence is in a Presentation Text Data (PTX) structured field or was generated by the PSF from a page definition. The PTX structured field may be in MO:DCA data, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the

structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS7621 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE INTERCHARACTER INCREMENT PARAMETER VALUE OF A SET INTERCHARACTER INCREMENT TEXT CONTROL IS INVALID.

Explanation: The Intercharacter Increment parameter or the optional Intercharacter Adjustment Direction parameter in the Set Intercharacter Increment (SII) text control is invalid. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer

logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS763I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BASELINE POSITION IS INVALID.

Explanation: The Baseline Print Position parameter is invalid. It may have been specified in any of three places:

- The Absolute Move Baseline (AMB) text-control sequence in a Presentation Text Data (PTX) structured field
- The Page Segment Origin in an Include Page Segment (IPS) structured field
- The Baseline Position parameter in a Line Descriptor (LND) structured field

The PTX or IPS structured field may be in MO:DCA data, an overlay, or a page segment; or it may be imbedded in a data set containing line data. The LND structured field is in the page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error,

correct the position parameter in the appropriate structured field. If the structured field has no errors, the error may be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data using a page definition that you created, correct the position parameter in the LND structured field. If the LND structured field has no errors, the error may be a PSF or printer logic error. If you were printing a data set containing line data using a page definition that you created using a program, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the position parameter in the appropriate structured field. If the structured field has no errors, the error may be a PSF or printer logic error.

For the valid values of the Baseline Position parameter in the appropriate structured field, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference*. Ensure that the AMB (Absolute Move Baseline) text control fits within the logical page size as defined by the Load Page Descriptor (LPD) command in the page definition.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS764I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE INLINE POSITION IS INVALID.

Explanation: The Inline Position parameter is invalid. It may have been specified in any of three places:

- The Absolute Move Inline (AMI) text-control sequence in a Presentation Text Data (PTX) structured field
- The Page Segment Origin in an Include Page Segment (IPS) structured field
- The Inline Position parameter in a Line Descriptor (LND) structured field

The PTX or IPS structured field may be in MO:DCA data, an overlay, or a page segment; or it may be imbedded in a data set containing line data. The LND structured field is in the page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the position parameter in the appropriate structured field. If the structured field has no errors, the error may be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data using a page definition that you created, correct the position parameter in the LND structured field. If the LND structured field has no errors, the error may be a PSF or printer logic error. If you were printing a data set containing line data using a page definition that you created using a program, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the position parameter in the appropriate structured field. If the structured field has no errors, the error may be a PSF or printer logic error.

For the valid values of the Inline Position parameter in the appropriate structured field, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference*. Ensure that the AMI (Absolute Move Inline) text control fits within the logical page size as defined by the Load Page Descriptor (LPD) command in the page definition.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS765I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE INLINE PRINT POSITION MOVE PARAMETER VALUE OF A RELATIVE MOVE INLINE TEXT CONTROL IN PTX STRUCTURED FIELD IS INVALID.

Explanation: The Inline Print Position Move parameter value is invalid in the Relative Move Inline (RMI) text control. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS766I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BASELINE PRINT POSITION MOVE PARAMETER VALUE OF A RELATIVE MOVE BASELINE TEXT CONTROL IN A PTX STRUCTURED FIELD IS INVALID.

Explanation: The Baseline Print Position Move parameter in the Relative Move Baseline (RMB) text-control sequence is invalid. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTX structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA data set, an overlay, or a page segment, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data using a page definition, and you created the structured fields for the page definition, specify a valid value for the text orientation parameter in the Line Descriptor (LND) structured field, or specify a font that can be printed in the original text orientation. If you used a program to create the structured fields for the page definition, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS767I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE TEXT STRING PARAMETER'S LENGTH OF A REPEAT STRING TEXT CONTROL IN A PTX STRUCTURED FIELD IS OUTSIDE THE VALID RANGE.

Explanation: The length of the Text String parameter in the Repeat String (RPS) text control is outside the valid range. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS768I DATA IN A FONT RESOURCE IS INVALID: A VALID LOAD FONT INDEX COMMAND CANNOT BE BUILT.

Explanation: While an index for the font was being loaded into the printer, invalid data was detected. The error could be in any of the following structured fields:

- Code page control (CPC)
- Code page index (CPI)
- Font index (FNI)
- Font orientation (FNO)

The CPC and CPI structured fields are in the code page, but the FNI and FNO structured fields are in the font character set. This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: PSF terminates the processing and printing of the data set that uses the font containing the error.

User Response: If you created the structured fields for the font or code page, check each of the parameters in each of the structured fields. For more information on the correct format of the referenced structured fields, refer to *Font Object Content Architecture Reference*. If the structured fields have no errors, the error may be a PSF or printer logic error. If you created the structured fields for the font or code page using a program, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured field for the font or the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS769I DATA IN A CODED-FONT RESOURCE IS INVALID: THE FONT SECTION IDENTIFIER IS NOT ACCEPTABLE OR IS NOT IN SEQUENCE IN THE CFI STRUCTURED FIELD.

Explanation: The Coded-Font Section Identifier parameter in a repeating group in the Coded Font Index (CFI) structured field is either invalid or out of sequence. The CFI structured field is in the coded font.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 3, 8, 13, 17.

APS770I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE COLOR SPACE VALUE IN A X'4E' TRIPLET, SET EXTENDED COLOR CONTROL SEQUENCE, OR SET PROCESS COLOR DRAWING ORDER IS INVALID OR UNSUPPORTED.

Explanation: The color space field in a X'4E' triplet, Set Extended Color control sequence, or Set Process Color drawing order contained an invalid or unsupported value for this printer.

The X'4E' triplet might have occurred on the following structured fields:

- A Page Descriptor (PGD).
- An Object Area Descriptor (OBD).

The PGD is contained in an Active Environment Group (AEG) for a page or an overlay, and the OBD is contained in an Object Environment Group (OEG) for a graphics, image, or bar code object.

The Set Extended Color control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be imbedded in a data set containing line data.

The Set Process Color drawing order is located in a Graphics Data (GAD) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or, it might be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the object is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If the structured fields are invalid and you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

If the color value is unsupported by this printer, resubmit the print request to a printer that does support this color value.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS771I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE HORIZONTAL PEL COUNT VALUE IS LESS THAN 1 PEL IN AN ICP OR IID STRUCTURED FIELD.

Explanation: The size of an image cell or image block in the X-dimension is less than the minimum allowed. The size may be specified in the X-dimension subparameter of the following:

- The Image Cell Size parameter in the Image Cell Position (ICP) structured field
- The Image Size parameter in the Image Input Descriptor (IID) structured field

The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS772I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE HORIZONTAL PEL COUNT VALUE IS GREATER THAN THE MAXIMUM ALLOWED IN AN ICP OR IID STRUCTURED FIELD.

Explanation: The size of an image block or image cell in the X-dimension is greater than the maximum allowed. The size may be specified in the X-dimension subparameter of the following:

- The Image Cell Size parameter in the Image Cell Position (ICP) structured field
- The Image Size parameter in the Image Input Descriptor (IID) structured field

The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content Architecture (IOCA), PSF may have converted your IOCA image to an IM1 image. In this case, the IDD structured field contains an image X-dimension that is larger than the maximum allowed.

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS773I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE VERTICAL PEL COUNT VALUE IS LESS THAN 1 PEL IN AN ICP OR IID STRUCTURED FIELD.

Explanation: The size of an image cell or image block in the Y-dimension is less than the minimum allowed. The size may be specified in the Y-dimension subparameter of the following:

- The Image Cell Size parameter in the Image Cell Position (ICP) structured field
- The Image Size parameter in the Image Input Descriptor (IID) structured field.

The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content Architecture (IOCA), PSF may have converted your IOCA image to an IM1 image. In this case, the IOCA image size is specified in the IDD structured field. This value is less than the minimum allowed.

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the

print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS774I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE IMAGE VERTICAL PEL COUNT VALUE IS GREATER THAN THE MAXIMUM ALLOWED IN AN ICP OR IID STRUCTURED FIELD.

Explanation: The size of an image cell or image block in the Y-dimension is greater than the maximum allowed. The size may be specified in the Y-dimension subparameter of the following:

- The Image Cell Size parameter in the Image Cell Position (ICP) structured field
- The Image Size parameter in the Image Input Descriptor (IID) structured field.

The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content Architecture (IOCA), PSF may have converted your IOCA image to an IM1 image. In this case, the IDD structured field contains an image Y-dimension that is larger than the maximum allowed.

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured

field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS775I DATA IN A FORMDEF RESOURCE IS INCOMPATIBLE WITH THE PRINT REQUEST: THE OUTPUT CONTAINS TOO MANY OR TOO FEW SHEETS TO PERFORM THE FINISHING OPERATION SPECIFIED IN THE MEDIUM FINISHING CONTROL STRUCTURED FIELD.

Explanation: A finishing operation was requested for a collection of sheets, but the number of sheets was too large or too small for the operation.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is applied incompletely.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If errors caused message pages to be added to the output or caused pages to be skipped, fix those errors so the correct number of pages is printed.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS776I THE POST PROCESSOR HAS DETECTED A CONDITION THAT CAUSES PAGES TO BE DISCARDED.

Explanation: Paper in the post processor was discarded. The printer detected and reported an asynchronous intervention-required error with an action code of X'0A' (sense byte 2). For more information about this error, refer to the printer publications for the printer than reported this error.

System Action: PSF retransmits pages to the printer starting from the Jam Recovery Printer Counter. Pages may be duplicated during recovery. If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper from the printer and post processor. PSF assumes that pages between the Jam Recovery Printer Counter and the Stacked Printer Counter are not damaged and do not need to be reprinted. If any pages between these two printer counters do need to be reprinted, use the Job Entry Subsystem (JES) BACKSPACE command.

Problem Determination: Items 1, 8, 18.

APS777I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE INLINE DIRECTION COMPONENT OF THE ORIENTATION PARAMETER IN AN IOC STRUCTURED FIELD IS INVALID.

Explanation: The Inline Direction Component of the Orientation parameter in an Input Output Control (IOC) structured field is invalid. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content Architecture (IOCA), PSF may have converted your

IOCA image to an IM1 image. In this case, the invalid value is in the OBP structured field.

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS778I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BASELINE DIRECTION COMPONENT OF THE ORIENTATION PARAMETER IN AN IOC STRUCTURED FIELD IS INVALID.

Explanation: The Baseline Direction Component of the Orientation parameter in an Input Output Control (IOC) structured field is invalid. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content Architecture (IOCA), PSF may have converted your IOCA image to an IM1 image. In this case, the invalid value is in the OBP structured field.

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS779I THE STARTING PEL COORDINATES SPECIFIED FOR THE IMAGE WOULD PLACE ALL OR PART OF THE IMAGE TO THE RIGHT OF THE LOGICAL PAGE.

Explanation: Either the X-Position parameter in the Image Cell Position (ICP) structured field or the Horizontal Coordinate parameter in the Image Output Control (IOC) structured field is within the valid range, but is greater than the Horizontal Page Size parameter in the Page Descriptor (PGD) structured field. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field. The PGD structured field is in the MO:DCA data, the overlay, or a page definition.

For a Begin Image Block (BIM) structured field in a line-data page, the offset is relative to the current print position before the image. For a BIM structured field in

the MO:DCA data, the offset is relative to the page origin. For a BIM structured field included in a page segment, the offset is relative to the page segment origin.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data or an overlay, and you created the structured fields in the object containing the error, change the page size in the print data set or an overlay. If you were printing MO:DCA data or an overlay, and you used a program to create the structured fields in the object containing the error, change your input to that program to increase the page size in the print data set or the overlay. If you were printing a data set containing line data, change the page size in the page definition.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS780I THE STARTING PEL COORDINATES SPECIFIED FOR THE IMAGE WOULD PLACE ALL OR PART OF THE IMAGE BEYOND THE BOTTOM OF THE LOGICAL PAGE.

Explanation: Either the Y-Position parameter in an Image Cell Position (ICP) structured field or the Vertical Coordinate parameter in an Image Output Control (IOC) structured field is within the valid range, but is greater than the Vertical Page Size parameter in the Page Descriptor (PGD) structured field. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field. The PGD structured field is in MO:DCA data, an overlay, or a page definition.

For a Begin Image Block (BIM) structured field in a line-data page, the offset is relative to the current print position before the image. For a BIM structured field in the MO:DCA data, the offset is relative to the page origin. For a BIM structured field included in a page

segment, the offset is relative to the page segment origin.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data or an overlay, and you created the structured fields in the object containing the error, change the page size in the print data set or the overlay. If you were printing MO:DCA data or an overlay, and you used a program to create the structured fields in the object containing the error, change your input to that program to increase the page size in the print data set or an overlay. If you were printing a data set containing line data, change the page size in the page definition.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS781I THE CANCEL BUTTON ON THE PRINTER CONTROL PANEL WAS PRESSED WHILE THE PRINTER WAS PROCESSING A DATA SET.

Explanation: The printer detected and reported that the cancel button on the printer control panel was pressed while the printer was processing a data set.

System Action: PSF causes the printer to discard the printer's buffered data. Then, if the Stacked Copy Printer Counter is greater than zero, PSF cancels the data set at the Stacked Page Printer Counter plus 1. Otherwise, PSF cancels the data set at the Stacked Page Printer Counter.

User Response: If desired, resubmit the print request that was canceled. If the error condition persists, consult the operator to see why the cancel button is being pressed.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS782I THE PAGE BEING PROCESSED WAS TOO COMPLEX TO PRINT. ONE OR MORE OBJECTS MAY HAVE TO BE REMOVED FROM THE PAGE IN ORDER TO PRINT IT.

Explanation: This error is a result of either too many items (for example, images) being placed on a page, or too many overstrikes being requested. The printer detected and reported an I/O error with an action code of X'09' (sense byte 2). This message is accompanied by a message that presents the printer sense bytes.

System Action: When the print error is detected, the printer attempts to print at least part of the page containing the error. PSF causes the printer to discard the printer's buffered data. PSF then terminates the data set at the Stacked Page Printer Counter plus 1.

User Response: Remove one or more resources from the page, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS783I THE MAGNET SETTINGS OF THE CASSETTE WERE CHANGED AFTER THE PAGE WAS PROCESSED BUT BEFORE THE PAGE WAS PRINTED.

Explanation: The magnet settings of the cassette were not the same at the time the page was printed as they were when the page was formatted on the printer. The printer detected and reported an asynchronous error with an action code of X'23' (sense byte 2).

System Action: PSF causes the printer to discard the printer's buffered data. PSF retransmits pages to the printer, starting from the Stacked Page Printer Counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set.

User Response: Check your output for duplicate pages. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 8, 18.

APS784I A SERIALIZER PARITY ERROR OCCURRED DURING THE PRINTING OF THIS DATA SET.

Explanation: The serializer card in the printer generated an incorrect parity. The printer detected and reported an asynchronous error with an action code of X'23' (sense byte 2). This is a temporary hardware error.

System Action: PSF causes the printer to discard the printer's buffered data. PSF retransmits pages to the printer, starting from the Stacked Page Printer Counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set.

User Response: Check your output for duplicate pages. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 8, 18.

APS785I AN IMAGE EXTENDS OFF THE RIGHT OF THE LOGICAL PAGE.

Explanation: Either the X-Position parameter in an Image Cell Position (ICP) structured field or a Horizontal Coordinate parameter in an Image Output Control (IOC) structured field is outside the valid range. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field. If the image is part of a page segment, an overlay, or MO:DCA data, the image block origin is described as a displacement from the origin of the page segment, overlay, or MO:DCA data page. If the image is part of a line-data page, the image block origin is described as a displacement from the current Line Descriptor (LND) structured field. The LND structured field is contained in the page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object*

Document Content Architecture Reference for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS786I AN IMAGE EXTENDS OFF THE BOTTOM OF THE LOGICAL PAGE.

Explanation: Either the Y-Position parameter in an Image Cell Position (ICP) structured field or a Vertical Coordinate parameter in an Image Output Control (IOC) structured field is outside the valid range. The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field. If the image is part of a page segment, an overlay, or a MO:DCA data page, the image block origin is described as a displacement from the origin of the page segment, overlay, or MO:DCA data page. If the image is part of a line-data page, the image block origin is described as a displacement from the current Line Descriptor (LND) structured field. The LND structured field is contained in the page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the

structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS7871 AN IMAGE GENERATOR ERROR OCCURRED DURING THE PRINTING OF THIS DATA SET.

Explanation: The printer detected and reported an asynchronous error with an action code of X'23' (sense byte 2). This is a temporary hardware error. For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF causes the printer to discard the printer's buffered data. PSF retransmits pages to the printer, starting from the Stacked Page Printer Counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set.

User Response: Check your output for duplicate pages. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 8, 18.

APS7881 ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA.

Explanation: An attempt was made to print outside the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. Characters, rules, or image

cells fall at least partially outside of the valid printable area. Note that a data-stream image may consist of a number of image cells, and each cell is sent to the printer as one image.

System Action: Characters and images that were not defined completely within the valid printable area are not printed. Rules are printed up to the area boundary. The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATAKEY keyword on the OUTPUT JCL statement.

If you want to correct the source of the problem, you could change the size of the logical page. If you want the logical page size to remain the same and if you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, and you were using a page definition that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with imbedded structured fields, check the PTX structured field for positioning outside of the page.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS790I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE BEGIN/END SUPPRESSION TEXT CONTROL PARAMETER VALUE IS OUTSIDE THE VALID RANGE.

Explanation: The suppression ID for the Begin Suppression (BSU) and End Suppression (ESU) text control is outside of the valid range. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS791I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE REPEAT STRING TEXT CONTROL LENGTH VALUE IN A PTX STRUCTURED FIELD IS INVALID.

Explanation: The Length parameter in a Repeat String (RPS) text control was nonzero, but the Text String parameter had zero length. The RPS text control is in a Presentation Text Data (PTX) structured field. The Presentation Text Data (PTX) structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a program to create its structured fields, contact your system programmer.

If you were printing a MO:DCA document containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS792I DATA IN A CODE PAGE RESOURCE IS INVALID: DOUBLE-BYTE CHARACTER FLAGS ARE INVALID.

Explanation: In the Code Page Index (CPI) or Code Page Control (CPC) structured fields, an invalid flag combination was specified for a character of a double-byte font. The CPC and CPI structured fields are in the code page.

System Action: PSF terminates the processing and printing of the data set that uses the font containing the error.

User Response: If you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the code page, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS793I THE PAGE DIMENSIONS SPECIFIED WERE LARGER THAN THE MAXIMUM ALLOWABLE DIMENSIONS.

Explanation: The meaning of this message depends on the printer. For all printers except the 3800 printers, the sum of the Y-Origin parameter in the Page Position (PGP) structured field and the Vertical Page Size parameter in the Page Descriptor (PGD) structured field should not exceed the addressability limit of the printer. Nor should the sum of the X-Origin parameter in the PGP structured field and the Horizontal Page Size parameter in the PGD structured field exceed the addressability limit of the printer. The PGD structured field is in the MO:DCA data, an overlay, or a page definition. The PGP structured field is in the form definition.

For the 3800 printers, the sum of the Y-Origin parameter in the Page Position (PGP) structured field

and the Vertical Page Size parameter in the Page Descriptor (PGD) structured field should not exceed the maximum Y values of the paper sizes listed below. Nor should the sum of the X-Origin parameter in the PGP structured field and the Horizontal Page Size parameter in the PGD structured field exceed the maximum X values of the paper sizes listed below. The PGD structured field is in the MO:DCA data, an overlay, or a page definition. The PGP structured field is in the form definition.

Common paper sizes

X-dimension 3330

Y-dimension 2640

ISO paper sizes

X-dimension 3330

Y-dimension 2880

Additional ISO paper sizes

X-dimension 3330

Y-dimension 3000

These values represent the maximum common and maximum ISO paper sizes. For more information about the maximum X- and Y-dimensions of other paper sizes, refer to *IBM 3800 Printing Subsystem Models 3, 6, and 8 Operator's Guide*.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Ensure that the correct form was loaded in the printer. If it was, and you were printing MO:DCA data or an overlay and you created the structured fields in the object containing the error, change the page size in the print data set or an overlay. You could also change the page origin in the form definition.

If you were printing MO:DCA data or an overlay, and you used a program to create the structured fields in the object containing the error, change your input to that program to reduce the page size in the print data set or overlay. You could also change the page origin in the form definition.

If you were printing a data set containing line data, change the page position in the page definition, or change the page origin in the form definition.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS794I THE PAGE OR PAPER SIZE IS GREATER THAN THE PRINTER ACCUMULATOR STORAGE CAPACITY.

Explanation: The physical page requires the accumulator. The page size of the form loaded in the printer is too large for the accumulator.

System Action: PSF causes the printer to discard the printer's buffered data and to delete all overlays, page segments, and fonts. On the first occurrence of this error, the message is printed on a separate sheet in the data set to mark the position before recovery starts. PSF recovers by retransmitting pages to the printer, starting from the last known Committed Page Printer Counter plus 1. On the second occurrence of this error, the message is printed at the end of the message data set, and the data set is terminated at the Committed Page Printer Counter plus 1.

User Response: Request a smaller page size, and ensure that the print request is routed to the appropriate output class. Otherwise, run the print request on a printer with a different size accumulator, if available. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Problem Determination: Items 1, 2, 17, 27.

APS796I A PAPER JAM OR A POST PROCESSOR RESYNCHRONIZATION OCCURRED DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The paper in the printer was jammed. The printer detected and reported an asynchronous intervention-required error with an action code of X'08' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF retransmits pages to the printer starting from the Jam Recovery Printer Counter plus 1. PSF may print message APS711I on a separate sheet in the data set to mark the position where the recovery from this error was started. Pages may be duplicated

during the recovery. If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper jam in the printer. PSF assumes that pages between the Jam Recovery Printer Counter and the Stacked Printer Counter are not damaged by the paper jam and do not need to be reprinted. If any pages between these two printer counters do need to be reprinted, use the Job Entry Subsystem (JES) BACKSPACE command.

Problem Determination: Items 1, 8, 18.

APS797I THE PAGE BEING PROCESSED WAS TOO COMPLEX TO BE PRINTED AND WAS SKIPPED. ONE OR MORE OBJECTS MAY HAVE TO BE REMOVED FROM THE PAGE IN ORDER TO PRINT IT.

Explanation: An equipment check at print time indicated that either a strip-buffer overrun or an insufficient accumulator storage condition (includes the condition of no accumulator installed) occurred. The page at the Committed Page Printer Counter was too complex to print; therefore, the page was skipped. The printer detected and reported an asynchronous error with an action code of X'09' (sense-byte 2).

System Action: PSF retransmits pages to the printer starting from the Committed Page Printer Counter plus 2 in order to skip the page that was too complex to print. PSF prints this message on a separate sheet in the data set to mark the position at which the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set. If repositioning is not supported in the current environment, the data set is terminated.

User Response: Remove some of the resources on the page (for example, overlays, images, fonts, or page segments), or remove some of the data from the page, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS798I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE LENGTH PARAMETER VALUE OF A REPEAT STRING TEXT CONTROL IN A PTX STRUCTURED FIELD IS INVALID

Explanation: The Length parameter in a Repeat String (RPS) text control is invalid. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS799I THE DEMANDS FOR PRINTER {WCS | RPS} STORAGE ARE ADVERSELY AFFECTING PRINTER THROUGHPUT. THE PRINTED OUTPUT SHOULD BE ACCEPTABLE.

Explanation: Not enough writable-control storage (WCS) or raster-pattern storage (RPS) was available to complete the page. This message was issued to indicate that multiple resources in the printer have used all of the WCS or RPS storage, and the data set was printed with the accumulator feature. The complexity of the page or resources from previous pages or data sets may be causing the printer to run slower than usual.

System Action: The printer prints the page containing the error, using the accumulator. If the page contains any position errors, the print-error markers are printed on the page containing the error. PSF attempts to free some of the printer storage by deleting (1) all overlays in the printer, (2) all page segments in the printer, or (3) all resources in the printer. The page that caused this error to be reported has already been printed; so PSF continues processing the current data set with the page after the page containing the error.

If repositioning is not supported in the current environment, the channel program is re-driven on the next channel command.

User Response: If the printed output is not acceptable, make the page less complicated by deleting resources (for example overlays, page segments, and fonts), or print the data set on a printer with more of the type of storage that was exceeded. If greater throughput is desired, you could remove some of the resources used for the data set in order to reduce the page complexity. If the problem persists, notify your system programmer.

System Programmer Response: If the printer throughput is unacceptable, consider acquiring additional printer storage, if possible.

Operator Response: If the problem persists, notify your system programmer of this error.

Problem Determination: Items 1, 2, 17, 27.

APS800I AN ERROR OCCURRED WHILE PSF WAS PROCESSING A SECURE OVERLAY.

Explanation: The printer detected and reported a data stream error in a secure overlay.

System Action: The page containing the secure overlay cannot be printed. Processing of the data set stops. PSF will release the current data set back to JES and will request that it be held by the system.

User Response: See the specific error conditions described in the accompanying messages to determine an appropriate response.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 2, 12, 18.

APS8011 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: DOUBLE-BYTE FONT TEXT DATA LENGTH MUST BE A MULTIPLE OF 2.

Explanation: While processing text data that uses a double-byte font, the printer detected that the Length of the Text parameter in either a Repeat String (RPS) text control or a Transparent Data (TRN) text control was not a multiple of two. Either an even number of bytes of source data was not specified on the text control, or a double-byte font was selected when the user intended for the data to be printed with a single-byte font. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you did not intend to use a double-byte font, correct the font specification to name a single-byte font.

If you did intend to use a double-byte font in printing the MO:DCA data, and you created the structured fields for the print data set, overlay, or page segment, correct the RPS or TRN text control. If the RPS or the TRN text control has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the print data set, overlay, or page segment, consult your system programmer.

If you intended to use a double-byte font in printing a data set containing line data with imbedded structured fields, correct the RPS or TRN text control. If the RPS or TRN text control has no errors, the error may be a PSF or printer logic error.

If you intended to print a data set containing line data using a double-byte font, the error may be a PSF or printer logic error.

Refer to *Mixed Object Document Content Architecture Reference* for the acceptable format of RPS and TRN text controls.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS8021 THE PRINTER ENCOUNTERED AN ACCUMULATOR READ CHECK. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: A read-check error was sensed by the accumulator feature circuits. The printer detected and reported an equipment check error with an action code of X'0F' (sense-byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF causes the printer to discard the printer's buffered data and to delete all the overlays in the printer. PSF retransmits pages to the printer, starting from the Committed Page Printer Counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. Pages may be duplicated during the recovery. If repositioning is not supported in the current environment then the data set is terminated.

User Response: Check the printed output for duplicate pages. If the problem persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 18.

APS803I AN UNEXPECTED I/O ECB COMPLETION CODE (completion code) WAS DETECTED.

Explanation: The PSF I/O Error Manager subcomponent detected the Event Control Block (ECB) that was reported in this message. Valid ECB completion codes are X'41', X'44', X'48', and X'7E'.

System Action: PSF terminates with a dump. The Job Entry Subsystem (JES) queues the print request again.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: To interpret the ECB completion code, refer to *DFSMS/MVS Using Data Sets*. If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before consulting the IBM Support Center. If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 9, 17.

APS804I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE LENGTH PARAMETER OF A REPEAT STRING TEXT CONTROL IN A PTX STRUCTURED FIELD MUST BE A MULTIPLE OF 2 FOR A DOUBLE-BYTE FONT.

Explanation: While processing text data that uses a double-byte font, the printer detected that the target length of the data to be printed was not a multiple of two. Either the Length parameter in a Repeat String (RPS) text control is invalid, or a double-byte font was selected when a single-byte font was intended to print the data. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you did not intend to use a double-byte font, correct the font specification to name a single-byte font.

If you intended to print the MO:DCA data with a double-byte font, and you created the structured fields for the print data set, overlay, or page segment, correct

the RPS text control. If the RPS text control has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the print data set, overlay, or page segment, consult your system programmer.

If you intended to use a double-byte font to print a data set containing line data with imbedded structured fields, correct the RPS text control.

If the RPS text control has no errors, the error may be a PSF or printer logic error. For the valid format of the RPS text control, refer to *Mixed Object Document Content Architecture Reference*.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS805I DATA IN A FORMDEF RESOURCE IS INVALID: THE MAXIMUM HORIZONTAL ADJUSTMENT VALUE SPECIFIED IN THE MMC STRUCTURED FIELD IS GREATER THAN THE MAXIMUM ALLOWED BY THE PRINTER.

Explanation: The horizontal adjustment range specified in the Medium Modification Control (MMC) structured field Modification parameter is invalid. The value is greater than the maximum allowed. The operator can make an adjustment ranging from zero to twice the value of this parameter. If more than one MMC structured field reports an adjustment value, the maximum value is specified to the operator. The MMC structured field is contained in the form definition.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS806I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE COLOR VALUE FIELD IN A X'4E' TRIPLET, SET EXTENDED COLOR CONTROL SEQUENCE, OR SET PROCESS COLOR DRAWING ORDER IS INVALID OR UNSUPPORTED.

Explanation: The color value field in a X'4E' triplet, Set Extended Color control sequence, or Set Process Color drawing order contained an invalid or unsupported value for this printer. The X'4E' might have occurred on the following structured fields:

- A Page Descriptor (PGD).
- An Object Area Descriptor (OBD).

The PGD is contained in an Active Environment Group (AEG) for a page or an overlay, and the OBD is contained in an Object Environment Group (OEG) for a graphics, image, or bar code object.

The Set Extended Color control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be imbedded in a data set containing line data.

The Set Process Color drawing order is located in a Graphics Data (GAD) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be imbedded in a data set containing line data.

System Action: The printer you were using might attempt to print the page in error using a substituted color value. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the object is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If the structured fields are invalid and you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

If the color value is unsupported by this printer, resubmit the print request to a printer that does support this color value.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS807I THERE IS INSUFFICIENT PRINTER WCS STORAGE TO PRINT THE PAGE. ONE OR MORE OBJECTS MAY HAVE TO BE REMOVED FROM THE PAGE IN ORDER TO PRINT IT.

Explanation: Either the page is too complex for the Writable Control Storage (WCS), or both sides of a duplexed sheet are collectively too complex for the available WCS. This is caused by too much text or too many images or draw rules. This message is accompanied by a message that presents the printer sense bytes.

System Action: PSF causes the printer to discard the printer's buffered data. PSF then terminates the data set at the Stacked Page Counter plus one.

User Response: Simplify the page that was too complex to print. One or more resources may have to be removed from the page in order to print it. Resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS808I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: LESS IMAGE DATA WAS PROVIDED IN THE IRD STRUCTURED FIELD THAN WAS NEEDED FOR THE SIZE OF THE IMAGE SPECIFIED IN THE IID OR ICP STRUCTURED FIELDS.

Explanation: The amount of raster data sent in one or more Image Raster Data (IRD) structured fields was not sufficient to complete the image. The number of bytes of source image data sent in one or more IRD structured fields should equal the product of the source-pel count and the source-scan count.

If the printer does not support Image Object Content Architecture (IOCA), PSF may have converted your IOCA image to an IM1 image. In this case, the image size is also specified in the IDD structured field.

The values for the source-pel count and source-scan count can be specified in three separate parameter combinations in the Image Input Descriptor (IID) structured field or the Image Cell Position (ICP) structured field:

- The X-dimension and Y-dimension of the Image Size parameter in the IID structured field.
- The Cell Size X-dimension and Cell Size Y-dimension of the Default Image Cell Size parameter in the IID structured field.
- The X-dimension and Y-dimension of the Image Cell Size parameter in the ICP structured field.

The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS809I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: MORE IMAGE DATA WAS PROVIDED IN THE IRD STRUCTURED FIELD THAN WAS NEEDED FOR THE SIZE OF THE IMAGE SPECIFIED IN THE IID OR ICP STRUCTURED FIELDS.

Explanation: The amount of raster data sent in one or more Image Raster Data (IRD) structured fields was more than was specified to complete the image. The number of bytes of source image data sent in one or more IRD structured fields should equal the product of the source-pel count and the source scan-count. More raster data was received in the Raster Pattern parameter in one or more IRD structured fields than was specified by this number.

If the printer does not support Image Object Content Architecture (IOCA), PSF may have converted your IOCA image to an IM1 image. In this case, the image size is also specified in the IDD structured field.

The values for the source-pel count and source-scan count can be specified in three separate parameter combinations in the Image Input Descriptor (IID) structured field or the Image Cell Position (ICP) structured field:

- The X-dimension and Y-dimension of the Image Size parameter in the IID structured field
- The Cell Size X-dimension and Cell Size Y-dimension of the Default Image Cell Size parameter in the IID structured field
- The X-dimension and Y-dimension of the Image Cell Size parameter in the ICP structured field

System Action: If the image is in a page, the printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported

another error that required a more severe PSF recovery action.

If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS810I DATA IN A FONT RESOURCE IS INVALID: THE PATTERN DATA COUNT PARAMETER IN THE FNC STRUCTURED FIELD MUST BE A MULTIPLE OF 4 FOR A DOUBLE-BYTE FONT

Explanation: The Pattern Data Count parameter of the Font Control (FNC) structured field is invalid. The FNC structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the

font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS811I DATA IN A FONT RESOURCE IS INVALID: MORE FONT DATA WAS RECEIVED THAN WAS DEFINED IN THE PATTERN DATA COUNT PARAMETER OF THE FNC STRUCTURED FIELD.

Explanation: The Pattern Data Count parameter in the Font Control (FNC) structured field specified fewer bytes of data than were sent in one or more Font Pattern (FNG) structured fields. The FNC and FNG structured fields are in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS812I DATA IN A FONT RESOURCE IS INVALID: LESS FONT DATA WAS RECEIVED THAN WAS DEFINED IN THE PATTERN DATA COUNT PARAMETER OF THE FNC STRUCTURED FIELD.

Explanation: The Pattern Data Count parameter of the Font Control (FNC) structured field specified more bytes of data than were sent in one or more Font Pattern (FNG) structured fields. The FNC and FNG structured fields are in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS813I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE TEXT CONTROL ESCAPE SEQUENCE MUST BE X'2BD3'.

Explanation: While processing text, the printer detected an escape character X'2B' that was not immediately followed by X'D3'. The escape sequence is in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The Presentation Text Data (PTX) structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any

positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS814I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SHADING OR COVERAGE VALUE IN A X'4E' TRIPLET, SET EXTENDED COLOR CONTROL SEQUENCE, OR SET PROCESS COLOR DRAWING ORDER IS INVALID OR UNSUPPORTED.

Explanation: The percent coverage, the percent shading, or both fields in a X'4E' triplet, Set Extended Color control sequence, or Set Process Color drawing order contained an invalid or unsupported value for this printer.

The X'4E' triplet might have occurred on the following structured fields:

- A Page Descriptor (PGD).
- An Object Area Descriptor (OBD).

The PGD is contained in an Active Environment Group (AEG) for a page or an overlay, and the OBD is contained in an Object Environment Group (OEG) for a graphics, image, or bar code object.

The Set Extended Color control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be imbedded in a data set containing line data.

The Set Process Color drawing order is located in a Graphics Data (GAD) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or, it might be embedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the object is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If the structured fields are invalid and you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

If the color value is unsupported by this printer, resubmit the print request to a printer that does support this color value.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS815I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: AN IMBEDDED TEXT CONTROL LENGTH FIELD VALUE IS OUT OF RANGE.

Explanation: While processing an embedded text control, the printer detected that the value of a text control length byte was outside the valid range for the specified text control. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS816I AN INCORRECT DATA TRANSFER COUNT OR AN INVALID PRINTER COMMAND LENGTH WAS DETECTED WHILE TRANSMITTING THIS DATA SET TO THE PRINTER. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: While processing a printer command, the printer detected a printer command with a length that was outside the valid range for the specific printer command (except the 3800 Models 3, 6, and 8).

While processing a 3800 printer command, the printer detected that the channel data transfer count was invalid.

The formatted printer sense byte message that accompanies this message identifies the command containing the error.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Verify the printer command length or data count, and examine the 24 bytes of sense data in the formatted printer sense byte message. For more information about printer sense bytes and this error, refer to the printer publications for the printer that reported this error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS817A AN INTERFACE CONTROL CHECK WAS RECEIVED. SOFTWARE RECOVERY IS IN PROGRESS. IF THE DEVICE *prtnnnn* INDICATES A SUCCESSFUL INITIAL MICROCODE LOAD (IML), MAKE THE DEVICE READY.

Explanation: This message indicates that an interface-control check has occurred. This condition occurred because the channel detected errors on the interface between the control unit and the channel. A hardware problem may exist. Because of these errors, the channel will perform a system reset, a selective reset, or an interface disconnect sequence. A system reset or selective reset will cause the printer to restart the initial microcode load (IML) facility that is built into that device. When an IML is completed successfully, the

printer presents a unit check to PSF with an action code of X'0D' (sense byte 2). The printer display panel informs the operator of the successful IML and the condition of the printer. To determine what is actually displayed on the printer's display panel for a successful IML, refer to the printer publications for the printer that reported this error. An interface disconnect sequence will be transparent to PSF.

System Action: PSF attempts to resynchronize with the printer by performing I/O until the interface control check is either cleared or determined to be permanent. PSF then performs its error recovery.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: If necessary, press RESET, READY, or START on the printer. For more information about IMLs and the appropriate response, refer to the reference publication or the operator's guide for the printer that reported the error. If the error persists or the recovery was unsuccessful, stop PSF and consult your system programmer.

Problem Determination: Items 1, 8, 18.

APS818I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE FONT IDENTIFIER SPECIFIED IN A SET CODED FONT LOCAL TEXT CONTROL WAS NOT MAPPED IN THE PRINTER.

Explanation: The Coded Font Local identifier in a Set Coded Font Local (SCFL) text control contains an invalid value. The value is not valid, for one of the following reasons:

- It is outside the valid range.
- It was not specified in the Map Coded Font (MCF) structured field.
- An attempt was made to use a printer-resident font in an orientation that is not available.

The SCFL text control is in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The Presentation Text Data (PTX) structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data. The MCF structured field may be in MO:DCA data, an overlay, or a page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If the error was caused by the unavailability of a printer-resident font orientation, select a different font if possible. If you cannot use a different font, consult your system programmer.

If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the SCFL identifier with the MCF structured field. If the structured fields have no errors, the error may be a PSF or printer logic error, or the result of an attempt to use a printer-resident font in an orientation that is not available. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data, and you were using a page definition that you created, ensure that the MCF structured field contains all the fonts you want to use in this data set. If the MCF structured field has no errors, the error may be a PSF or printer logic error, or the result of an attempt to use a printer-resident font in an orientation that is not available. If you were printing a data set containing line data, and you were using a page definition that you created by use of a program, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, check the SCFL identifier with the MCF structured field. If the structured field has no errors, the error could be a PSF logic error, a printer logic error, or the result of an attempt to use a printer-resident font in an orientation that is not available.

For more information on the correct format of the referenced structured fields, refer to *Mixed Object Document Content Architecture Reference*.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the error involves a font that is marked for use as a resident font, and if an orientation of the font is required that is not resident in the printer, use the APSRMARK utility to mark the font PRIVATE, so that the system version is sent to the printer. Alternatively, you can supply a new font that is equivalent to the requested font but not marked for use as a resident font, and provide the name of the new font to the print-job submitter whose application requested the font orientation that was not available in the printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

AP5819I DOUBLE-BYTE FONT CHARACTER SETS ARE NOT SUPPORTED ON PRINTER *printer number*. ROUTE THE JOB TO A PRINTER THAT DOES SUPPORT DOUBLE-BYTE FONTS.

Explanation: The printer named does not support double-byte fonts.

System Action: The data set that was being processed at the time of the error is marked unprintable and is terminated. PSF will release the current data set back to JES and will request that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Change the output class for the next submission. Consult the system operator to have the print request released to a printer that can process double-byte fonts.

System Programmer Response: No response is necessary.

Operator Response: Release the print request as requested. If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that allows double-byte fonts. For a JES command to release the data set for printing, refer to the publication containing JES commands for your operating system.

Problem Determination: Items 1, 2, 17, 27.

AP5820I A PARAMETER VALUE IN A FORMDEF RESOURCE IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN UNSUPPORTED FINISHING OPERATION COUNT VALUE.

Explanation: The finishing operation count field (byte 6) in a finishing operation triplet (X'85') contains an unsupported value.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS821I INSUFFICIENT [WCS | FONT | CPS | RPS | PST | PBS | INTERNAL] PRINTER STORAGE IS AVAILABLE TO CONTINUE PROCESSING THE DATA SET.

Explanation: The printer detected and reported an out-of-storage error with an action code of X'0C' (sense byte 2). A request for raster-pattern storage (RPS), writable-control storage (WCS), compressed-pattern storage (CPS), pattern storage (PST), or page-buffer storage (PBS) exceeded the available storage resources of the printer. If the word FONT is included in the message, the printer has insufficient RPS storage or WCS (3820 only) storage to load the font. If the word INTERNAL is included in the message, the printer does not differentiate between different subpools of storage and therefore merely indicates that its storage has been exceeded. This message is accompanied by a message that presents the printer sense bytes.

System Action: PSF issues this message only after it has attempted to resolve the out-of-storage error condition by deleting all resources in the printer that the current page at the Received Page Counter does not require, and then resending the page. If PSF receives a second action code X'0C' error for the same page at

the Received Page Counter, PSF issues this message and terminates the data set. If repositioning is not supported in the current environment, the data set is terminated when PSF receives the first resource-constraint error.

User Response: If data stream errors stopped the processing of the page just before the page for which APS821I was issued, correct the data stream errors first and resubmit the print request. The condition that caused message APS821I to be issued may be resolved once the other errors have been corrected. If the error is not due to data stream errors, this error occurred either because a page or a resource is too complex, or because the combination of two sides of a duplexed sheet is too complex. Make the page or resource less complex by deleting resources (for example, text, images, page segments, overlays, or fonts). Resubmit the print request.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS822I A PRINTER UNIT CHECK AFTER AN INITIAL MICROCODE LOAD HAS OCCURRED. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The printer presented a unit check with an action code of X'0D' (sense byte 2) to indicate that one of the following had occurred:

- The printer was IMLed in a normal manner.
- The printer was switched from an Offline state to an Online state.
- The printer IMLed because of a printer-detected error.
- The channel issued a System Reset (this applies only to channel-attached printers).
- The channel issued a Selective Reset (this applies only to channel-attached printers).

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: Pages in the printer's page buffer and all resources in the printer are lost. The printer resets its

printer counters to zero. PSF retransmits pages to the printer, starting from the last known Committed Page Printer Counter or Jam Page Printer Counter. PSF prints a message on a separate sheet in the data set to mark the position at which the recovery from this error was started. PSF also prints the same message at the end of the data set to indicate that the message was printed within the data set. Pages may be duplicated during the recovery. If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error persists, consult your system programmer.

System Programmer Response: If the printer performs an excessive number of automatic IMLs, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: If necessary, press RESET and READY on the printer.

Problem Determination: Items 1, 8, 18.

APS8231 AN ERROR OCCURRED WHILE PROCESSING AN ELECTRONIC OVERLAY OR A BASE PAGE IN THE PRINTER ACCUMULATOR.

Explanation: The printer detected and reported a data check with an action code of X'10' (sense byte 2). This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: PSF causes the printer to discard the printer's buffered data and to delete all overlays, page segments, and fonts. On the first occurrence of this error, the message is printed on a separate sheet in the data set to mark the position before recovery starts. PSF recovers by retransmitting pages to the printer, starting from the last known Committed Page Printer Counter plus 1. On the second occurrence of this error, the message is printed at the end of the message data set, and the data set is terminated at the Committed Page Printer Counter plus 1.

User Response: If the output is not acceptable, resubmit the print request. If the error persists, the overlay or page may need to be modified.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS8241 THE MAXIMUM NUMBER OF FONTS IS ALREADY LOADED.

Explanation: While PSF was loading fonts, the maximum number of fonts allowed on a single sheet was reached.

System Action: PSF recovers from the error by deleting any fonts that are not needed for the current page and then retransmitting pages from the Received Page Counter plus one. If the error persists, PSF terminates processing and printing the data set that contains this error. If repositioning is not supported in the current environment, the data set is terminated.

User Response: If data stream errors stopped the processing of the page just before the page for which APS8241 was issued, correct the data stream errors first and resubmit the print request. The condition that caused message APS8241 to be issued may be resolved after the other errors have been corrected. If the error is not due to data stream errors, remove some of the fonts called for by the sheet or resource, and resubmit the print request.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS8251 A CHARACTER-RESIDUE CHECK WAS DETECTED DURING THE LOADING OF A DOUBLE-BYTE FONT. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: While printing with a double-byte font, the printer detected a character-residue check for the double-byte font requested. This error occurred either because the font raster data for a double-byte font was invalid, or because the printer malfunctioned while retrieving the font from compressed-pattern (CPS) storage. Sense information can be obtained from the record in SYS1.LOGREC. For an explanation of the sense bytes, refer to the printer publications for the printer that reported this error.

System Action: PSF terminates the data set at the Committed Page Counter plus one.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: If you suspect that the problem is caused by invalid double-byte font data, check to see if the compression algorithm was correctly applied to the raster pattern data from one or more Font Pattern (FNG) structured fields. The FNG structured fields are in the font character set. If you suspect the problem is caused by a malfunction of the printer, you might want to suspend the processing of all print data sets that use double-byte fonts. If the error condition persists, follow the procedures described in *PSF for*

OS/390: Diagnosis before contacting the IBM Support Center.

Operator Response: If the error occurred because the printer malfunctioned while retrieving the font from CPS storage, suspend processing for all data sets that use double-byte fonts, and notify your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS826I DATA IN A FONT RESOURCE IS INVALID: THE UNIFORM INLINE OFFSET PARAMETER VALUE OF A FNC STRUCTURED FIELD MUST BE 0 FOR A DOUBLE-BYTE CODED FONT.

Explanation: While PSF was attempting to load a font, the printer detected an error in the Font Control (FNC) structured field. The Uniform Inline Offset parameter reports an invalid value for what is identified as a double-byte font. The FNC structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set that uses the font containing the error.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS827I DATA IN A FONT RESOURCE IS INVALID: THE UNIFORM INLINE OFFSET PARAMETER VALUE OF A FNC STRUCTURED FIELD IS INVALID.

Explanation: The Uniform Inline Offset parameter in the Font Control (FNC) structured field is outside the valid range for a single-byte font. The FNC structured field is contained in the font character set.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS828I THE HORIZONTAL ADJUSTMENT VALUE FOR THE RASTER OVERLAY IS GREATER THAN THE HORIZONTAL ADJUSTMENT VALUE FOR THE PAGE IT IS INCLUDED ON.

Explanation: When a raster overlay is received by the printer, the active horizontal adjustment value is used to format the overlay for storage. If the operator adjusts a page to the left, and the page includes the stored overlay, the horizontal adjustment value associated with the overlay exceeds that for the page.

System Action: PSF causes the printer to discard the printer's buffered data and to delete all overlays, page segments, and fonts. On the first occurrence of this error, the message is printed on a separate sheet in the data set to mark the position before recovery starts. PSF recovers by retransmitting pages to the printer, starting from the last known Committed Page Printer

Counter plus 1. On the second occurrence of this error, the message is printed at the end of the message data set, and the data set is terminated at the Committed Page Printer Counter plus 1. If the error persists, ask your system operator not to attempt horizontal adjustment for this job.

System Programmer Response: No response is necessary.

Operator Response: Pages that include a raster overlay should not be adjusted to the left by the operator.

Problem Determination: Items 1, 2, 17, 27.

APS829I A PAPER JAM HAS OCCURRED WHILE ACCUMULATING SHEETS FOR A FINISHING OPERATION. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: Paper in the post processor was discarded. The printer detected and reported an asynchronous intervention-required error with an action code of X'0A' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF retransmits pages to the printer starting from the Jam Recovery Printer Counter. Pages may be duplicated during recovery. If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper from the printer and post processor. PSF assumes that pages between the Jam Recovery Printer Counter and the Stacked Printer Counter are not damaged and do not need to be reprinted. If any pages between these two printer counters do need to be reprinted, use the Job Entry Subsystem (JES) BACKSPACE command.

Problem Determination: Items 1, 8, 18.

APS830I THE ERROR SENSE BYTES 0-7 = error sense bytes 0-7, OVERLAY IDENTIFIER = overlay identifier, SEGMENT IDENTIFIER = segment identifier, COMMAND = command, OBJECT IDENTIFIER = object identifier, ELEMENT IDENTIFIER = element identifier, SENSE BYTES 18-23 = error sense bytes 18-23.

Explanation: This message formats and presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error. A message that describes the specific I/O error accompanies this message.

- *Error sense bytes 0-7* are the first 8 bytes in the sense data, reported in hexadecimal.
- *Overlay identifier* is the identifier from the Begin Overlay or Include Overlay command in which the error occurred. This information was formatted from bytes 8 and 9 of the sense data.
- *Segment identifier* is the identifier from the Begin Page or Include Page Segment command in which the error occurred. This information was formatted from bytes 10 and 11 of the sense data.
- *Command* is the printer command that was being processed at the time the error was detected. This information was formatted from bytes 12 and 13 of the sense data.
- *Object identifier* is the identifier of the object (other than segment or overlay) in which the error occurred. This information was formatted from bytes 14 and 15 of the sense data.
- *Element identifier* is the identifier of an element within the object type reported in *object identifier*. One example of an element identifier is the section number for a double-byte font. Another example is the code point corresponding to the invalid character found in a font. This information was formatted from bytes 16 and 17 of the sense data.
- *Error sense bytes 18-23* are the last 6 bytes in the sense, reported in hexadecimal.

System Action: See the accompanying messages for the system action taken.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or an error message. Notify your system programmer.

Problem Determination: Items 2, 17, 27.

APS8311 THE COMBINATION OF A CHANNEL CONTROL CHECK AND AN INTERFACE CONTROL CHECK WAS DETECTED IN THE CHANNEL STATUS WORD. THE MISSING INTERRUPT-HANDLER TIMER HAS EXPIRED. SOFTWARE RECOVERY IS IN PROGRESS.

Explanation: The I/O Supervisor sets both the channel control check bit and the interface control check bit in the channel status word to indicate that the Missing Interrupt-Handler (MIH) timer has expired. For the MIH value that pertains to your device type, refer to informational APAR II02083. section "C."

System Action: PSF continues its attempts to perform I/O to the printer until the MIH condition is cleared or is determined to be permanent. If permanent, PSF terminates with an abend.

User Response: No response is necessary.

System Programmer Response: Reset the limit for the MIH timer. If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Restart PSF. If the error persists, consult your system programmer.

Problem Determination: Items 1, 18, 27.

APS8321 THE ERROR SENSE BYTES 0-7 = error sense bytes 0-7, OVERLAY ID = overlay identifier, SEGMENT ID = segment identifier, COMMAND = command, TEXT, IMAGE OR IMAGE CELL, AND RULE POSITION ERROR COUNTS = number of text position errors, number of image position errors, AND number of rule position errors, SENSE BYTES 17-23 = error sense bytes 17-23.

Explanation: This message formats and presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error. A message that describes the specific I/O error accompanies this message.

- *Error sense bytes 0-7* are the first 8 bytes in the sense data, reported in hexadecimal.
- *Overlay identifier* is the identifier from the Begin Overlay or Include Overlay command in which the error occurred. This information was formatted from bytes 8 and 9 of the sense data.
- *Segment identifier* is the identifier from the Begin Page or Include Page Segment command in which the error occurred. This information was formatted from bytes 10 and 11 of the sense data.
- *Command* is the printer command that was being processed at the time the error was detected. This information was formatted from bytes 12 and 13 of the sense data.

- *Number of text position errors* is the number of times an attempt was made to print text characters outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. This information was transformed to decimal from byte 14 of the sense data.
- *Number of image position errors* is the number of attempts that were made to print image cells outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. Note that a data-stream image may consist of a number of image cells, and each image cell is sent to the printer as one image. This information was transformed to decimal from byte 15 of the sense data.
- *Number of rule position errors* is the number of attempts that were made to print rules outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. This information was transformed to decimal from byte 16 of the sense data.
- *Error sense bytes 17-23* are the last 7 bytes in the sense data, reported in hexadecimal.

System Action: See the accompanying messages for the system action that was taken.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Notify your system programmer.

Problem Determination: Items 2, 17, 27.

APS8331 THE ERROR SENSE BYTES 0-5 = error sense bytes 0-5, TEXT, IMAGE OR IMAGE CELL, AND RULE POSITION ERROR COUNTS = number of text position errors, number of image position errors AND number of rule position errors, SENSE BYTE 9 = sense byte 9, BUFFER OFFSET = printer buffer offset, PRINTER STATE = printer state, COMMAND = command, SENSE BYTES 14-23 = sense bytes 14-23.

Explanation: This message formats and presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error. A message that describes the specific I/O error accompanies this message.

- *Error sense bytes 0–5* are the first 6 bytes in the sense data, reported in hexadecimal.
- *Number of text position errors* is the number of attempts that were made to print text characters outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. This information was transformed to decimal from byte 6 of the sense data.
- *Number of image position errors* is the number of attempts that were made to print image cells outside of the valid printable area on this page. A value of 255 means that 255 or more such errors were detected. Note that a data-stream image may consist of a number of image cells, and each image cell is sent to the printer as one image. This information was transformed to decimal from byte 7 of the sense data.
- *Number of rule position errors* is the number of attempts that were made to print rules outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. This information was transformed to decimal from byte 8 of the sense data.
- *Sense byte 9* is the tenth byte in the sense data, reported in hexadecimal.
- *Printer buffer offset* is the approximate byte number (in decimal) in the data sent by the channel command that the printer was processing when it detected the error. This information was transformed from bytes 10 and 11 of the sense data.
- *Printer state* is the state of the printer at the time the error was detected. This information was formatted from byte 12 of the sense data.
- *Channel command* is the channel command that was being processed at the time the error was detected. This information was formatted from byte 13 of the sense data.
- *Sense bytes 14–23* are the last ten bytes in the sense data, reported in hexadecimal.

System Action: See the accompanying messages for the system action that was taken.

User Response: If the accompanying messages are not sufficient to identify the problem, contact your system programmer.

System Programmer Response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17, 27.

APS834I ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA, AND THE ADDRESSABILITY LIMIT OF THE PRINTER WAS EXCEEDED.

Explanation: An attempt was made to print outside of the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. One or more characters, rules, or images fall at least partially outside of the valid printable area.

In addition, the print position specified for one of the items exceeded the addressability limit of the printer; that is, it was considerably outside of the printable area boundary. This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: A partial page is printed with print-error markers up to this addressability error. The print-error markers are printed at the perimeter of the valid printable area, where attempts were made to cross the boundary. Characters, rules, and images that were not defined completely within the valid printable area are not printed. PSF continues processing the current data set with the page following the page containing the error.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, using a page segment that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with imbedded structured fields, check the PTX structured field for positioning outside of the page.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be

initialized or cannot print a separator page or error messages. Notify your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS8351 ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA, AND SOME PRINT-ERROR MARKERS WERE NOT PRINTED BECAUSE OF THE COMPLEXITY OF THE PAGE.

Explanation: An attempt was made to print outside of the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. One or more characters, rules, or images fall at least partially outside of the valid printable area.

In addition, the complexity of the page prevented the printing of all the print-error markers that would otherwise be presented to show where attempts were made to print outside the valid printable area. Such a complex page is handled by using an optional accumulator when available, but this message is issued when the accumulator feature is not installed in the printer.

System Action: The entire page is printed. Some print-error markers may be printed at the perimeter of the valid printable area, where attempts were made to cross the boundary. One or more print-error markers were not printed because of the lack of printer storage to handle the complexity of the page when markers are included. Characters, rules, and images that were not defined completely within the valid printable area are not printed. The processing of the data set continues.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, using a page segment that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with imbedded structured fields, check the PTX structured field for positioning outside of the page.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the

print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS8361 DUE TO AN I/O ERROR ON THIS DATA SET, A DUPLICATE PAGE MAY BE PRINTED.

Explanation: The printer reported an error in the data stream to PSF while the printer was processing this data set. The data stream error is reported in a previous PSF error message in the message data set.

System Action: This message is printed both on a separate sheet in the data set to mark the position at which the recovery from this error was started and in the message data set at the end of the print data set. Pages may be duplicated during the recovery. PSF continues processing the current data set with the page after the page containing the error.

User Response: The printed output may be acceptable. If pages are duplicated, resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures in *PSF for OS/390: Diagnosis* before consulting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 18.

APS8371 AN INTERVENTION-REQUIRED CONDITION AT THE PRINTER MAY HAVE CAUSED PARTIAL, MISSING, OR DUPLICATE PAGES.

Explanation: An intervention-required condition (paper jam, out of paper, or printer not ready for 10 minutes) occurred while the data set was being printed on a 4224 printer or a 4234 printer. As a result, the output may contain partial, missing, or duplicate pages

System Action: PSF prints this message at the end of the print data set. The processing of the print data set continues.

User Response: The output may be acceptable. If any pages are duplicated, resubmit the print request. If the error condition persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for*

OS/390: *Diagnosis* before consulting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 18.

APS838I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE NUMBER OF BITS SPECIFIED FOR A COLOR COMPONENT IN A X'4E' TRIPLET, SET EXTENDED COLOR CONTROL SEQUENCE, OR SET PROCESS COLOR DRAWING ORDER IS INVALID OR UNSUPPORTED.

Explanation: An invalid or unsupported value was specified in the Colsize1, Colsize2, Colsize3, or Colsize4 fields of a X'4E' triplet, Set Extended Color control sequence, or set process color drawing order for this printer.

The X'4E' triplet might have occurred on the following structured fields:

- A Page Descriptor (PGD).
- An Object Area Descriptor (OBD).

The PGD is contained in an Active Environment Group (AEG) for a page or an overlay, and the OBD is contained in an Object Environment Group (OEG) for a graphics, image, or bar code object.

The Set Extended Color control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be imbedded in a data set containing line data.

The Set Process Color drawing order is located in a Graphics Data (GAD) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or, it might be embedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the object is in a resource, PSF stops processing the data set that uses the resource in error.

User Response: If the structured fields are invalid and you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program

to create the structured fields for the resource or print data set containing the image, contact your system programmer.

If the color value is unsupported by this printer, resubmit the print request to a printer that does support this color value.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS839I A PARAMETER VALUE IN A FORMDEF RESOURCE IS INVALID OR UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INVALID OR UNSUPPORTED FINISHING OPERATION AXIS OFFSET VALUE.

Explanation: The axis offset field (bytes 7–8) in a finishing operation triplet (X'85') contains an invalid or unsupported value.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS840I THE MAXIMUM NUMBER OF PAGE SEGMENTS THE PRINTER WILL ACCEPT MAY HAVE BEEN EXCEEDED BY A SIMPLEX PAGE OR BY THE FRONT AND BACK OF A DUPLEX SHEET.

Explanation: While loading page segments in the printer, the printer detected and reported that a page segment number was out of the valid range. This error may be caused by a simplex page or by the front and back of a duplex sheet that contains more page segments than the printer can accept.

System Action: PSF recovers from the error by deleting any page segments that are not needed for the current sheet at the Received Page Counter, and then resending the page. If PSF receives a second occurrence of this error, PSF issues this message and terminates. If repositioning is not supported in the current environment, the data set is terminated.

User Response: If data stream errors stopped the processing of the page preceding the page for which APS840I was issued, correct the data stream errors first, and resubmit the print request. The condition that caused message APS840I to be issued may be resolved after the other errors have been corrected. If the error is not due to data stream errors, delete some of the page segments on the simplex page or duplex sheet at the Received Page Counter plus one. If the simplex page or duplex sheet at the Received Page Counter plus one does not exceed the number of page segments that the printer can accept, a PSF or printer logic error may have occurred.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS841I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE RELATIVE METRIC MULTIPLYING FACTOR IN THE LOAD FONT CONTROL IS INVALID OR UNSUPPORTED.

Explanation: The font contains invalid data. The character set FNC structured field has an invalid vertical point size or host-font resolution.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for OS/390: Customization* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Consult your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS842I THE CANCEL BUTTON ON THE PRINTER CONTROL PANEL WAS PRESSED WHILE THE PRINTER WAS PROCESSING A DATA SET.

Explanation: The printer detected and reported to PSF that the cancel button on the printer control panel had been pressed while the printer was processing a data set. For more information about this condition,

refer to the printer publications for the printer that reported this error.

System Action: If the Committed Copy Printer Counter is greater than zero, PSF cancels the data set at the Committed Page Counter plus 1; otherwise PSF cancels the data set at the Committed Page Counter.

User Response: If desired, resubmit the data set that was canceled. If the error persists, consult the operator to see why the cancel button is being pressed.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS843I THE PAGE BEING PROCESSED WAS TOO COMPLEX TO PRINT. ONE OR MORE OBJECTS MAY HAVE TO BE REMOVED FROM THE PAGE IN ORDER TO PRINT IT.

Explanation: An equipment check during printing indicated a print overrun. The page at the Committed Page Counter plus one was too complex to print. The printer detected and reported an asynchronous error with an action code of X'09' (sense byte 2). This error occurs either because too many items (for example, images) were placed on a page or because too many overstrikes were requested. Sense information can be obtained from the record in SYS1.LOGREC. For an explanation of the sense bytes, refer to the printer publications for the printer that reported this error.

System Action: When the print error was detected, the printer was attempting to print a page that was too complex. PSF stops data set at the Committed Page Counter plus one.

User Response: Remove some of the resources on the page (for example, overlays, images, or page segments), or remove some of the data from the page, and resubmit the print request. Refer to Performance Considerations in the printer publications for the specific printer that reported the error.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS844I A HARDWARE-RELATED PRINT ERROR OCCURRED DURING THE PRINTING OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: A temporary hardware-related print error (for example, an image-generator error) occurred in the printer, and caused the printer to require recovery. The printer detected and reported an asynchronous error

with an action code of X'16' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF retransmits pages to the printer, starting from the Committed Page Counter plus 1. PSF may print this message on a separate sheet in the data set to mark the position at which the recovery from this error was started. Pages may be duplicated during the recovery.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error persists, consult your system programmer.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: If the error condition persists, consult your system programmer.

Problem Determination: Items 1, 8, 18.

APS845I A PERMANENT HARDWARE ERROR WAS DETECTED BY THE PRINTER.

Explanation: A permanent hardware error was reported by the printer to indicate that the printer cannot be used. The printer detected and reported an asynchronous error with an action code of X'17' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System Action: PSF issues this message and terminates with an abend.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: PSF can be restarted, if you use an operational printer.

Problem Determination: Items 1, 8, 18, 27.

APS846I AN INTERFACE CONTROL CHECK OR MIH TIMER EXPIRATION OCCURRED DURING THE PRINTING OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: While communicating with the channel, PSF detected an interface control check or a missing interrupt-handler expiration. After the interface control check or missing interrupt-handler timer expiration, PSF issued additional I/O commands. The interface control check or missing interrupt-handler condition was

reported to PSF in the Channel Status Word Channel Status byte.

System Action: PSF resynchronizes with the printer and retransmits pages to the printer, starting from the committed page counter. If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error persists, consult your system programmer.

System Programmer Response: For more information about this error, refer to the Principles of Operation publication for your operating system. If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 9, 17.

APS8471 THE PRINTER SETUP WAS CHANGED WHILE THE PRINTER WAS PROCESSING A DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The printer characteristics were changed in the printer, and the printer discarded its buffered pages. The printer reports an action code X'1D' to instruct PSF to obtain the new printer characteristics and redrive buffered pages. For more information about this condition, refer to the printer publications for the printer that reported this error.

System Action: PSF obtains the new printer characteristics, and then retransmit pages to the printer, starting from the Committed Page Printer Counter plus one. PSF may print this message on a separate sheet in the data set to mark the position at which the recovery from this error was started. Pages may be duplicated during the recovery.

If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error persists, consult your system programmer.

System Programmer Response: If the printer characteristics were not changed at the printer and the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 18.

APS8481 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE SET TEXT COLOR TEXT CONTROL SEQUENCE CONTAINS AN INVALID OR UNSUPPORTED TEXT COLOR OR PRECISION.

Explanation: The Set Text Color (STC) control sequence contains an invalid or unsupported value for either the Text Color parameter or the Precision parameter. The control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be imbedded in a data set containing line data.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTX structured field. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference*. If the PTX has no errors, the error may be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS849I ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA, AND THE PRINT POSITION COULD NOT BE REPRESENTED IN THE PRINTER.

Explanation: An attempt was made to print outside of the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. One or more characters, rules, or images fall at least partially outside of the valid printable area. In addition, the print position specified for one of the items exceeds the addressable-memory limit of the printer. During the computation of the current print position, an overflow or underflow of the -32768 to +32768 range was detected.

System Action: A partial page is printed with print-error markers, printed at the perimeter of the valid printable area where attempts were made to cross the boundary. PSF continues processing the current data set with the page after the page containing the error.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print-positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page. If you were printing a MO:DCA print data set, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, and you were using a page segment that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with imbedded structured fields, check the PTX structured field for positioning outside of the page.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS850I A CONDITION OCCURRED IN THE PRINTER OR A FUNCTION WAS SELECTED ON THE PRINTER CONTROL PANEL WHILE THE PRINTER WAS PROCESSING A DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: An error condition in the printer, or a function that was selected on the printer control panel, caused the printer to discard its buffered pages. The printer reports an action code X'1A' to instruct PSF to redrive buffered pages. For more information about this condition, refer to the printer publications for the printer that reported this error.

System Action: PSF retransmits pages to the printer, starting from the Committed Page Counter plus 1. Pages may be duplicated during the recovery.

If repositioning is not supported in the current environment, the data set is terminated.

User Response: The printed output may be acceptable. If any pages were duplicated, you may want to resubmit the print request. If the error persists, consult your system programmer.

System Programmer Response: If a function was not selected at the printer, and the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 18.

APS851I THE PRINTER REPORTED A DATA STREAM ERROR THAT PSF DOES NOT RECOGNIZE. THE DATA SET IS TERMINATED.

Explanation: The printer reported an action code X'01' data stream I/O error that PSF does not recognize. This message is accompanied by a message that presents the printer sense bytes.

System Action: PSF stops processing and printing the data set.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS8521 AN UNEXPECTED VALUE WAS DETECTED IN THE CHANNEL STATUS WORD (CSW): THE CSW UNIT STATUS BYTE = X'unit status byte' AND THE CSW CHANNEL STATUS BYTE = X'channel status byte'.

Explanation: The PSF I/O Error Manager subcomponent detected an unexpected condition in the Channel Status and Unit Status bytes of the Channel Status Word (CSW). I/O Error Manager expects the device-dependent Error Recovery Procedures (ERPs) and the PSF Device Manager subcomponent to handle certain conditions represented by CSW bit settings, without control being passed to I/O Error Manager.

System Action: PSF issues this message and terminates with an abend.

User Response: No response is necessary.

System Programmer Response: For more information about the Channel Status Word and this CSW bit setting, refer to the Principles of Operation publication for your operating system. If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Restart PSF. If the error persists, notify your system programmer.

Problem Determination: Items 1, 8, 18, 27.

APS8531 mechanism name IS DISABLED. THE PRINTER REPORTED AN ATTEMPT TO USE THE DISABLED MECHANISM.

Explanation: PSF attempted to use a mechanism in the printer that has been disabled. Because PSF was initialized for the printer, the status of the mechanism listed in the message text, has changed from 'installed and available' to 'installed but not available' (disabled).

System Action: PSF issues this message and terminates with an abend.

User Response: No response is necessary.

System Programmer Response: If the mechanism indicated in the message is not disabled in the printer, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: If the disabled mechanism in the printer is not required for the print data set being processed, restart PSF.

Problem Determination: Items 1, 17, 27.

APS8541 THE PRINTER DID NOT REPORT ALL DATA STREAM ERRORS DUE TO THE EXCESSIVE NUMBER OF DATA STREAM ERRORS ON THE PAGE IN ERROR.

Explanation: The printer detected so many data stream errors for the current page at the Received Page Printer Counter plus 1, that the printer could not report all of them to PSF. The printer reported the data stream errors that it was able to store in its error queue. This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System Action: PSF prints error messages for the errors that the printer reported, and bases its error recovery on the error with the highest priority.

User Response: Correct the errors that were reported. Resubmit the corrected print request to receive the additional errors that were not reported because of this constraint on printer storage.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 8, 18, 27.

APS8551 TEXT EXTENDS BEYOND THE VALID PRINTABLE AREA.

Explanation: The printer detected and reported that one or more attempts were made to print text outside of the valid printable area. This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error. The error was caused by one or more of the following:

- The positioning of characters on the line placed the first character outside of the physical page.
- The characters are placed incorrectly.
- The combination of the placement of the baseline and the font used to print the data causes the first pel for the graphic character raster pattern to be placed outside the valid printable area.
- The selected font causes the character to be placed outside of the page boundary.
- A character pattern was placed outside the valid printable area because the characters in the font

have “on pels” preceding the character reference point.

- A positioning text-control sequence (Absolute Move Inline [AMI], Absolute Move Baseline [AMB], Relative Move Inline [RMI], or Relative Move Baseline [RMB]) placed the first pel for the graphic character raster pattern outside of the physical page. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data.
- The wrong paper size was mounted.
- An incorrect output class was specified.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. The page in error is printed with print-error markers to indicate the position and direction of the positioning errors. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATAACK keyword of the OUTPUT JCL statement. If you want to correct the source of the problem, and if you were printing MO:DCA data, check the current print position relative to the edges of the physical page. Place the logical page so that it does not extend into the unprintable area of the physical page. Use a different font, if necessary, so that the print position is inside the printable area. If you created the structured fields for an overlay or MO:DCA data, check the PTX structured field for positioning outside of the page.

If you were printing a data set containing line data, you could change the font selected from the page definition or the CHARS keyword on the JCL to a smaller font. If you created the structured fields for the page definition, check the print-positioning values in the Line Descriptor (LND) structured field and correlate them with the edges of the physical page.

If you were printing a data set containing line data with imbedded structured fields, check the PTX structured field for positioning outside of the page.

System Programmer Response: No response is necessary.

Operator Response: Ensure that the correct paper size is mounted.

Problem Determination: Items 1, 2, 17, 27.

APS8561 ONE OR MORE RULES EXTEND BEYOND THE VALID PRINTABLE AREA.

Explanation: The printer detected and reported one or more attempts to print one or more rules outside of the valid printable area. This message is accompanied by a message that presents the printer sense bytes. The inline or baseline dimension of the Width or Length parameter, in either the Draw Inline Rule (DIR) or the Draw Baseline Rule (DBR) text-control sequence, caused the rule to exceed the right, bottom, left, or top of the logical page. The direction in which the rule was off the page is relative to the paper as it moves through the printer, rather than to the logical page; for example, the top of the sheet is the perforated edge that leads through the printer. The error was caused by one or more of the following:

- The rule width or length specified in either the Draw Inline Rule (DIR) or the Draw Baseline Rule (DBR) text-control sequence caused the print position to be outside of the physical page.
- The Horizontal Page Size and Vertical Page Size subparameters in the Page Descriptor (PGD) structured field specified values that caused the width to extend off the logical page.
- The wrong paper size is mounted.
- The output class is incorrect.

The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field may be contained in a MO:DCA document, an overlay, or a page segment; or it may be imbedded in a data set containing line data. The PGD structured field is in MO:DCA data, an overlay, or a page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. The page in error is printed with print-error markers to indicate the position and direction of the positioning errors. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATAACK keyword on the OUTPUT JCL statement. If you want to correct the source of the problem, you could change the size of the logical page. If you want the logical page size to remain the same, and if you were printing a page segment, an overlay, or MO:DCA data, and you created the structured fields for the object containing the error, check the text-control sequence in the PTX structured field for positioning outside of the page.

If you were printing a data set containing line data, and you were using a page segment that you created, check

the print-positioning values in the Line Descriptor (LND) structured field and correlate them with the edge of the page that was exceeded (logical or physical).

If you were printing a data set containing line data with imbedded structured fields, check the PTX structured field for positioning outside of the page.

System Programmer Response: No response is necessary.

Operator Response: Ensure that the correct paper size is mounted.

Problem Determination: Items 1, 2, 17, 27.

APS8571 ONE OR MORE IMAGES OR IMAGE CELLS EXTENDS BEYOND THE VALID PRINTABLE AREA.

Explanation: The printer detected and reported an image extending outside of the valid printable area. This message is accompanied by a message that presents the printer sense bytes. The position or direction in which the image was off the page is relative to the paper as it moves through the printer, rather than to the logical page; for example, the top of the sheet is the perforated edge that leads through the printer. The error was caused by one or more of the following:

- The horizontal or vertical coordinates of the image were outside of the logical page size specified in the Page Size parameter in the Page Descriptor (PGD) structured field. The PGD structured field is in MO:DCA data, an overlay, or a page definition.
- The Image Size parameter in the Image Input Descriptor (IID) structured field, when added either to the Horizontal Coordinate or to the Vertical Coordinate subparameter of the Image Output Control (IOC) structured field, placed the image outside of the logical page.
- Either the X-position or the Y-position subparameter of the Image Cell Position (ICP) structured field placed the image outside of the logical-page size.
- Within line data, the image can be placed relative to the current print position. The font used to print the data, therefore, determined the start of the image and caused the image to be outside of the logical page.
- The font used to print the data caused the image to be outside of the physical page.
- The wrong paper size is mounted.
- The output class is incorrect.

The image block or image cell may be contained in an overlay, a page segment, or a MO:DCA document. It may also be imbedded in a data set containing line data, using a Begin Image (BIM) structured field.

System Action: The printer you were using may attempt to print the page in error. The entire page may

not be printed. The page in error is printed with print-error markers to indicate the position and direction of the positioning errors. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATAKEY keyword on the OUTPUT JCL statement. If you want to correct the source of the problem, and if the image was positioned relative to the print position, you could use a different font so that the image origin falls inside the printable area. You could also change the size of the logical page. If you want the font and the logical page size to remain as defined, and you created the structured fields for the image, coordinate the IOC, ICP, or IID structured fields with the logical page size.

System Programmer Response: No response is necessary.

Operator Response: Ensure that the correct paper size is mounted.

Problem Determination: Items 1, 2, 17, 27.

APS8581 SYSTEM ACTION TAKEN: PSF TERMINATED THE PAGE IN ERROR AND CONTINUE TO PROCESS THE DATA SET STARTING WITH THE NEXT PAGE.

Explanation: This message indicates the recovery that PSF performs when the printer reports an I/O error to PSF. This message accompanies a message that describes the I/O error and a message that displays the sense bytes reported from the printer.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS859I SYSTEM ACTION TAKEN: PSF TERMINATED THE DATA SET THAT CONTAINED THE PAGE IN ERROR. PSF WILL PROCESS THE NEXT DATA SET.

Explanation: This message indicates the recovery that PSF performs when the printer reports an I/O error to PSF. This message accompanies a message that describes the I/O error and a message that displays the sense bytes reported from the printer.

System Action: The printer you were using may attempt to print the page containing the error, or may print only part of the page. If the page containing the error contains any positioning errors, print-error markers may be included on the printed page. PSF stops processing and printing the data set that contains this error.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS860I THE SPECIFIED INPUT BIN CANNOT BE USED WITH THE SPECIFIED OUTPUT BIN.

Explanation: The specified media source cannot be used with the specified media destination. One example of this type of error is using inserts that are located on a post processor input bin and routing the data set to an output bin located back on the printer.

System Action: PSF will release the current data set back to JES and will request that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: If you specified an output bin with the OUTBIN keyword and it is the wrong output bin, change the bin and resubmit the print job. Your data set may require a different printer configuration. For more information about your printer configuration, refer to the printer publications for the printer that reported this error.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS861I A CHARACTER IN THE PRINT DATA IS DESCRIBED AS INVALID IN THE CODE PAGE ASSOCIATED WITH THE FONT.

Explanation: The Flag Byte parameter in either the Code Page Control (CPC) or a repeating group of the Code Page Index (CPI) structured field had the undefined or unprintable bit set for a code point in the text data that was to be printed. The CPC and CPI structured fields are in the code page. This error occurred because DATAACK=UNBLOCK or BLKPOS was specified in the OUTPUT JCL statement or the PRINTDEV JCL statement in the PSF initialization procedure and one of the following conditions existed:

- The code page did not include the code point, and the default character, specified by the CPC, had the invalid flag on.
- The character assigned to this code point did not exist in the character set, and the default character, specified by the CPC, had the invalid flag on.
- The code point, specified by the CPI structured field, had the invalid flag on.

This page may contain other data stream errors that PSF has not reported but that the printer has highlighted.

System Action: The printer you were using may attempt to print the page in error, or may print only part of the page. If the page containing the error contains any position errors, print-error markers are included on the printed page. PSF continues processing the current data set with the page following the page containing the error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: To eliminate this error message from your output, you can resubmit the print request, specifying BLOCK or BLKCHAR for the DATAACK keyword on the JCL OUTPUT statement. For more information on how to code this keyword, refer to *PSF for OS/390: User's Guide*.

If you want to correct the source of the problem, you will first need to identify which character in which font contains the error.

If the printer returned the information about the invalid character, check the following:

- Immediately following this message (APS861I) is a formatted sense message (APS830I). The *Element Identifier* field in this message contains the code point in which the error occurs, or zeroes if the printer did not return the information.
- To determine which code page and character set pair have the invalid code point, check messages APS701I. The APS701I messages are environmental messages for this page. If the printer returned the information, one of the APS701I

messages will provide the *Active Code Page Name* and the *Active Character Set Name*.

Ensure that the code point in the print data is correct. If the code point is incorrect, and you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information on the correct format of the referenced structured field. If you used a program to create the structured fields for the code page, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages of the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS862I ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA.

Explanation: An attempt was made to print outside of the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. Characters, rules, or image cells fall at least partially outside of the valid printable area. Note that a data stream image may consist of a number of image cells, and each cell is sent to the printer as one image. Other data stream errors may exist on this page that PSF has not reported but that the printer has highlighted.

System Action: The printer you were using may attempt to print the page in error, or may print only part of the page. If the page containing the error contains any position errors, print-error markers are included on the printed page. PSF continues processing the current data set with the page following the page containing the error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATAKEY keyword on the OUTPUT JCL statement. If you want to correct the source of the problem, you could change the size of the logical page.

If you want the logical page size to remain the same and if you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print-positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, and you were using a page definition that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with imbedded structured fields, check the PTX structured field for positioning outside of the page.

System Programmer Response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS863I A PARAMETER VALUE IN A FORMDEF RESOURCE IS INVALID OR UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INVALID OR UNSUPPORTED FINISHING OPERATION TYPE FOR THIS FINISHER.

Explanation: The operation type field (byte 2) in a finishing operation triplet (X'85') contains an invalid or unsupported value for this finisher.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function*

Presentation: Programming Guide and Line Data Reference for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS864I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A PARAMETER VALUE IN A TEMPORARY BASELINE MOVE TEXT CONTROL IN A PTX STRUCTURED FIELD IS INVALID.

Explanation: The Temporary Baseline Move (TBM) text control has an invalid value in the direction parameter, the precision parameter, or both. The text-control sequence is in a Presentation Text Data (PTX) structured field. The PTX structured field may be in MO:DCA data, an overlay, or a page segment; or it may be imbedded in a data set containing line data.

System Action: The printer you were using attempts to print the page containing the error, or may print only part of the page. If the page containing the error contains any position errors, print-error markers are included on the printed page. PSF continues processing the current data set with the page after the page containing the error, unless the printer reports another error that requires a more severe recovery action.

User Response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTX structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error may be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields, consult your system programmer.

If you were printing a data set containing line data with imbedded structured fields, correct the text-control

sequence in the PTX structured field. If the PTX has no errors, the error may be a PSF or printer logic error.

If you were printing a data set containing line data without imbedded structured fields, the error may be a PSF or printer logic error.

System Programmer Response: If an IBM licensed program was used to create the print file or resource with the error, verify that the input to that program was valid. If the input was valid, consult *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS866I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A PTD-2 INLINE DIRECTION IS INVALID.

Explanation: The inline direction value specified as the initial default for the Set Text Orientation (STO) text control in the Self Identifying Parameters field of the Presentation Text Descriptor Format 2 (PTD-2) structured field is invalid or unsupported. The PTD-2 structured field may be in an overlay, MO:DCA data, or a page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTD-2 structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTD-2 has no errors, the error may be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a program to create its structured fields, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use

the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS8671 DATA IN A FORMDEF RESOURCE IS INVALID: THE PAGE ORIGIN VALUE IN THE PGP STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Page Origin parameter in the Page Position (PGP) structured field specifies, in pels, the displacement of the page from the origin of the physical page. This parameter has two subparameters, the X-origin and the Y-origin, and one of these has an invalid value. The PGP structured field is in the form definition.

System Action: PSF stops processing and printing the data set.

User Response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF or printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17.

APS8681 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A PTD-2 BASELINE DIRECTION IS INVALID.

Explanation: The baseline direction value specified as the initial default for the Set Text Orientation (STO) text control in the Self Identifying Parameters field of the Presentation Text Descriptor Format 2 (PTD-2) structured field is invalid or unsupported. The PTD-2

structured field may be in an overlay, MO:DCA data, or a page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTD-2 structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTD-2 has no errors, the error may be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a program to create its structured fields, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS8691 DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A PTD-2 INLINE COORDINATE IS INVALID.

Explanation: The inline coordinate position value specified as the initial default for the Absolute Move inline (AMI) text control in the Self Identifying Parameters field of the Presentation Text Descriptor Format 2 (PTD-2) structured field is invalid or unsupported. The PTD-2 structured field may be in an overlay, MO:DCA data, or a page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTD-2 structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PDT-2 has no errors, the error may be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a program to create its structured fields, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS870I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: A PTD-2 BASELINE COORDINATE IS INVALID.

Explanation: The baseline coordinate position value specified as the initial default for the Absolute Move Baseline (AMB) text control in the Self Identifying Parameters field of the Presentation Text Descriptor Format 2 (PTD-2) structured field is invalid or unsupported. The PTD-2 structured field may be in an overlay, MO:DCA data, or a page definition.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTD-2 structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PDT-2 has no errors, the error may be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a

program to create its structured fields, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS871I A FORMDEF RESOURCE REQUESTED N_UP, BUT N_UP IS NOT SUPPORTED FOR ENVELOPES.

Explanation: The printer does not support N_UP printing on envelopes.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: Change the form definition to one that does not request N_UP on the next submission, or submit the job to a printer that does not have envelopes in the bin requested by the form definition.

System Programmer Response: Fix the form definition or replace it with one that does not request N_UP printing.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS872I THE SPECIFIED INPUT BIN CANNOT BE USED WITH THE SPECIFIED OUTPUT BIN.

Explanation: The paper size in the input bin selected is not compatible with the output bin selected for the data set. The input bin is either the printer default input bin, or the bin specified in the form definition for the data set. The output bin is either the printer default output bin, or the bin specified on the OUTBIN keyword on the JCL OUTPUT statement for the data set.

System Action: PSF will release the current data set back to JES and will request that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: If you specified an output bin with the OUTBIN keyword, and it is the wrong output bin, change the bin and resubmit the print job.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS873I DATA IN A FONT RESOURCE IS INVALID: TOO MUCH OR TOO LITTLE CODE PAGE DATA WAS RECEIVED.

Explanation: The amount of code page data in the Code Page Index (CPI) structured field does not match the value in bytes 34-37 in the Code Page Descriptor (CPD) structured field (if present), or is inconsistent with the CPI repeating group length (specified in byte 9 of the Code Page Control structured field).

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS874I OUTPUT BIN *bin number* WAS REQUESTED BUT CANNOT BE USED WITH INPUT BIN *bin number*.

Explanation: The paper size in the input bin selected is not compatible with the output bin selected for the data set. The input bin is either the printer default input bin, or the bin specified in the form definition for the data set. The output bin is either the printer default

output bin, or the bin specified on the OUTBIN keyword on the JCL OUTPUT statement for the data set.

System Action: PSF will release the current data set back to JES and will request that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: If you specified an output bin with the OUTBIN keyword, and it is the wrong output bin, change the bin and resubmit the print job. If the bin values are correct, the data set must have been sent to a printer with a bin configuration that was not compatible with the bins requested for the data set. Consult your operator to determine which printer the data set should be rerouted to.

System Programmer Response: No response is necessary.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer with consistent bins. For a JES command to release the data set for printing, refer to the publication containing JES commands for your operating system.

Problem Determination: Items 1, 2, 17, 27.

APS875I DATA IN A FORMDEF RESOURCE IS INCOMPATIBLE: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES A FINISHING OPERATION THAT IS INCOMPATIBLE WITH THE SELECTED MEDIA OR THE SELECTED MEDIA DESTINATION.

Explanation: A finishing operation specified in a finishing operation triplet (X'85') is incompatible with the selected physical media or with the media destination. Some printers don't support all sizes of media or mixed-size media when finishing. Also, some printers restrict the possible media destination of finished data sets to a subset of all media destinations available.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- If you have specified OUTBIN on your JCL OUTPUT statement, make sure it selects a media destination that supports finished output.
- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS876I DATA IN A FONT RESOURCE IS INVALID: THE PATTERN TECHNOLOGY IDENTIFIER IN A FONT CHARACTER SET IS INVALID OR UNSUPPORTED.

Explanation: The pattern technology identifier specified in byte 1 in the Font Control (FNC) structured field is invalid or unsupported.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the

font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS877I DATA IN A FONT RESOURCE IS INVALID: THE NUMBER OF BYTES IN THE FNG OR FNN STRUCTURED FIELD IS INVALID OR UNSUPPORTED.

Explanation: The font data length specified in bytes 28-31 in the Font Control (FNC) structured field, or the font name map data count specified in bytes 36-39 in the FNC structured field, was invalid or unsupported.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS878I DATA IN A FONT RESOURCE IS INVALID: THE FNN DATA COUNT IN THE FNC STRUCTURED FIELD IS INVALID OR UNSUPPORTED.

Explanation: The Font Name Map (FNN) data count specified in bytes 36-39 of the Font Control (FNC) structured field is invalid or unsupported.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS879I DATA IN A FONT RESOURCE IS INVALID: THE ENCODING PARAMETERS IN THE FNN STRUCTURED FIELD ARE INVALID OR UNSUPPORTED.

Explanation: The value specified in byte 0 or byte 1 in the Font Name Map (FNN) structured field is invalid or unsupported.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS880I DATA IN A FONT RESOURCE IS INVALID: AN INVALID TECHNOLOGY-SPECIFIC ID OFFSET WAS SPECIFIED IN AN FNN STRUCTURED FIELD.

Explanation: An invalid technology-specific ID offset value was specified in the second section of an FNN structured field.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program

was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS881I DATA IN A FONT RESOURCE IS INVALID: AN INVALID TECHNOLOGY-SPECIFIC ID LENGTH WAS SPECIFIED IN AN FNN STRUCTURED FIELD.

Explanation: An invalid technology-specific ID length value was specified in the third section of an FNN structured field.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS882I DATA IN A FONT RESOURCE IS INVALID: AN INVALID TECHNOLOGY-SPECIFIC OBJECT LENGTH WAS SPECIFIED IN THE FNG STRUCTURED FIELD.

Explanation: The technology-specific object length specified in bytes 0-3 in the Font Patterns (FNG) structured field is invalid.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS883I DATA IN A FONT RESOURCE IS INVALID: THE CHECKSUM VALUE SPECIFIED IN THE FNG STRUCTURED FIELD DOES NOT MATCH THE CHECKSUM VALUE CALCULATED BY THE PRINTER.

Explanation: The checksum specified in bytes 4-7 of the Font Patterns (FNG) structured field does not match the checksum value calculated by the printer.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS884I DATA IN A FONT RESOURCE IS INVALID: AN INVALID TECHNOLOGY-SPECIFIC OBJECT NAME LENGTH WAS SPECIFIED IN THE FNG STRUCTURED FIELD.

Explanation: The value specified for the technology-specific object name length in bytes 8-9 of the Font Patterns (FNG) structured field is invalid.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS885I PARAMETERS IN A FORMDEF RESOURCE ARE INVALID OR UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INVALID OR UNSUPPORTED NUMBER OF FINISHING POSITIONS.

Explanation: In a finishing operation triplet (X'85'), either the number of position values specified does not match the count (byte 6), or the number of supported positions has been exceeded.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information

provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS886I A PARAMETER VALUE IN A FORMDEF RESOURCE IS INVALID OR UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INVALID OR UNSUPPORTED FINISHING OPERATION POSITION VALUE.

Explanation: A finishing operation position field in a finishing operation triplet (X'85') contains an invalid or unsupported value.

Finishing operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System Action: PSF continues processing the data set. The finishing operation is not applied or is incompletely applied.

User Response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 13, 15c, 17, 19.

APS887I DATA IN A FONT RESOURCE IS INVALID: THE CHARACTER-ID ENCODING PARAMETER FOR A FONT CHARACTER SET EXTENSION DOES NOT MATCH THE CHARACTER-ID ENCODING PARAMETER FOR THE PARENT DOUBLE-BYTE OUTLINE FONT.

Explanation: Either the IBM character-ID format value or the technology-specific character-ID map of a font character set extension does not match the equivalent value in the parent font character set.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS888I DATA IN A FONT RESOURCE IS INVALID: ONE OR MORE GCGIDS IN AN FNN STRUCTURED FIELD IS OUT OF ORDER.

Explanation: Graphic Character Global Identifiers (GCGIDs) in the second section of a Font Name Map (FNN) structured field are not in ascending-EBCDIC order.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS889I DATA IN A FONT RESOURCE IS INVALID: ONE OR MORE OF THE TECHNOLOGY-SPECIFIC OBJECTS IN AN FNC STRUCTURED FIELD CONTAINS INVALID DATA.

Explanation: The technology specific object provided in a Font Patterns (FNG) structured field contains invalid data. The character set is unusable.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS890I DATA IN A FONT RESOURCE IS INVALID: THE SETTING OF THE MICR BIT IN THE FNC STRUCTURED FIELD IS INCONSISTENT WITH THE BASE RESIDENT OUTLINE FONT.

Explanation: Bit 1 in byte 3 of the Font Control (FNC) structured field indicates whether the font is intended for Magnetic Ink Character Recognition (MICR) printing. The setting of this bit is inconsistent with the intended-for-MICR setting of the base resident outline font.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the

source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS8911 DATA IN A FONT RESOURCE IS INVALID: THE ENCODING SCHEME IN A CODE PAGE IS INVALID OR UNSUPPORTED.

Explanation: The encoding scheme specified in bytes 42-43 in the Code Page Descriptor (CPD) structured field is invalid or unsupported.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS8921 DATA IN A FONT RESOURCE IS INVALID: THE AMOUNT OF CODE PAGE DATA SPECIFIED IN A CPD, CPI, OR CPC STRUCTURED FIELD IS INVALID OR UNSUPPORTED.

Explanation: The amount of code page data in a Code Page Index (CPI) structured field is invalid or unsupported; or the value specified in bytes 34-37 in a

Code Page Descriptor (CPD) structured field is invalid or unsupported; or the CPI repeating group length specified in byte 9 of the CPC structured field is invalid or unsupported.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS8931 DATA IN A FONT RESOURCE IS INVALID: THE CODE POINTS SPECIFIED IN A CPI STRUCTURED FIELD ARE OUT OF ORDER.

Explanation: Code points in a double byte code page should be specified in ascending order in the Code Page Index structured field, but were not.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User Response: If you created the structured fields for the double-byte code page, correct the error and resubmit the print request. For more information about the structured field, refer to *Font Object Content*

Architecture Reference. If the structured field has no error, or if the code page is not a double-byte code page, the error may be a PSF logic error. If you used a program to create the structured fields for the code page, consult your system programmer.

If the font is a printer-resident font, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the code page containing the error, verify that the input to that program was valid. If the input was valid, or if the code page is not a double-byte code page, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS894I DATA IN AN INPUT RECORD OR RESOURCE IS INVALID: THE CHARACTER INCREMENT FOR THE OVERSTRIKE CHARACTER IS INVALID.

Explanation: The character increment for the overstrike character specified in bytes 5-6 in a PTOCA Overstrike Control Sequence (OVS) must be greater than zero and equal to or greater than the character box for the font, but was not. The character increment for the character is specified in bytes 8-9 in the Font Index (FNI) structured field. The uniform box size for the font is specified in bytes 10-13 in the Font Control (FNC) structured field. Either the overstrike character specified in the OVS is not an appropriate overstrike character set, or its character increment is inconsistent with the character box size for the font.

System Action: The printer you were using may attempt to print the page in error. The entire page may not be printed. If the page in error contains any positioning errors, then print-error markers may be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User Response: If you created the structured fields for the font or the data set containing the OVS structured field, correct the error and resubmit the print request. For more information on the fields, refer to *Font Object Content Architecture Reference* or *Presentation Text Object Content Architecture Reference*. If the structured fields have no errors, the error may be a PSF logic error. If you used a program to create the structured field, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 17, 27.

APS895I SYSTEM ACTION TAKEN: PSF WILL ATTEMPT TO DOWNLOAD A HOST VERSION OF THE PRINTER-RESIDENT FONT IN ERROR AND CONTINUE PROCESSING THE DATA SET.

Explanation: This message describes the recovery performed by PSF when the printer reports an I/O error to PSF. This message accompanies a message that describes the I/O error.

System Action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

User Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System Programmer Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS896I THE DATA IN AN OBJECT CONTAINER RESOURCE WAS CONSIDERED INVALID BY THE PRINTER.

Explanation: The data in an object container resource was not considered valid by the printer, although the printer supports the resource type as identified by the Object Classification Triplet on the Begin Object Container structured field.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the data in the structured fields of the object container resource, correct the error and resubmit the print request. Refer to the appropriate documentation for the data stream being carried in the object container resource. If you

used a program to create the structured fields and the data, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS8971 DATA IN A FONT RESOURCE IS INVALID: THE COMPONENTS OF A GRID ARE NOT PRESENT OR ARE INVALID IN THE COMBINATION OF THE FONT CHARACTER SET AND CODE PAGE. A VALID GRID IS REQUIRED IN ALL FONTS FOR THIS PRINTER.

Explanation: While loading a font, the printer detected that not all the components of the GRID were present, or that some of them were invalid. The components of the GRID are in the code page and character set for the font.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS8981 DATA IN A CODE PAGE RESOURCE IS INVALID: THE GCSGID AND/OR CPGID ARE INVALID OR NOT PRESENT. VALID GCSGID AND CPGID ARE REQUIRED IN ALL FONTS FOR THIS PRINTER.

Explanation: While loading a code page, the printer detected that the GCSGID or CPGID was not present or was invalid.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the code page, correct the error and resubmit the print request. For more information about the structured field, refer to *Font Object Content Architecture Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the code page, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS8991 DATA IN A FONT CHARACTER SET RESOURCE IS INVALID: THE GCSGID AND/OR THE FGID ARE INVALID OR NOT PRESENT. VALID GCSGID AND FGID ARE REQUIRED IN ALL FONTS FOR THIS PRINTER.

Explanation: While loading a font character set, the printer detected that GCSGID or FGID was not present or was invalid.

System Action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User Response: If you created the structured fields for the code page, correct the error and resubmit the

print request. For more information about the structured field, refer to *Font Object Content Architecture Reference*. If the structured field has no error, the error may be a PSF logic error. If you used a program to create the structured fields for the code page, consult your system programmer.

System Programmer Response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for OS/390: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem Determination: Items 1, 2, 17, 27.

APS920I CHANNEL-ATTACHED PRINTER (*prtnnnn*) UNIT (*unit*) UNSUPPORTED.

Explanation: A printer that is not a channel-attached printer supported by PSF was allocated to PSF. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement. UNIT (*unit*) specifies the device address.

System Action: This message is issued during PSF initialization and causes the initialization to end.

User Response: No response is necessary.

System Programmer Response: Ensure that the UNIT (*unit*) is a supported, channel-attached printer. Possible causes of this message include:

- The printer, although not a PSF-supported device, was SYSGENed as a PSF-supported device. Check the SYSGEN 'IODEVICE' statement.
- A JES initialization statement specified a printer that is not supported by PSF. For JES2, check the 'UNIT=' parameter of the 'PRT*nnnn*' statement. For JES3, check the 'JUNIT=' parameter of the 'DEVICE' statement.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 10, 11, 17, 19, 24.

APS921I SNA-ATTACHED PRINTER(*prtnnnn*) LUNAME(*luname*) UNSUPPORTED.

Explanation: A printer that was not a valid SNA-attached printer supported by PSF was allocated to PSF. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer. LUNAME (*luname*) specifies the SNA logical unit name of the SNA-attached printer.

System Action: The PSF Functional Subsystem Application (FSA) ends.

User Response: No response is necessary.

System Programmer Response: Ensure that the LUNAME (*luname*) is a PSF-supported, SNA-attached printer. Correct the PRINTDEV statement (LUNAME) in the JCL procedure used to start PSF.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 17, 19.

APS922I COMMUNICATION WITH SNA-ATTACHED PRINTER(*prtnnnn*) LUNAME(*luname*) WAS TERMINATED, CAUSE(*cause*) VTAM CODE(' *nnnn*' X) SNA SENSE(' *mmmm*' X).

Explanation: This message indicates a probable network or printer error. For more information, refer to the appropriate referenced publications and see message APS925I. Communication with PRINTER (*prtnnnn*) was ended for the reason specified by CAUSE (*cause*).

A VTAM CODE (' *nnnn*' X) and SNA SENSE (' *mmmm*' X) are provided. The communications session cannot be reestablished, for one of the following reasons:

- The CAUSE is an error condition that is not retrievable.
- The PSF PRINTDEV specified FAILURE=STOP.
- The retry limit has been reached.

Any previous retries would have caused corresponding APS925I messages. Refer to *Advanced Communications Function for VTAM, Version 2, Programming*, or the appropriate VTAM version. For more information about the SNA SENSE in the error message, refer to *Systems Network Architecture Formats*.

PRINTER (*prtnnnn*) specifies the name on the PRINTDEV statement. LUNAME (*luname*) specifies the SNA logical unit name of the SNA-attached printer. CAUSE can be one of the following:

- ALLOCATION ERROR—HALT REQUESTED. The printer is not allocated because the VTAM network, or some subset of the network that includes this

- printer, is being shut down. No new communication is allowed.
- ALLOCATION ERROR—TRANSACTION PROGRAM NAME. The printer is not allocated, because the remote transaction program name is not compatible with PSF.
 - ALLOCATION ERROR—TRANSACTION PROGRAM RETRY. The printer is not allocated, because the remote transaction program is temporarily not available. Either the program is not currently authorized to run, or the resources to run it are not currently available.
 - DEALLOCATE—ABEND. The remote transaction program has deallocated the communication with TYPE(ABEND_TIMER), because its Device Busy Timer has expired.
 - DEALLOCATE—TIMER. The remote transaction program has deallocated the communication with TYPE(ABEND_TIMER), because its Device Busy Timer has expired.
 - DEALLOCATE—NORMAL. The remote transaction program has deallocated the communication with TYPE(FLUSH).
 - SESSION FAILURE—DEVICE ERROR. Communication with the printer has been ended because of a problem reported by the remote printer. SNA SENSE gives the SNA sense code sent by the printer. Refer to *Systems Network Architecture Formats*.
 - SESSION FAILURE—LOSTERM. Communication with the printer has been ended because a VTAM 'LOSTERM' exit was issued with the code given by VTAM CODE. For the definition of different LOSTERM reason codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming*, or the appropriate VTAM version.
 - SESSION FAILURE—NETWORK ERROR. Communication with the printer has been ended because a problem was encountered within the communications network. The RTNCD-FDBK2 from the VTAM RPL on entry to SYNAD/LERAD is given in the VTAM CODE field of the message. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming*, or the appropriate VTAM version.
 - SESSION FAILURE—TPEND. Communication with the printer has been ended because a VTAM 'TPEND' exit was issued with the code given by VTAM CODE. For TPEND reason codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming*, or the appropriate VTAM version.
 - SESSION FAILURE—UNBIND. The conversation with the printer has been ended because an 'UNBIND' was received with the code given by VTAM CODE. For UNBIND types, refer to *Systems Network Architecture Formats*.
 - SESSION RETRY—DEVICE ERROR. Communication with the printer has been ended because of a problem reported by the remote printer. SNA SENSE gives the SNA sense code sent by the printer. Refer to *Systems Network Architecture Formats*.
 - SESSION RETRY—LOSTERM. Communication with the printer has been ended because a VTAM 'LOSTERM' exit was issued with the code given by VTAM CODE. If the VTAM CODE is zero, NSEXIT was issued with a CLEANUP RU. In either case, the session was lost. For LOSTERM reason codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming*, or the appropriate VTAM version.
 - SESSION RETRY—UNBIND. Communication with the printer has been ended because an 'UNBIND' was received with the code given by VTAM CODE. For UNBIND types, refer to *Systems Network Architecture Formats*.
 - SESSION RETRY—NETWORK ERROR. Communication with the printer has been terminated because a problem was encountered within the communications network. The RTNCD-FDBK2 from the VTAM RPL on entry to SYNAD/LERAD is given in the VTAM CODE field of the message. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming*, or the appropriate VTAM version.
 - NO VTAM. VTAM is not available to honor the request to connect PSF with VTAM. The VTAM CODE gives the return code from the VTAM OPEN macro. For OPEN return codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming*, or the appropriate VTAM version.
 - APPLID PROBLEM. A problem with the network definition of the APPLID (name of the local logical unit) is specified on the JCL procedure used to start PSF. The VTAM CODE gives the return code from the VTAM OPEN macro. For OPEN return codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming*, or the appropriate VTAM version.
 - ACTIVATE—LOGICAL UNIT BUSY. Activation of the communication session failed, because the requested logical unit was busy or unavailable at this time. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. If the printer is not actually in use, LOGAPPL should be removed from the LU statement in your VTAM network definition for the printer. For RTNCD-FDBK2 codes, refer to

Advanced Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.

- **ACTIVATE—LOGICAL UNIT NOT ACTIVE.** Activation of the communication session failed, because the requested logical unit was not active or not enabled. SNA SENSE of X'0809' may indicate that the LUNAME is incorrect in the PSF PRINTDEV and is unknown to VTAM. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.*
- **ACTIVATE—PATH ERROR.** Activation of the communication session failed, because of a physical problem in the network path. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.*
- **ACTIVATE—VTAMHALT.** Activation of the communication session failed, because the ACF/VTAM operator issued a HALT command or a VARY NET, INACT, I, or F for PSF. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.*
- **ACTIVATE—ACB INACTIVE.** Activation of the communication session failed, because the ACB is being closed. This may be because a VARY NET,INACT was issued for the application. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.*
- **ACTIVATE—MODENAME.** Activation of the communication session failed, because the mode name used to start PSF is invalid. The MODENAME specified in the PSF PRINTDEV was not found in the logon mode table for the LUNAME specified on

the PSF PRINTDEV data statement. If no MODENAME was specified in the PSF PRINTDEV data set, the DLOGMODE that was specified in the LU statement in the VTAM network definition was not found in the logon mode table. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.*

- **ACTIVATE—LUNAME.** Activation of the communication session failed, because the LUNAME specified in the JCL procedure used to start PSF is invalid. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.*
- **ACTIVATE—NOT AUTHORIZED.** Activation of the communication session failed, because the application program name specified was not authorized to acquire the logical unit. This may be a network definition problem. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.*
- **ACTIVATE—PERMANENTLY NOT AVAIL.** Activation of the communication session activation failed, because the logical unit or a required resource is permanently unavailable. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.*
- **ACTIVATE—SESSION PARM INVALID.** Activation of the communication session failed, because the session parameters specified by LOGMODE in the PSF PRINTDEV were invalid for PSF or were rejected by the printer. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced*

Communications Function for VTAM, Version 2, Programming, or the appropriate VTAM version.

- **ACTIVATE—NEGOTIATION.** Activation of the communication session failed, because the negotiated session parameters were unacceptable to the host communications code.
- **ACTIVATE—DEACTIVATE.** Activation of the communication session failed, because PSF requested deactivation before the activation was complete. This condition represents a logic error in PSF.
- **ACTIVATE—ABORT.** Activation of the communication session failed because VTAM or communications management detected session-outage conditions during the activation, or SNA sense data indicated that the activation could not be completed for a reason that did not fit into the above categories. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. For RTNCD-FDBK2 codes, refer to *Advanced Communications Function for VTAM, Version 2, Programming*, or the appropriate VTAM version. For SNA sense codes, refer to *Systems Network Architecture Formats*.

System Action: The PSF FSA is ended. This message is issued because of conditions that cannot be retried or because the retry limit has been reached. For most of the above causes, PSF follows the FAILURE action specified on the PRINTDEV statement in the JCL procedure used to start PSF. However, PSF always ends for the following causes:

- ACTIVATE—ACB INACTIVE
- ACTIVATE—SESSPARM
- ACTIVATE—NOTAVAIL
- ACTIVATE—LUNAME
- ACTIVATE—MODENAME
- ACTIVATE—NEGOTIATION
- ACTIVATE—NOT AUTHORIZED
- APPLID PROBLEM
- ACTIVATE—VTAMHALT
- NO VTAM

User Response: No response is necessary.

System Programmer Response: If the problem was caused by an incorrect network specification or an incorrect PSF PRINTDEV statement, correct the invalid items. If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

If the procedure used to start PSF is changed (such as for APPLID PROBLEM, ACTIVATE—MODENAME, or ACTIVATE—LUNAME), the PSF FSS must be restarted to use the changed PRINTDEV statements.

Operator Response: If the CAUSE does not explain why the communication session with the printer was ended, notify your system programmer of this error. If CAUSE, VTAM CODE, or SNA SENSE explain why communication with the printer ended, fix the problem and restart the PSF FSA.

Problem Determination: Items 1, 17, 19.

APS923I COMMUNICATION WITH SNA-ATTACHED PRINTER(*prtnnnn*) LUNAME(*luname*) WAS TERMINATED DUE TO CONDITION (*condition*).

Explanation: The printer detected a device-inoperative condition and timed out before the printer operator could clear the condition. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement. LUNAME (*luname*) specifies the SNA logical unit name of the SNA-attached printer. CONDITION can be one of the following:

- Transport requires corrective action.
- Fuser requires corrective action.
- Permanent hardware error.
- Fuser oil supply empty.
- Out of paper (cassette) or no cassette.
- Improper media specified.
- Out of paper (in primary bin), or bin cover open.
- Output bin full.
- Paper jam.
- Printer not ready—open door.
- Toner supply empty.
- Suppressed jam recovery.
- Post processor attempted-off page printing.
- Paper specification check.
- Data-related print error.
- Image generator error.
- Developer mix needs changing.
- Oiler felt needs changing.
- Toner collector full.
- Fine filter needs changing.

System Action: Communication with the SNA-attached printer is ended. PSF follows the FAILURE action specified on the PRINTDEV statement in the JCL procedure used to start PSF.

For permanent hardware errors, PSF does not follow the FAILURE action. In this case PSF stops the printer. A permanent hardware error should be corrected before PSF is restarted.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Consult the person responsible for the remote printer.

Problem Determination: Items 1, 17, 19.

APS924I COMMUNICATION WITH SNA-ATTACHED PRINTER(*prtnnnn*) LUNAME(*luname*) WAS TERMINATED DUE TO A DISCONNECT INTERVAL TIMEOUT.

Explanation: Communication with PRINTER (*prtnnnn*) was ended because the printer had nothing to print for the amount of time specified by the DISCINTV parameter on the PRINTDEV statement specified for this printer. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer. LUNAME (*luname*) specifies the SNA logical unit name of the SNA-attached printer.

System Action: Communication with the SNA-attached printer is ended. PSF follows the TIMEOUT action specified on the PRINTDEV statement in the JCL procedure used to start PSF.

User Response: No response is necessary.

System Programmer Response: If this message displays frequently for an SNA-attached printer not shared by multiple host systems, consider increasing the amount of time specified in the DISCINTV parameter on the PRINTDEV statement in the procedure used to start PSF. For information on how to code a PRINTDEV statement, refer to *PSF for OS/390: Customization*.

Operator Response: If this message displays frequently for an SNA-attached printer that is not shared by multiple host systems, notify your system programmer.

Problem Determination: Items 1, 17, 19.

APS925I SESSION ACTIVATION WITH SNA-ATTACHED PRINTER(*prtnnnn*) LUNAME(*luname*) IS BEING RETRIED BECAUSE OF A PREVIOUSLY DETECTED RETRIABLE CONDITION(*condition*) VTAM CODE(' *nnnn* 'X) SNA SENSE(' *mmmm* 'X).

Explanation: Communication with PRINTER (*prtnnnn*) was ended for the reason specified by CONDITION (*condition*). The condition is RETRIABLE, and session activation has just been retried. A VTAM CODE (' *nnnn* 'X) and SNA SENSE (' *mmmm* 'X) have been provided. For reference to the condition and VTAM code in the error message, refer to *Advanced Function Communication Function for VTAM, Version 2, Programming* or the appropriate version of VTAM. For reference to the SNA sense in the error message, refer to *Systems Network Architecture Formats*.

CONDITION can be one of the following:

- PPCC—Allocerr TPRETRY
- PPCC—Sessrtry DEVERR
- PPCC—Sessrtry LOSTERM
- PPCC—Sessrtry NETERR
- PPCC—Sessrtry UNBIND

- ACTIVATE—LUBUSY
- ACTIVATE—LOGICAL UNIT NOT ACTIVE
- ACTIVATE—PATH ERROR
- ACTIVATE—ABORT
- ACTIVATE—DEACT

Special Note

See Message APS922I for a description of these conditions.

System Action: Session activation has been retried, and PSF is waiting for the activation to complete.

User Response: No response is necessary.

System Programmer Response: For the condition ACTIVATE—LOGICAL UNIT NOT ACTIVE, if the LU is not active because it does not exist, add LUNAME to the network definition.

Operator Response: In some cases, the activation completes without operator intervention. However, if the printer does not appear to be initializing (that is, a JES \$DU command shows the printer STARTING), the operator may have to intervene.

For the condition ACTIVATE—LOGICAL UNIT BUSY, the LUNAME is not available and may be in use by another invocation of PSF. Ensure that the LUNAME is available for this printer.

For the condition ACTIVATE—LOGICAL UNIT NOT ACTIVE, the LUNAME must be varied active by issuing a VTAM 'VARY NET,ACT' command.

For all conditions, it may be necessary to take action at the printer.

- Reset the printer by turning the power switch off and then on.
- If using a switched line, reestablish the connection by redialing the host.

Problem Determination: Items 1, 17, 19.

APS926I NORESP NOTIFY FAILED FOR PRINTER *prtnnnn*, RETURN CODE=*rc*.

Explanation: NORESP=NOTIFY was specified on the PRINTDEV statement for printer *prtnnnn*. When a no response timeout occurred for this printer, the notify was attempted but failed with the return code indicated.

System Action: The NORESP action is changed to NORESP=NOTIFY(OPERATOR) and the notify messages are directed to the system operator.

User Response: No response is necessary.

System Programmer Response: Correct the PRINTDEV statement for printer *prtnnnn*.

Operator Response: Notify your system programmer that this message was received.

Problem Determination: Items 1, 17, 24.

APS9271 *mechanism name IS DISABLED.*

Explanation: The mechanism listed in the message has been disabled by the printer operator.

System Action: This message is issued during PSF initialization.

User Response: No response is necessary.

System Programmer Response: If the mechanism indicated in the message is not disabled in the printer, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: Either allow the printer to start, which causes PSF to avoid the selection of the disabled mechanism, or cancel the PSF writer processor. If the mechanism indicated in the message is not disabled in the printer, notify your system programmer.

Problem Determination: Items 1, 17, 27.

APS9281 THE PAGE PRINTER COMMUNICATION COMPONENT HAS ABENDED, PPCC ABEND REASON CODE 'nnnnnnn'X, SNA SENSE ('mmmmmmm'X).

Explanation: The Page Printer Communications Component has abended. PSF has detected a PPCC abend reason code 'nnnnnnn'X with accompanying SNA SENSE ('mmmmmmm'X).

System Action: The PSF FSA is ended. An ESTAE routine takes an SVC dump for some PPCC abends. A subsequent message indicates whether an SVC dump is available.

User Response: Notify your system programmer of this error.

System Programmer Response: Examine the PPCC abend reason code and SNA sense value (if nonzero) to determine the appropriate response. For an explanation of the PPCC abend reason code, see Chapter 2, "System Completion Codes and PSF Abend Reason Codes" on page 285.

For some abends, consult your IBM Support Center.

Operator Response: Notify your system programmer of this error.

Problem Determination: None.

APS9291 COMMUNICATION WITH TCP/IP-ATTACHED PRINTER(*prtnnnn*)IPADDR(*ip-address*) WAS TERMINATED DUE TO A DISCONNECT INTERVAL TIMEOUT.

Explanation: Communication with PRINTER (*prtnnnn*) was ended because the printer had nothing to print for the amount of time specified by the DISCINTV parameter on the PRINTDEV statement specified for

the printer. PRINTER(*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer. IPADDR(*ip-address*) specifies the Internet Protocol (IP) address of the TCP/IP-attached printer.

System Action: Communication with the TCP/IP-attached printer is ended. PSF follows the TIMEOUT action specified on the PRINTDEV statement in the JCL procedure used to start PSF.

User Response: No response is necessary.

System Programmer Response: If this message displays frequently for a TCP/IP-attached printer that is not shared by multiple host systems, notify your system programmer.

Problem Determination: Items 1, 17, 19.

APS9301 PRINTER *prtnnnn*, WHICH IS A *printer model*, SPECIFIED AN INVALID OUTPUT BIN ID RANGE OF *first bin ID* – *last bin ID*.

Explanation: During the processing of the OPC response, an invalid output bin range was detected. An invalid output bin range means that the last ID in the range is incorrectly less than the first ID in the range.

System Action: This message is issued during PSF initialization, and the invalid output bin range is ignored. PSF initialization continues.

User Response: No response is necessary.

System Programmer Response: This indicates a possible logic error in the microcode of the printer. Consult your microcode service representative in the IBM Support Center for assistance.

Operator Response: PSF initialization continues without operator assistance. Some output bins on the printer may not be available for use. You might have to re-enable the bins or perform a power-on-reset.

Problem Determination: Items 1, 18.

APS9321 AN UNEXPECTED COMMUNICATION FAILURE OCCURRED DURING THE PRINTING OF THIS JOB. THE JOB WILL BE RESTARTED AT A PREVIOUS CHECKPOINT, AND PAGES MAY BE DUPLICATED.

Explanation: PSF detected an unexpected failure in communication with the printer; for instance, the session was lost during page processing. Some pages may have printed, of which PSF was not informed. When TCP/IP attached to the printer, this message could be caused by TCP/IP being recycled.

System Action: The data set being processed at the time of the error is restarted from the most recent checkpoint before the interrupt.

User Response: Examine your output for duplicate pages.

System Programmer Response: No response is necessary.

Operator Response: To determine an appropriate response, see the specific error conditions described in any accompanying console message.

Problem Determination: Items 1, 25, 26, 27.

APS933I PRINTER INFORMATION, DEV=pppp, ADDR=cuu|luname, SYSNAME=sssssss, CPUID=cccccccccc, ATTACH=psf|dpf|psfdirect.

Explanation: A printer information message was issued. The following describes the printer:

- *pppp* is the printer device type—for example, 3900 or 3816.
- *cuu* is the three- or four-digit device number of the channel-attached printer, or *luname* specifies the SNA logical unit name of the SNA-attached printer.
- *sssssss* is the system name for the current system. *cccccccccc* is the CPU ID, which also contains the serial number.
- ATTACH indicates whether the printer is attached by Print Services Facility (PSF), PSF/2 Distributed Print Function (DPF), or PSF Direct (PSFDIRECT).

System Action: This message is issued only to the operator console. PSF continues processing.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Ensure that the correct printer device type was started and attached correctly (CUU or LUNAME, and PSF, DPF, or PSFDIRECT).

Problem Determination: None.

APS934I COMMUNICATION WITH TCP/IP-ATTACHED PRINTER(*prtnnnn*) IP ADDRESS(*ip-address*) WAS TERMINATED, CAUSE (*reason*) TCP/IP ERRNO(*errno*).

Explanation: A network or printer error occurred, causing communication with the printer to end. The TCP/IP session with the printer cannot be established, for one of the following reasons:

- The error condition cannot be retried.
- The PSF PRINTDEV specified FAILURE=STOP.
- Connect interval (CONNINTV) timer expired.

The APS934I message is issued from the PSF ESTAE and does not have complete information if the error is a network error or printer communication error. In some cases APS935I will precede APS934I and has more

detailed CAUSE information. If the APS935I message is issued, always use APS935I to determine the cause.

If PSF retried the error, you will have received corresponding APS935I messages.

TCP/IP ERRNO(*errno*) indicates the TCP/IP error. To interpret the ERRNO, refer to *TCP/IP for MVS: Application Programming Interface Reference* (TCP/IP 3.2) or *OS/390 eNetwork Communications Server: IP Application Programming Interface Guide* (TCP/IP 3.4 and above).

Common ERRNOs associated with this message are:

- 49** Can't reach destination, indicating a bad IP address.
- 60** Printer might be powered off.
- 61** Connection was refused. This might happen when the printer is in the process of accepting a connection with another partner and refuses other connections while completing the current request. It also might happen when the IP address is valid but the target system is not a printer or host that has the IBM printer layer code.

PRINTER(*prtnnnn*) specifies the name of the PRINTDEV statement. IP ADDRESS(*ip-address*) specifies the Internet Protocol (IP) address of the TCP/IP-attached printer. CAUSE can be any of the following:

- SOCKET CONNECT FAILED—PSF failed to establish a socket connection with the printer. PSF displays this reason when:
 - The printer is powered off.
 - If the printer is attached with an i-data 7913 IPDS printer LAN Attachment, either the printer or the i-data 7913 IPDS Printer LAN Attachment is not powered on.
 - The wrong IP address is specified in the PRINTDEV statement.
 - The printer is not physically attached.
 - The IP address specified in the PRINTDEV statement is a duplicate of another IP address on the network.
- OPEN SESSION FAILED—PSF failed to establish a session with the printer because of either a timeout waiting for a reply from the printer or a communication error. PSF displays this reason when:
 - The target system is not executing the IBM printer layer code.
 - The printer is being used by another PSF FSA on the same host.
- PRINTER ASSIGN FAILED—The host request to assign the printer failed. The printer can be

reached, but it did not accept the assignment request.

- **PRINTER ASSIGNED ELSEWHERE**—The printer(*prtnnnn*) at IP address(*ip-address*) is being used by another host application. Only one task such as PSF can communicate with the printer at any given time.
- **PRINTER ASSIGN TIMEOUT**—The printer did not reply to a host request for assignment of an IPDS conversation.
- **INVALID MESSAGE VERSION**—This cause indicates an incompatibility between PSF and the printer. If the communication failure occurs with a printer supported by PSF, notify your system programmer of this error.
- **NONACK RETRY**—Communication with the printer was terminated, but there is a RETRY condition. PSF will try to re-establish communication with the printer.
- **NONACK NORETRY**—Communication with the printer was terminated. PSF displays this reason when:
 - The printer has a hardware failure.
 - The connection with the printer is lost.
 - An unknown communication failure occurs.
- **NONACK COMMERR**—PSF lost communication with the printer because of either a timeout waiting on a reply from the printer or a communication error. PSF displays this reason when the physical connection with the printer is lost.

System Action: The PSF FSA ends because the condition cannot be retried or the connect interval (CONNINTV) timer has expired.

System Programmer Response: If the problem was caused by an incorrect network specification or an incorrect PSF PRINTDEV statement, correct the incorrect items. If a communications-attachment failure occurred, use the PING command with the IP address in the message to ensure that the printer's TCP/IP socket connection to this address is active. For information on how to ping an IP address, refer to *PSF for OS/390: Customization*.

If this printer is being shared by another host print application or by another PSF, refer to information about sharing a printer in *PSF for OS/390: Customization*.

If you changed a PRINTDEV parameter on the PSF startup procedure, such as the IP address, the PSF FSS must be restarted in order to use the changes.

If the error condition persists, follow the procedures described in *PSF for OS/390: Customization* before consulting the IBM Support Center.

Operator Response: If CAUSE and ERRNO explain why communication with the printer ended, fix the

problem and restart the PSF FSA. If the CAUSE does not explain why the communication session with the printer was ended, notify your system programmer of this error.

Problem Determination: Items, 1, 17, 19.

AP935I CONNECTION WITH TCP/IP-ATTACHED PRINTER(*prtnnnn*) IPADDR(*ip-address*) IS BEING RETRIED BECAUSE OF A PREVIOUSLY DETECTED RETRIABLE CONDITION (*reason*), TCP/IP ERRNO(*errno*).

Explanation: Communication with the printer was ended for a condition that can be retried. PSF has just retried to establish the session.

TCP/IP ERRNO(*errno*) indicates the TCP/IP error. To interpret the *errno*, refer to *TCP/IP for MVS: Application Programming Interface Reference* (TCP/IP 3.2) or *OS/390 eNetwork Communications Server: IP Application Programming Interface Guide* (TCP/IP 3.4 and above).

Common ERRNOs associated with this message are:

- 49** Can't reach destination, indicating a bad IP address.
- 60** Printer might be powered off.
- 61** Connection was refused. This might happen when the printer is in the process of accepting a connection with another partner and refuses other connections while completing the current request. It also might happen when the IP address is valid but the target system is not a printer or host that has the IBM printer layer code.

PRINTER(*prtnnnn*) specifies the name of the PRINTDEV statement. IPADDR(*ip-address*) specifies the Internet Protocol (IP) address of the TCP/IP-attached printer. CONDITION can be any of the following:

- **SOCKET FAILED**—PSF was not able to get a socket on the MVS or OS/390 operating system.
- **SOCKET CONNECT FAILED**—PSF failed to establish a socket connection with the printer. PSF displays this reason when:
 - The printer is powered off.
 - If the printer is attached with an i-data 7913 IPDS printer LAN Attachment, either the printer or the i-data 7913 IPDS Printer LAN Attachment is not powered on.
 - The wrong IP address is specified in the PRINTDEV statement.
 - The printer is not physically attached.

- The IP address specified in the PRINTDEV statement is a duplicate of another IP address on the network.
- IOCTL FAILED—The socket connection requires a non-blocking socket but the call to make the socket non-blocking failed.
- SETSOCKOPT FAILED—The call to set the KEEPALIVE option on for the socket connect failed.
- OPEN SESSION FAILED—PSF failed to establish a session with the printer because of either a timeout waiting for a reply from the printer or a communication error. PSF displays this reason when:
 - The target system is not executing the IBM printer layer code.
 - The printer is being used by another PSF FSA on the same host.
- PRINTER. ASSIGN FAILED—The host request to assign the printer failed. The printer can be reached, but it did not accept the assignment request.
- PRINTER ASSIGNED ELSEWHERE—The printer(*prtnnnn*) at IP address(*ip-address*) is being used by another host application. Only one task such as PSF can communicate with the printer at any given time.
- PRINTER ASSIGN TIMEOUT—The printer did not reply to a host request for assignment of an IPDS conversation.
- NONACK RETRY—Communication with the printer was terminated.
- NONACK COMMERR—PSF has lost communications with the printer because of either a timeout waiting for a reply from the printer or a communication error. PSF displays this message when the printer was attached but for some reason the connection is severed through a hardware or software problem.

System Action: Start of the session has been retried, and PSF waits for the activation to complete. If FAILURE=WCONNECT was specified on the PRINTDEV statement in the PSF startup procedure, PSF attempts to restart the session continuously, issuing the APS935I message only when the ERRNO or REASON code changes between attempts.

User Response: No response is necessary.

System Programmer Response: If the problem was caused by an incorrect network specification or an

incorrect PSF PRINTDEV statement, correct the incorrect items.

If a communication-attachment failure occurred, use the PING command with the IP address in the message to ensure that this printer's TCP/IP socket connection to this address is active. For information on how to ping an IP address, refer to *PSF for OS/390: Customization*.

If this printer is being shared by another host print application or by another PSF, refer to information about sharing printers in *PSF for OS/390: Customization*.

Operator Response: If CONDITION and ERRNO explain why communication with the printer ended, fix the problem and restart the PSF FSA. If the CONDITION does not explain why the communication session with the printer ended, notify your system programmer of this error.

If the printer does not respond to PSF, you can terminate the printer FSA by use of the MODIFY command:

```
MODIFY FSSname,FORCE,printer-name
```

Problem Determination: Items 1, 25, 26, 27.

APS936I COMMUNICATION WITH SNA-ATTACHED PRINTER(*prtnnnn*) LUNAME(*luname*) WAS TERMINATED DUE TO A RELEASE REQUEST FROM VTAM.

Explanation: Communication with PRINTER (*prtnnnn*) was ended after VTAM indicated that another print driver had queued a session request for the printer and the release interval (RELINTV) had expired. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer. LUNAME (*luname*) specifies the SNA logical unit name of the SNA-attached printer.

System Action: Communication with the SNA-attached printer is ended. PSF attempts to restart the session with the printer according to the management mode (MGMTMODE) specified on the PRINTDEV statement.

User Response: No response is necessary.

System Programmer Response: If this message displays too frequently, consider increasing the amount of time specified in the RELINTV parameter on the PRINTDEV statement in the procedure used to start PSF. For information on printer sharing, refer to *PSF for OS/390: Customization*.

Operator Response: If this message displays frequently, notify your system programmer.

Problem Determination: Items 1, 17, 19.

APS937I IPDS DIALOG WITH PRINTER(*prtnnnn*) WAS ENDED DUE TO A RELEASE REQUEST FROM THE PRINTER.

Explanation: The IPDS dialog with PRINTER (*prtnnnn*) was ended after a release request (NACK) was received from the printer and the release interval (RELINTV) expired. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer.

System Action: Communication with the printer is suspended temporarily. PSF attempts to restart the dialog with the printer according to the release mode (RELMODE) specified on the PRINTDEV statement. When the release mode is IDLE, the dialog is restarted when another data set for the printer is on the JES spool. When the release mode is TIME, the dialog is restarted after the acquire interval (ACQINTV) expires.

User Response: No response is necessary.

System Programmer Response: If this message displays too frequently, consider increasing the amount of time specified in the RELINTV (and the ACQINTV if RELMODE=TIME) parameter on the PRINTDEV statement in the procedure used to start PSF. For information on printer sharing, refer to *PSF for OS/390: Customization*.

Operator Response: If this message occurs frequently, consult your system programmer.

Problem Determination: Items 1, 17, 19.

APS938I IPDS DIALOG WITH PRINTER(*prtnnnn*) WAS RESTARTED.

Explanation: The IPDS dialog with PRINTER (*prtnnnn*) had been suspended and is now restarted. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer.

System Action: Communication with the printer continues.

User Response: No response is necessary.

System Programmer Response: No response is necessary. For information on printer sharing, refer to *PSF for OS/390: Customization*.

Operator Response: No response is necessary.

APS939I STARTUP OF COMMUNICATION WITH PRINTER (*prtnnnn*) WAS ABORTED DUE TO A CONNECT INTERVAL TIMEOUT.

Explanation: PSF attempted to start a session or dialog with the printer for the period of time specified by the connect interval (CONNINTV). The printer was busy or unavailable for this period of time. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer.

System Action: The PSF FSA for the printer is terminated.

User Response: No response is necessary.

System Programmer Response: If this message displays too frequently, consider increasing the amount of time specified in the CONNINTV parameter on the PRINTDEV statement in the procedure used to start PSF.

Operator Response: If this message displays frequently, notify your system programmer.

Problem Determination: Items 1, 17, 19.

APS940I REQUIRED RESPONSE NOT RECEIVED FROM PRINTER *prtnnnn*.

Explanation: The time specified by the PRINTDEV RESPTIME keyword for printer *prtnnnn* expired before PSF received a response from the printer.

System Action: The action specified by the NORESP keyword on the PRINTDEV statement is taken.

User Response: Have the person responsible for the printer check the printer to determine why it is not responding to PSF and correct the condition.

System Programmer Response: Have the person responsible for the printer check the printer to determine why it is not responding to PSF and correct the condition.

Operator Response: Have the person responsible for the printer check the printer to determine why it is not responding to PSF and correct the condition.

Problem Determination: Items 8, 12, 13, 19.

APS941I MISSING RESPONSE RECEIVED FROM *prtnnnn*.

Explanation: This message follows APS940I and indicates that the problem is corrected and the printer is now responding to PSF.

System Action: None.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

APS942I AUTOMATIC RESOLUTION MODE NOT SUPPORTED WHEN ATTACHED TO EITHER DPF OR RPM3. SWITCH THE PRINTER OUT OF AUTOMATIC RESOLUTION MODE.

Explanation: PSF is connected to the printer with an intermediate device of either DPF or RPM3, and the printer is in automatic resolution mode. This configuration is not supported.

System Action: The PSF FSA for the printer is terminated with an abend 024 and abend reason code 0243.

User Response: No response is necessary.

System Programmer Response: Switch the printer out of automatic resolution mode.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 18.

APS943I PSF WAS UNABLE TO COMPLETE CHANNEL INITIALIZATION. THE REGION SIZE IS PROBABLY TOO SMALL.

Explanation: Additional storage was required to complete channel initialization, but this storage was not available. This message is followed by PSF message APS050I.

System Action: PSF processing terminates abnormally with an abend 024 and abend reason code 0201.

User Response: Contact your system programmer.

System Programmer Response: Increase the Region Parameter on the startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None.

APS946I INVALID IPADDR (*ip_address*) SPECIFIED IN THE PRINTDEV.

Explanation: The IP address specified in the PRINTDEV statement of the startup procedure for PSF is invalid. It is not a valid dotted decimal address or a valid host name.

System Action: The PSF FSA ends.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Ensure that the IP address is a valid dotted decimal address or a valid host name.

Operator Response: Notify your system programmer.

Problem Determination: Item 1.

APS947I COMMUNICATION WITH TCP/IP ATTACHED PRINTER (*prtnnnn*) WAS TERMINATED DUE TO PERMANENT HARDWARE ERROR.

Explanation: The printer detected a device-inoperative condition. PRINTER(*prtnnnn*) specifies the name of the PRINTDEV statement.

System Action: Communication with the TCP/IP attached printer is ended. PSF stops the printer. This permanent hardware error should be corrected before PSF is restarted.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: Consult the person responsible for the remote printer.

Problem Determination: Items 1, 17, 19.

APS948I INITAPI FAILED FOR ADDRESS SPACE NAME OF (*tcpip_name*) FOR REASON (*reason*).

Explanation: PSF detected that it had not issued a successful INITAPI request using the *tcpip_name* given. *Reason* may be: NO TCP/IP—The FSS was not able to find the TCP/IP module EZASOK03.

System Action: The PSF FSA ends.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Ensure that TCP/IP was installed in a library that is loadable by PSF.

Operator Response: Notify your system programmer.

Problem Determination: Items 1, 4, 5, 9, 17.

APS949I INITAPI FAILED FOR TCP/IP ADDRESS SPACE NAME OF (*tcpip_name*) WITH A RETURN CODE OF (*nnnn*) AND AN ERRNO OF (*nnnn*).

Explanation: The INITAPI call to TCP/IP failed. RETURN CODE has the return code from the call, and ERRNO has the TCP/IP error number. The *tcpip_name* has the TCP/IP address space name, either the default name, TCPIP, or the name specified as a parameter on the EXEC statement.

System Action: The PSF FSA ends.

System Programmer Response: Verify that *tcpip_name* is the TCP/IP address space name. This is the TCP/IP started task name that is in the TCP/IP profile data set with the TCPIPJOBNAME keyword. Unless the TCP/IP address space name was specified on the EXEC statement in the PSF writer procedure, then PSF will use the default name, TCPIP. Check the ERRNO value in *TCP/IP for MVS: Application Programming Interface Reference* (TCP/IP 3.2) or *OS/390 eNetwork Communications Server: IP Application Programming Interface Guide* (TCP/IP 3.4 and above).

Operator Response: Verify that the TCP/IP procedure with the *tcp_ip* name was started. If the TCP/IP task has not been started, you must cancel the writer

procedure; then start the TCP/IP task and restart the printer.

Problem Determination: None.

APS950I EXIT PUT PROCESSING TERMINATED.

Explanation: The Document Processor subcomponent of PSF detected an error while the installation exit routine, APSUPUT, had control. This message may have been issued because of an I/O error.

System Action: A separator page may be incomplete.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Examine the installation exit processing routine in control to see whether it contains an invalid APSUPUT record.

Operator Response: If no I/O error occurred before this message, notify your system programmer.

Problem Determination: Items 1, 3, 19, 26.

APS951I SEPARATOR PAGES WILL NOT BE GENERATED AND PSF INSTALLATION EXITS WILL NOT BE INVOKED.

Explanation: Initialization of the PSF installation exit routine failed, for one of the following reasons:

- An insufficient length was specified in the APSUCOM table.
- The APSUCOM module could not be found.
- A BLDL macro or a LOAD macro failed.

System Action: Processing continues without installation exits.

User Response: No response is necessary.

System Programmer Response: Evaluate any changes made to the APSUCOM module (static table), to the exit processor routines, or to the methods used to establish the table or routines in the system. Other messages may contain BLDL macro or LOAD macro return and reason codes.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS952I BLDL FAILURE DURING INSTALLATION EXIT INITIALIZATION, BLDL RETURN CODE *return code*, BLDL REASON CODE *reason code*.

Explanation: While PSF was finding the installation exit processing modules, the BLDL macro failed.

System Action: Processing continues without installation exits. Processing of separator pages is suspended.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Evaluate the BLDL macro return codes and reason codes to determine the cause of this failure. For more information, refer to *MVS/ESA Data Administration: Macro Instruction Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS953I FAILURE DURING LOAD OF *exit routine*, SYSTEM COMPLETION COD *system completion code*, SYSTEM REASON CODE *system reason code*.

Explanation: When attempting to LOAD an installation exit routine, the LOAD macro failed.

System Action: PSF does not initialize.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Use the system completion code and system reason code issued by the LOAD SVC to determine an appropriate response. To interpret the completion code and reason code, refer to *OS/390 MVS System Codes* or *MVS/ESA Message Library: System Codes*. Also refer to *MVS/ESA System Programming Library: Application Development Macro Reference* for a description of the LOAD macro.

After resolving the problem, restart the printer.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS954I TERMINATION OF THIS DATA SET WAS REQUESTED BY THE RESOURCE EXIT. *(optional text)*.

Explanation: The Resource Exit requested termination of the data set. Optional text may also be provided.

System Action: Processing of this data set is terminated.

User Response: Notify your system programmer of this error.

System Programmer Response: You may use the Resource Exit to insert data into the *optional text* field of the message, to provide a more detailed explanation for the user as to why this termination occurred. For more information on how to provide optional message text, refer to *PSF for OS/390: Customization*.

Operator Response: No response is necessary.

Problem Determination: None.

APS955I BLDL FAILURE DURING INSTALLATION EXIT INITIALIZATION, BLDL RETURN CODE *return code*, **BLDL REASON CODE** *reason code*.

Explanation: During address space initialization, the BLDL macro failed while locating the installation exit processing modules.

System Action: PSF will attempt to load the exits again when the printer is started.

Because the exits could not be found, PSF assumes that the exits run in 31-bit addressing mode (AMODE 31) and obtains the exit data areas above the 16MB line.

User Response: No response is necessary.

System Programmer Response: Evaluate the BLDL macro return codes and reason codes to determine the cause of this failure. For more information, refer to *MVS/ESA Data Administration: Macro Instruction Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS956I 24-BIT ADDRESSING CANNOT BE USED BY THE INSTALLATION EXIT *exit routine* **AT THIS TIME. THE EXIT WILL NOT BE INVOKED.**

Explanation: At address space initialization, PSF determined that all of the exits executed in 31-bit addressing mode (AMODE 31). The addressing mode may not be changed to 24-bit (AMODE 24) without stopping all the printers in the address space, canceling the PSF address space, and restarting the printers. This problem may be caused in two ways:

- All of the exits executed in AMODE 31. At least one exit was added or was changed to AMODE 24 without canceling the PSF address space.
- During address space initialization, PSF was unable to load one or more of the installation exits because of a BLDL error. PSF assumed that the exits executed in AMODE 31. When a printer was started, PSF loaded this exit, which was AMODE 24.

System Action: Processing continues without this exit.

User Response: No response is necessary.

System Programmer Response: In order to use the exit, perform the following steps:

- Stop all printers in the address space.

- Cancel the PSF address space.
- Restart the printers.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS957I FAILURE DURING LOAD OF *exit routine*, **SYSTEM COMPLETION CODE** *system completion code*, **SYSTEM REASON CODE** *system reason code*.

Explanation: When attempting to LOAD an installation exit routine, the LOAD macro failed.

System Action: The PSF address space does not initialize.

User Response: No response is necessary.

System Programmer Response: To determine an appropriate response, use the system completion code and the system reason code issued by the LOAD SVC routine. To interpret the completion code and reason code, refer to *OS/390 MVS System Codes* or *MVS/ESA Message Library: System Codes*. Also refer to *MVS/ESA System Programming Library: Application Development Macro Reference* for a description of the LOAD macro. After resolving the problem, restart the printer.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS958I PSF INSTALLATION EXITS WILL NOT BE INVOKED.

Explanation: The initialization of the PSF installation exit routine failed, for one of the following reasons:

- Insufficient length was specified in the APSUCOM table.
- The APSUCOM module could not be found.
- A BLDL macro failed.

System Action: Processing continues without installation exits.

User Response: No response is necessary.

System Programmer Response: Evaluate any changes made to the APSUCOM module (static table), to the exit routines, or to the methods used to establish the tables or routines in the system. Other messages may contain BLDL macro return and reason codes.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS959I SEPARATOR PAGES WILL NOT BE GENERATED. INSTALLATION EXIT *exit* routine IS NOT AVAILABLE.

Explanation: Initialization of the PSF installation exit routine failed because the APSUBTBL module could not be found.

System Action: Processing continues without this installation exit.

User Response: No response is necessary.

System Programmer Response: To use the installation exit, perform the following steps:

- Stop all printers in the address space.
- Cancel the PSF address space.
- Add load module APSUBTBL to the linklib.
- Restart the printers.

Operator Response: Notify your system programmer of this error.

Problem Determination: Items 1, 3.

APS960I UNABLE TO {OPEN | CLOSE} DD STATEMENT *ddname*. TRACE FORMATTING TERMINATED.

Explanation: The indicated *ddname* could not be opened or closed by the PSF Trace Formatter. Processing is terminated because the data set is required.

System Action: The Trace Formatter terminates processing. If the error occurred during a CLOSE request, the output data set may or may not have been created. The state of the input data set is not affected.

User Response: Verify that the indicated data set is correctly allocated and that the DD statement is correct in the JCL for the trace formatter job.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 13, 14, 17.

APS961I INVALID SYSIN DATA SET ATTRIBUTES WERE SPECIFIED.

Explanation: The DCB attributes of the SYSIN data set are invalid, in one of the following ways:

- The record length of the SYSIN data set is not 80. A record length of 80 is required for the SYSIN data set.
- The SYSIN data set is not in fixed-record format. A fixed-record format is required for the SYSIN data set.

System Action: Trace Formatter processing was terminated. No output data set is created.

User Response: Ensure that the SYSIN data set has a block size of 80 and is in fixed-record format.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 13, 14, 17.

APS962I INSUFFICIENT VIRTUAL STORAGE WAS AVAILABLE TO ACQUIRE CONTROL BLOCK REQUIRED FOR TRACE FORMATTING. TRACE FORMATTING WAS TERMINATED.

Explanation: A GETMAIN error occurred during Trace Formatter initialization. Initialization could not be completed.

System Action: Trace Formatter processing is terminated. No output data set is created. The state of the input data set is not affected.

User Response: Increase the region size in the JCL for the trace formatter job.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 1, 7, 17.

APS963I INVALID TRACE CONTROL OPTIONS SPECIFIED, TYPE=SHORT WAS ASSUMED.

Explanation: The options specified in the SYSIN data set were not recognized by the Trace Formatter. For information on the format of the SYSIN control options, refer to *PSF for OS/390: Diagnosis*.

System Action: Tracing will be performed, using TYPE=SHORT.

User Response: Correct the options specified in the SYSIN data set.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 12, 17.

APS964I AN INCOMPLETE TRACE RECORD WAS FOUND AT THE END OF THE TRACE DATA SET.

Explanation: An end of file was encountered before all the data associated with an input trace record had been processed. Incomplete trace records can occur for many reasons, including the following:

- PSF was canceled by the operator while tracing.
- End of Volume was encountered while PSF was tracing.

- An I/O error occurred while PSF was tracing.
- A part of the PSF trace is being formatted.

System Action: Part or all of the incomplete trace record was not formatted. Formatting of the partial record was attempted. The partial record may have been formatted in dump format.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: If the error condition persists, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 1, 8, 13, 17.

APS965I NUMBER OF TRACE RECORDS PROCESSED = count.

Explanation: The indicated number of input trace records were processed during the execution of the PSF Trace Formatter. The number of trace records may not match the number of trace entries. The message is printed every time the number of entries processed counter-wraps to 0. To obtain the total number of entries processed, add all the occurrences of this message.

System Action: Trace Formatter processing continues.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS966I NUMBER OF TRACE RECORDS IN ERROR = count.

Explanation: The indicated number of input unformatted trace records contained errors. The unformatted trace records were in an unrecognizable format. This message is printed every time the trace entries in error counter wraps to 0. To get the total number of trace entries containing errors, add all the occurrences of this message.

System Action: The entries containing errors were printed in dump format, and recovery was attempted.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Errors in the unformatted trace data set can occur because:

- The unformatted trace data set was modified or copied to a data set that has incompatible DCB characteristics.

- The DCB characteristics used in generating the data set do not match the DCB characteristics specified to the Trace Formatter.

If the PSF generated unformatted trace data set was unaltered, consult your IBM service representative.

Operator Response: No response is necessary.

Problem Determination: Items 8, 13, 17.

APS967I SYSIN DATA SET COULD NOT BE OPENED. DEFAULT FORMATTING TYPE OF SHORT WAS USED.

Explanation: The SYSIN data set could not be opened; the default option (TYPE=SHORT) was assumed.

System Action: The default control option, TYPE=SHORT, was assumed.

User Response: If a SYSIN data set was specified in the Trace Formatter JCL, verify that the data set exists. If the data set exists and was correctly specified in the Trace Formatter JCL, report the problem to your system programmer.

System Programmer Response: If you suspect a PSF Trace Formatter logic error, follow the procedures described in *PSF for OS/390: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 12, 13, 15, 17.

APS970I NO FCB PARAMETER WAS SPECIFIED IN THE DATA SET JCL OR AS A JES DEFAULT.

Explanation: The data set being processed was identified as requiring 3800 line-mode conversion. However, no FCB parameter was found in the JCL for the data set; therefore, the processing could not take place.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRERROR=QUIT was specified on the OUTPUT statement.

User Response: If the data set requires 3800 line-mode conversion, specify the correct FCB parameter in the JCL for the data set. If the data set JCL cannot be changed, request that the job be printed on a 3800 printer in compatibility mode or on a 3900 printer with the 3800 compatibility for 3900 RPQ 8B3997. If the data set does not require 3800 line-mode conversion, consult your system programmer, or change the JCL to specify a page definition or form definition that should be used to print this data set. Specifying a page definition or form definition will override the request to perform the conversion function.

System Programmer Response: The installed version of APSUX04/APSUX14 requested that the 3800 line-mode conversion function be performed for this data set. If the conversion function is in fact required, PSF cannot determine the correct formatting of each page, because no FCB is specified. Either specify an installation default FCB, or request that the job be printed in JES 3800 compatibility mode or on a 3900 printer with the 3800 compatibility mode for 3900 RPQ 8B3997 installed.

If you do not want 3800 line-mode conversion for this data set, change APSUX04/APSUX14 to specify no conversion.

Operator Response: No response is necessary.

Problem Determination: Items 3, 17, 19.

APS9711 MEMBER *member name* WAS NOT FOUND IN SYS1.IMAGELIB.

Explanation: The data set being processed was identified as requiring 3800 line-mode conversion. However, the member was not found in the JES resource library SYS1.IMAGELIB; therefore, the processing could not take place.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: If you want 3800 line-mode conversion for this data set, an FCB matching the FCB name in the user JCL must exist in SYS1.IMAGELIB. If the FCB name in the JCL is incorrect, change the name of the FCB in the JCL statements. If the FCB name in the JCL is correct, create an FCB, using IEBIMAGE, that matches the FCB name specified in the JCL. If you do not want 3800 line-mode conversion for this data set, or you are using the FCB specified in the JCL as a page definition name to be accessed in a PSF resource library, consult your system programmer.

System Programmer Response: If the data set should not be converted from 3800 line mode to PSF line mode, change APSUX04/APSUX14 to request that this data set not be converted.

Operator Response: No response is necessary.

Problem Determination: Items 3, 17, 19.

APS9721 A SYSTEM LOAD ERROR WAS DETECTED WHILE ATTEMPTING TO LOAD MEMBER *member name* FROM SYS1.IMAGELIB, SYSTEM COMPLETION CODE *system completion code*, SYSTEM REASON CODE *system reason code*.

Explanation: The data set being processed was identified as requiring 3800 line-mode conversion.

However, a LOAD error occurred during the attempt to load the member from SYS1.IMAGELIB into virtual storage.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: To determine an appropriate response, Use the system completion code and system reason code issued by the LOAD SVC routine. To interpret the completion code and reason code, refer to *MVS/ESA System Programming Library: Application Development Macro Reference* for a description of the LOAD macro. After resolving the problem, resubmit the data set.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 3.

APS9731 THE PAGE LENGTH OF *fcf-paper-length* INCHES DEFINED IN FCB *fcf-name* DOES NOT MATCH THE *physical-paper-length* INCH LENGTH OF THE PAPER LOADED IN THE PRINTER.

Explanation: The data set being processed was identified as requiring 3800 line mode conversion. However, the paper length in the FCB, as calculated by number of lines and lines per inch, must match the physical length of the paper loaded in the printer.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: If the correct FCB was specified in the data set JCL, request that the operator load the correct paper in the printer, or specify the correct installation-defined FORM= in the data set JCL. If the FCB specified is incorrect for the data set JCL, correct the FCB specified and resubmit the data set.

System Programmer Response: No response is necessary.

Operator Response: Load the FORM that corresponds to the paper size specified in the FCB.

Problem Determination: Items 2, 17, 19.

APS974I THE DATA SET IS NOT A VALID CANDIDATE FOR 3800-1 COMPATIBILITY MODE PROCESSING. COPYMOD *copymod-name* WAS SPECIFIED IN THE DATA SET JCL, BUT COPYMOD PROCESSING IS NOT A SUPPORTED FUNCTION.

Explanation: The data set being processed was identified as requiring 3800-1 compatibility mode (3800 line mode) conversion. However, a COPYMOD *copymod-name* was specified in the data set JCL; and COPYMOD conversion is not a supported function.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Request that the job be printed in JES 3800-1 compatibility mode or on a 3900 printer with the 3800 Compatibility for 3900 RPQ 8B3997 installed.

System Programmer Response: No response is necessary.

Operator Response: Route the job to a 3800 printer that is running in JES 3800-1 compatibility mode or to a 3900 printer with the 3800 Compatibility for 3900 RPQ 8B3997 installed.

Problem Determination: Items 3, 17, 19.

APS975I THE DATA SET IS NOT A VALID CANDIDATE FOR 3800-1 COMPATIBILITY MODE PROCESSING, BECAUSE A PAGEDEF OR FORMDEF PARAMETER WAS SPECIFIED IN THE DATA SET JCL. THE DATA SET WAS PRINTED USING THE PAGEDEF OR FORMDEF SPECIFIED IN THE JCL.

Explanation: The data set being processed was identified as requiring 3800-1 compatibility mode (3800 line mode) conversion. Because PAGEDEF or FORMDEF parameter was specified in the data set JCL, no attempt was made to convert the job from 3800 line mode to PSF line mode. Instead, the data set had been printed as if no conversion had been requested. If an FCB was specified in the data set JCL, and no PAGEDEF was specified, the FCB name is used as the PAGEDEF. If both an FCB and a PAGEDEF parameter were specified in the JCL, the PAGEDEF parameter was used to print the data set.

System Action: PSF continues processing the data set, but does not perform the 3800 line-mode conversion to PSF line mode.

User Response: Remove the PAGEDEF or FORMDEF parameters from the JCL, or notify your system programmer of this error.

System Programmer Response: No response is necessary.

Problem Determination: Items 3, 17, 19.

APS976I THE DYNAMIC ALLOCATION FUNCTION WAS UNSUCCESSFUL FOR SYS1.IMAGELIB—SYSTEM COMPLETION CODE *system completion code*, DYNALLOC ERROR CODE *error code*, INFORMATION REASON CODE *information code*.

Explanation: The data set being processed was identified as requiring 3800 line-mode conversion. However, an ALLOCATE error occurred during the attempt to allocate SYS1.IMAGELIB.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Use the system completion code, error code, and information code issued by the ALLOCATE routine to determine an appropriate response. To interpret the completion code, SVC99 error code, and SVC99 information code, refer to *OS/390 MVS Authorized Assembler Services Guide*. After resolving the problem, resubmit the print job.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 14, 17, 20.

APS977I SYSTEM FUNCTION *open | close* FOR SYS1.IMAGELIB WAS UNSUCCESSFUL. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: The data set being processed was identified as requiring 3800 line mode conversion. However, an OPEN or CLOSE macro was unsuccessful. One of the following conditions caused this error:

- An OPEN macro request, which results in an SVC 19, was issued to open SYS1.IMAGELIB. After returning from the OPEN macro, PSF discovered that the Data Control Block (DCB) had not been opened.
- A CLOSE macro request, which results in an SVC 20, was issued to close SYS1.IMAGELIB. After returning from the CLOSE macro, PSF discovered that the Data Control Block (DCB) had not been not closed.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: For the system information associated with this error, see the additional console messages.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 4, 9, 17, 20.

**APS978I 3800-1 COMPATIBILITY MODE
PROCESSING FUNCTION IS NOT
SUPPORTED FOR THIS PRINTER.**

Explanation: The data set being processed was identified as requiring 3800-1 compatibility mode (3800 line-mode) conversion. However, PSF does not support the 3800 line-mode conversion function for the 3800 printer.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Ensure that data sets requiring 3800 line-mode conversion are routed to a printer other than the 3800. Otherwise, print the data set using JES in 3800-1 compatibility mode, or route it to a 3900 printer with the 3800 Compatibility for 3900 RPQ 8B3997 installed; or change APSUX04/APSUX14 so that conversion is never requested for print jobs running to a 3800.

System Programmer Response: Ensure that installation procedures are defined to print data sets requiring 3800 line-mode conversion on printers other than the 3800, or use JES in 38001 compatibility mode to print those data sets. If 3800 line-mode conversion is not desired for the data set, modify APSUX04/APSUX14 to request that no conversion be done for the data set.

Operator Response: Notify your system programmer. If installation procedures allow it, print the data set in 3800-1 compatibility mode. Otherwise, no response is necessary.

Problem Determination: Items 3, 17, 19.

**APS979I AN INVALID REQUEST FROM THE
LOGICAL RECORD EXIT WAS
DETECTED FOR LOGICAL RECORD
*logical record number.***

Explanation: An invalid request was returned by the logical record processing exit (APSUX04) during 3800 line-mode conversion.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Verify that recent changes have not caused an error in the logical record processing exit.

Operator Response: No response is necessary.

Problem Determination: Items 1, 2, 3, 17, 19, 26.

**APS980I THERE WAS A PREVIOUS ERROR
RETURNED FROM THE OPEN REQUEST
ON SYS1.IMAGELIB. NO PROCESSING
WILL BE DONE.**

Explanation: The data set being processed was identified as requiring 3800 line-mode conversion. However, the OPEN attempt on SYS1.IMAGELIB failed.

System Action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTEROR=QUIT was specified on the OUTPUT statement.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Examine the system codes and messages issued for the original OPEN error. APS977I was issued by PSF at the time of the original OPEN error. The system diagnostic message(s) will be in the area of the APS977I message on the console or in the console log.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 3, 17, 19.

**APS986I NO DOWNLOAD ROUTING RECORD
MATCHED FOR JOB (*jobname*),
DATASET (*data set name*).**

Explanation: The class, form name, or destination specified in the JCL for the data set does not match any of the routing records in the Download for OS/390 routing-control data set. Download for OS/390 cannot determine the remote system to which to route this data

set. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 releases the data set back to JES and requests that it be held by the system.

User Response: No response is necessary.

System Programmer Response: Consider adding a routing statement in the Download for OS/390 routing-control data set to match the data set's class, form name, or destination. After modifying the routing-control data set, stop the FSS and restart the Download for OS/390 FSAs to use the modified routing-control data set.

Operator Response: Release the held data set after the system programmer has modified the routing-control data set to add the class, destination, or form name of the data set. If the system programmer does not want to modify the routing-control data set, you can process the held data set by releasing it with a class, form name, or destination that matches an existing routing statement in the routing-control data set. For example, to release output group 2.1.1 of job 13 to class C:

```
$T 0 J13,OUTGRP=2.1.1,REL=SYS,Q=C
```

Problem Determination: None.

APS9871 TOTAL BYTES SENT DOES NOT MATCH TOTAL BYTES RECEIVED BY THE DOWNLOAD SERVER.

Explanation: A discrepancy exists between the number of bytes sent by Download for OS/390 and the number of bytes received by the target server. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 attempts to retransmit the data set according to the retry interval and retry number specified in the matching routing record of the Download for OS/390 routing-control data set. If retry is not requested or is not successful, Download for OS/390 releases the data set back to JES and requests that it be held by the system.

User Response: No response is necessary.

System Programmer Response: Ensure that TCP/IP is functioning correctly. If the problem persists, call the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: Items 1, 2, 17, 19.

APS9881 DOWNLOAD SENT *nnnn* BYTES TO *nnn.nnn.nnn.nnn*—JOB=*jobname* STEP=*jobstep* ID=*jobid*.

Explanation: A data set with the indicated number of bytes was transmitted to the remote system with the IP address indicated in the message. The job submitter requested that this message be sent to the user IDs specified in the NOTIFY keyword in the JCL for the data set. When the job submitter specifies the NOTIFY keyword, this message is sent also to the SYSLOG data set. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 verifies that all data was received by the server on the AIX system before purging the data set from the JES spool. No response is necessary.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS9891 DOWNLOAD SOCKET *xxxxxx* COMMAND FAILED FOR IPADDR=*nnn.nnn.nnn.nnn*, PORTNUM=*nnnn*, RETURN CODE=*nn*, ERRNO=*nnnn*.

Explanation: The named socket API call failed with the return code and error number indicated. The IP address and port number of the target remote system and server are indicated in the message.

If the message text contains the following values, then the command failed because the connection partner has closed the TCP/IP connection:

- *xxxxxx* is SEND BUFFER LENGTH, SEND BUFFER DATA, SEND TOTAL BYTES, or SEND CKPT BYTES.
- RETURN CODE = 0
- ERRNO = 0

Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 retransmits the data set according to the retry interval and retry number specified in the matching routing record of the Download for OS/390 routing-control data set. If retry is not requested or is not successful, Download for OS/390 releases the data set back to JES and requests that it be held.

User Response: No response is necessary.

System Programmer Response: To interpret the return code and error number in the message, refer to

TCP/IP for MVS: Application Programming Interface Reference (TCP/IP 3.2) or OS/390 eNetwork Communications Server: IP Application Programming Interface Guide (TCP/IP 3.4 and above). Ensure that the server with the IP address and port number indicated in the message is running. If the server is down, restart the server. You usually do not need to restart Download for OS/390.

When restarting the server, the administrator of the remote system should specify the same file systems to store files received from Download for OS/390. If the same file systems are not specified, transmission of the interrupted file restarts from the beginning of the file instead of from the checkpoint.

Operator Response: Inform your system programmer that this error occurred. Stop the Download for OS/390 FSS, and restart the FSAs if necessary.

Problem Determination: Items 1, 2, 17, 19.

APS990I INVALID KEYWORD (xxxxxx) SPECIFIED IN THE DOWNLOAD ROUTING-CONTROL DATASET. THE KEYWORD IS IGNORED.

Explanation: Download for OS/390 detected an invalid keyword in the Download for OS/390 routing-control data set. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 ignores the invalid keyword and continues processing the other keywords.

User Response: No response is necessary.

System Programmer Response: Correct the invalid keyword in the routing-control data set. To use the modified routing-control data set, stop the Download for OS/390 FSS and restart the FSAs.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None.

APS991I DOWNLOAD ROUTING RECORD NUMBER *nn* DOES NOT CONTAIN ALL THE REQUIRED KEYWORDS. THE RECORD IS IGNORED.

Explanation: A routing statement in the Download for OS/390 routing-control data set does not contain the required keywords. *nn* is the number of the statement in the routing-control data set; a statement consists of a series of keywords ending with a semicolon. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 ignores the routing statement and continues processing the other routing statements, if any.

User Response: No response is necessary.

System Programmer Response: Correct the invalid routing statement. Then, stop the Download for OS/390 FSS and restart the FSAs to use the modification.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None.

APS992I DOWNLOAD FACILITY INITIALIZED.

Explanation: The Download for OS/390 feature was initialized successfully. Refer to *PSF for OS/390: Download for OS/390* for more information about the Download for OS/390 feature.

System Action: The Download for OS/390 FSA is ready to receive data sets from the JES spool and transmit them to servers on remote systems.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS993I DOWNLOAD REQUEST CANCELLED. JOB=*jobname* STEP=*jobstep* ID=*jobid* AT *system-id*.

Explanation: The operator cancelled processing of the data set indicated in the message. The job submitter requested that this message be sent to the user IDs specified in the NOTIFY keyword in the JCL for the data set. When the job submitter specifies the NOTIFY keyword, this message is sent also to the SYSLOG data set. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 continues processing the next data set.

User Response: Consult the system operator to determine why the operator cancelled the data set.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS994I DOWNLOAD REQUEST MARKED UNPRINTABLE. JOB=*jobname* STEP=*jobstep* ID=*jobid* AT *system-id*.

Explanation: Download for OS/390 has determined that the data set identified in the message is not transmittable. The job submitter requested that this message be sent to the user IDs. When the job submitter specifies the NOTIFY keyword, this message

is sent also to the SYSLOG data set. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 releases the data set back to JES, and requests that the system hold it.

User Response: Consult the system operator to determine why the data set is being held.

System Programmer Response: No response is necessary.

Operator Response: See the associated messages to determine the correct action.

Problem Determination: None.

APS995I DOWNLOAD SOCKET xxxxxx COMMAND FAILED WITH RETURN CODE=nn, ERRNO=nnnn.

Explanation: The named socket API call failed with the return code and error number indicated. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action:

- If xxxxxx is INITAPI, the Download FSA may terminate. If the error occurs while Download for OS/390 is transmitting a data set, Download for OS/390 releases the data set back to JES and requests that it be held by the system.
- If xxxxxx is SOCKET, Download for OS/390 retransmits the current data set according to the retry interval and retry number specified in the matching routing record of the Download for OS/390 routing-control data set. If retry is not requested or is not successful, Download for OS/390 releases the data set back to JES and requests that it be held by the system.

User Response: No response is necessary.

System Programmer Response: To interpret the return code and error number in the message, refer to *TCP/IP for MVS: Application Programming Interface Reference* (TCP/IP 3.2) or *OS/390 eNetwork Communications Server: IP Application Programming Interface Guide* (TCP/IP 3.4 and above).

Operator Response: Inform your system programmer that this error occurred.

- If xxxxxx is INITAPI, start TCP/IP and then start Download for OS/390 again.
- If xxxxxx is SOCKET, stop the Download for OS/390 FSS and then restart the FSAs. Before restarting the FSAs, ensure that TCP/IP is running

and the communication controller between the MVS or OS/390 system and the remote system is online.

Problem Determination: Items 1, 2, 17, 19.

APS996I INVALID PARAMETER SPECIFIED FOR KEYWORD (xxxxxx) AT LINE NUMBER (nnn) IN THE DOWNLOAD ROUTING CONTROL DATASET. THE KEYWORD IS IGNORED.

Explanation: Download for OS/390 detected an invalid parameter in the Download for OS/390 routing-control data set. nnn is the number of the line (80-character record) in the routing-control data set. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 ignores the keyword associated with the invalid parameter and continues processing the other keywords.

User Response: No response is necessary.

System Programmer Response: Correct the invalid parameter in the routing-control data set. To use the modified routing control data set, stop the Download for OS/390 FSS and restart the FSAs.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None.

APS997I DOWNLOAD UNABLE TO TRANSMIT DATASET DUE TO INVALID IPADDRip-address.

Explanation: The ip-address in the message text is not a valid dotted decimal TCP/IP address, nor could the Get Host By Name TCP/IP Domain Name Server resolve the value to a dotted decimal address. Download for OS/390 detected this error. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

System Action: Download for OS/390 attempts to retransmit the data set according to the retry interval and retry number specified in the matching routing record of the routing-control data set. If retry is not requested or is not successful, Download for OS/390 releases the data set back to JES and requests that it be held by the system.

User Response: No response is necessary.

System Programmer Response: Correct the invalid parameter in the routing-control data set. To use the modified routing control data set, stop the Download for OS/390 FSS and restart the FSAs.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None

**APS998I THE LAST STATEMENT IN THE
DOWNLOAD ROUTING CONTROL DATA
SET WAS NOT PROPERLY
TERMINATED.**

Explanation: Download for OS/390 detected that the last statement in the routing-control data set was not terminated with a semicolon.

System Action: Download for OS/390 ignores the last statement and continues processing with the other valid statements.

User Response: No response is necessary.

System Programmer Response: Correct the invalid statement by specifying a terminating semicolon. Ensure all required keywords are specified. To use the modified routing-control data set, stop the Download FSS and restart the FSAs.

Operator Response: Inform your system programmer that this error occurred.

Problem Determination: None.

**APS1700I UNABLE TO LOAD USER MAPPING
TABLE APSRNTGM.**

Explanation: User mapping table APSRNTGM could not be loaded by use of link list search order.

System Action: The Font Library utility continues processing without a user mapping table.

User Response: Notify your system programmer.

System Programmer Response: If no user mapping table has been defined for your system, this message can be ignored. If a user mapping table has been defined for your system, determine why the table is not in link list search order. The user mapping table should be installed in the same data set as PSF and the Font Library utility.

Operator Response: No response is necessary.

Problem Determination: Items 2, 5, 8, 17.

**APS1701I NO DATA SETS TO
PROCESS—PROCESSING ENDED.**

Explanation: The JCL to run the Font Library utility does not contain any DD statements starting with *FONT*.

System Action: The Font Library utility terminates processing. No code pages or character sets are updated.

User Response: Identify all font libraries with DD names that start with *FONT*.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

**APS1702I PROCESSING COMPLETED FOR
RESOURCE *resource name*.**

Explanation: The code page or character set specified in the message was updated by the Font Library utility with new valid GRID data.

System Action: The Font Library utility continues processing.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

**APS1703I OLD GRID HEX VALUES: {FGID=*nnnn*
GCSGID=*nnnn* FONT WIDTH=*nnnn* |
CPGID=*nnnn* GCSGID=*nnnn*}.**

Explanation: The code page or character set specified in the message contained the specified GRID data before processing by the Font Library utility.

System Action: The Font Library utility continues processing.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

**APS1704I NEW GRID HEX VALUES: {FGID=*nnnn*
GCSGID=*nnnn* FONT WIDTH=*nnnn* |
CPGID=*nnnn* GCSGID=*nnnn*}.**

Explanation: The code page or character set specified in the message was updated by the Font Library utility, and contains the specified GRID data.

System Action: The Font Library utility continues processing.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS1705I PROCESSING COMPLETED FOR ALL DATA SETS.

Explanation: The Font Library utility has completed processing all the data sets specified in the JCL.

System Action: The Font Library utility is complete with all processing.

User Response: No response is necessary.

System Programmer Response: No response is necessary.

Operator Response: No response is necessary.

Problem Determination: None.

APS1706I NO AVAILABLE USER RANGE GRID VALUES FOR CODE PAGES.

Explanation: All user range CPGIDs have already been assigned to existing code pages. Insufficient user range CPGIDs are available to satisfy all the fonts on your system.

System Action: The Font Library utility terminates processing. Some code pages are not updated appropriately.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Notify your IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS1707I USER MAPPING TABLE APSRNTGM IS LOADED AND MAY BE USED BY APSRFLU TO UPDATE FONT GRID DATA.

Explanation: User mapping table APSRNTGM was loaded using the link list search order.

System Action: The Font Library utility continues processing, using the user mapping table.

User Response: Notify your system programmer.

System Programmer Response: If a user mapping table has been defined for your system, this message can be ignored. If a user mapping table is not intended to be used on your system, determine why the table is in link list search order.

Operator Response: No response is necessary.

Problem Determination: Items 2, 5, 8, 17.

APS1708I A SPECIFIED FONT LIBRARY HAS INVALID DATA SET ATTRIBUTES. NO PROCESSING HAS BEEN PERFORMED.

Explanation: The Font Library utility JCL contains a DD statement, starting with *FONT*, that has invalid attributes for a font data set. The data set either is not variable blocked, contains spanned records, does not contain carriage control, or is not a partitioned data set.

System Action: The Font Library utility terminates processing. No code pages or character sets are updated.

User Response: Update your JCL to specify only DD names that start with *FONT* and that are font data sets, and resubmit your job. If all DD names that start with *FONT* are font data sets, notify your system programmer.

System Programmer Response: Verify that all font data sets have the required font data set attributes. Change all data sets that do not have the proper attributes or do not use those data sets with PSF.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

APS1709I THE USER-MODIFIABLE NAME TO GRID TABLE IS UNUSABLE BECAUSE IT IS AMODE 31. NO PROCESSING HAS BEEN PERFORMED.

Explanation: The user-modifiable mapping table APSRNTGM is installed as AMODE 31, but the Font Library utility requires the table to be AMODE 24.

System Action: The Font Library utility terminates processing. No code pages or character sets are updated.

User Response: Notify your system programmer.

System Programmer Response: Relink-edit the user-modifiable mapping table APSRNTGM in the PSF linklib as AMODE=24.

Operator Response: No response is necessary.

Problem Determination: Items 2, 16, 17.

APS1710I PROCESSING ABORTED FOR RESOURCE *membername* IN DD *ddname*. CPD OR FND STRUCTURED FIELD IS MISSING.

Explanation: If the specified resource is a code page, the CPD structured field is not included in the code page data. If the specified resource is a character set, the FND structured field is not included in the character set. These structured fields are required for processing by the Font Library utility.

System Action: The Font Library utility terminates processing. Some code pages and character sets are not updated appropriately.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: If you created the structured fields for the font, correct the error and resubmit the job. For more information about the structured field, refer to *Font Object Content Architecture Reference*. If an IBM licensed program was used to create the structured fields for the font containing the error, verify that the input to the program was valid.

Operator Response: No response is necessary.

Problem Determination: Items 2, 15, 17.

**APS1711I NO AVAILABLE USER RANGE GRID
VALUES FOR CHARACTER SETS.**

Explanation: All user range FGIDs have already been assigned to existing character sets. Insufficient user range FGIDs are available to satisfy all the fonts on your system.

System Action: The Font Library utility terminates processing. Some character sets are not updated appropriately.

User Response: Inform your system programmer that this error occurred.

System Programmer Response: Notify your IBM Support Center.

Operator Response: No response is necessary.

Problem Determination: Items 2, 17.

Chapter 2. System Completion Codes and PSF Abend Reason Codes

Abend Processing and Restart

PSF issues messages to the operator to indicate its status during an abnormal termination (abend). When an abend occurs, PSF issues either APS050I, if it recognizes the system completion code provided by MVS or OS/390, or APS055I, if it does not recognize that code. In either case, PSF also issues APS051I, indicating that it is undergoing an abnormal termination. PSF gives additional diagnostic information on system completion codes it recognizes by listing a PSF abend reason code within the APS050I message. This chapter lists the system completion codes that PSF recognizes and describes the abend reason codes that can appear in the APS050I message.

If the abend reason code listed in the APS050I message represents a condition that can be corrected when the printer is started again, PSF automatically attempts to restart, provided the operating system supports this function. On an automatic restart, PSF issues APS038I to indicate that it is attempting to restart, and subsequently issues APS057I or APS053I, depending on whether the restart was successful. For more information on the automatic abend restart function, refer to *PSF for OS/390: Diagnosis*.

If PSF determines that a dump is to be taken, it requests a dump and subsequently issues either APS042I, APS044I, or APS054I, depending on how successful it was in taking that dump.

System Completion Codes

The system completion code is used in combination with the PSF abend reason code to determine an appropriate response to the abend. PSF recognizes the following system completion codes:

024/027 [PSF]

Explanation: The PSF FSS or FSA is terminated.

0A6 [PPCC]

Explanation: The Page Printer Communication Component is terminated.

PSF Abend Reason Codes

The PSF abend reason code entries in this chapter provide:

Explanation: The explanation gives more information about the condition that caused PSF to abend.

System Action: The system action specifies whether PSF will attempt to restart itself automatically, or continue to terminate.

System Programmer Response: If present, the system programmer response provides a suggested recovery action for the error condition.

Each abend reason code includes the PSF module that issued it. For a brief description of each module, refer to *PSF for OS/390: Diagnosis*, "Appendix A. Module Directory."

0004

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— The ESTAE macro failed to establish the ESTAE routine.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0008

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— The GETMAIN macro for PSF FSS-related control blocks failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

000C

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— An invalid parameter was specified on the MVS START command.

System Action: PSF processing terminates abnormally.

000D

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— The GETMAIN macro for below the 16MB line PSF FSS-related control blocks failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0010

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— The FSS-level FSI CONNECT request failed. A CONNECT request failure can occur if the JES timer expires.

System Action: PSF processing terminates abnormally.

System Programmer Response: To determine other reasons for the failure, check the system log for all related JES and system messages.

0012

Explanation: This abend is issued by module APSPFCON— The parameter specifying either FSS or FSA level was not passed to the module when APSPFCON was called.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0014

Explanation: This abend is issued by module APSPASI— An invalid parameter was specified on the MVS START command used to start the PSF address space.

System Action: PSF processing terminates abnormally.

0018

Explanation: This abend is issued by module APSPFSP— FREEMAIN for APSPNST failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance regarding this error code.

001C

Explanation: This abend is issued by modules APSPASI and APSAFSA— The ATTACH for the Notify subtask, APSPNST, failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0020

Explanation: This abend is issued by module APSPFSP— APSPFSP was dispatched to process an order other than a Stop FSS or Start FSA FSS level-order.

System Action: PSF processing terminates abnormally.

0024

Explanation: This abend is issued by module APSPNST— The FSI RELDS request failed. The return code is in the NCBNSTRC field in the APSPNCB control block.

System Action: PSF processing terminates abnormally.

0028

Explanation: This abend is issued by module APSPNST— The FSI CHKPT request failed. The return code is in the NCBNSTRC field in the APSPNCB control block.

System Action: PSF processing terminates abnormally.

002C

Explanation: This abend is issued by module APSPNST— The SMFWTM macro failed. The return code is in the NCBNSTRC field in the APSPNCB control block.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0030

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— The FSS-level FSI DISCONNECT request failed.

System Action: PSF processing terminates abnormally.

0032

Explanation: This abend is issued by module APSPDCON— The parameter that specifies either the FSS or FSA level was not passed to the module when APSPDCON was called.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0034

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— The FREEMAIN macro for the FSS-level PSF control blocks failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance regarding this error code.

0038

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— The ESTAE macro to cancel the PSF address space ESTAE routine failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

003C

Explanation: This abend is issued by module APSPDPDS— The APSPPNST subtask was dispatched for termination and terminated with nonzero completion code.

System Action: PSF processing terminates abnormally.

0040

Explanation: This abend is issued by module APSPPNST— Module APSPPNST was dispatched with an invalid code in the NCBNSTRC field in the APSPNCB control block.

System Action: PSF processing terminates abnormally.

0044

Explanation: This abend is issued by modules APSPDPDS/APSAFSA— The DETACH macro to detach the Notify subtask (APSPPNST) failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0048

Explanation: This abend is issued by module APSPPAS1— An invalid subsystem name was provided on the MVS START command used to start the PSF address space.

System Action: PSF processing terminates abnormally.

004C

Explanation: This abend is issued by module APSPPNST— An invalid APSPFSAQ control block was passed to the Notify subtask (APSPPNST).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0050

Explanation: This abend is issued by module APSPPNST— The first unprocessed stacked Page Pending Queue (PPQ) entry is not a Begin Data Set (BDS) structured field entry. For more information about the BDS structured field, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0054

Explanation: This abend is issued by module APSPPFSP— IDENTIFY issued for APSPPFSA entry failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0058

Explanation: This abend is issued by modules APSPPFSP/APSPDCM— An abend occurred in the Notify subtask, APSPPNST.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

005C

Explanation: This abend is issued by module APSPPNST— An End Data Set (EDS) structured field entry was not found for a Begin Data Set (BDS) structured field stacked Page Pending Queue (PPQ) entry. For more information about the BDS and EDS structured fields, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF processing terminates abnormally.

0060

Explanation: This abend is issued by module APSPPNST— The data set ID for the Begin Data Set (BDS) structured field Page Pending Queue (PPQ) entry does not match the data set ID for the corresponding End Data Set (EDS) structured field PPQ entry.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0064

Explanation: This abend is issued by module APSPPNST— The stack-queue locking protocol was violated. The stacked Page Pending Queue (PPQ) was acquired while APSPPNST was holding the queue in a locked state.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0068

Explanation: This abend is issued by module APSPPNST— An invalid Page Pending Queue (PPQ) entry type was found in the stacked PPQ.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0071

Explanation: This abend is issued by module APSPPFSP— No free FSAE is available.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0072

Explanation: This abend is issued by module APSPPFSP— APSPPFSP DETACH APSPPNST failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0073

Explanation: This abend is issued by module APSPPFSP— APSPPFSP DETACH APSPPFSA failed, and the NODUMP option was specified.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0074

Explanation: This abend is issued by module APSPPNST— A TIME (SVC11) macro to get the time and date failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0075

Explanation: This abend is issued by module APSPPFSP— The APSPPNST subtask terminated abnormally.

System Action: PSF processing terminates abnormally.

0076

Explanation: This abend is issued by module APSPPFSP— APSPPFSP ATTACH FSA failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0078

Explanation: This abend is issued by modules APSPASI/APSAFSA— The IDENTIFY macro for the APSPPNST entry point failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0079

Explanation: This abend is issued by module APSPPFSP— The SDUMP macro issued an invalid return code during the processing of the Stop FSS order with a DUMP option specified.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

007A

Explanation: This abend is issued by module APSPPFSP— A Stop FSS order with ABEND and DUMP options specified was received.

System Action: PSF processing terminates abnormally.

007B

Explanation: This abend is issued by module APSPPFSP— A Stop FSS order with ABEND and NODUMP options specified was received.

System Action: PSF processing terminates abnormally.

007F

Explanation: This abend is issued by module APSPPFSP— APSPPFSP ATTACH NST failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0080

Explanation: This abend is issued by module APSLINIT— The library access system interface (LASI) was invoked to initialize the LASI environment, but the LASI environment was already initialized. The CCBLSOCP field in the common control block (CCB) was not zero.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0081

Explanation: This abend is issued by module APSLINIT— The library access system interface (LASI) was invoked to initialize the LASI environment. However, the device control block (APSJDEVB) was not available; the CCBPJDVP field in the common control block (CCB) was zero.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0082

Explanation: This abend is issued by module APSLINIT— The library access system interface (LASI) was invoked to initialize the LASI environment. The ID for control block APSJDEVB is invalid. The ID must be 'JDE'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

00C0

Explanation: This abend is issued by module APSCTERM— APSCTERM encountered an error while attempting to use the PGFREE macro. An abend occurs if a nonzero return code is issued by the PGFREE macro. The PGFREE macro must be executed against the Device Manager control block storage and the PCI appendage (APSCPCIA).

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

00C1

Explanation: This abend is issued by module APSCESTA— APSCESTA encountered an error while attempting to page free storage. An abend occurs if the PGFREE macro issues a nonzero return code. The PGFREE macro must be executed against the Device Manager control block storage and the PCI appendage (APSCPCIA).

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

00D2

Explanation: This abend is issued by module APSJCL— An SJF FIND request failed while locating the default output statement.

System Action: PSF processing terminates abnormally.

00D3

Explanation: This abend is issued by module APSJCL— An SJF FIND request failed while locating the default output statement.

System Action: PSF processing terminates abnormally.

00D4

Explanation: This abend is issued by module APSJCL— An SJF RETRIEVE request occurred while obtaining the keyword parameters.

System Action: PSF processing terminates abnormally.

00D5

Explanation: This abend is issued by module APSJCL— An invalid matrix pointer was received as a parameter.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

00D6

Explanation: This abend is issued by module APSJCL— The SJF parameter and the matrix lengths do not match.

System Action: PSF processing terminates abnormally.

00D7

Explanation: This abend is issued by module APSJGSWB— A failure in an SJF GETSWB request occurred.

System Action: PSF processing terminates abnormally.

System Programmer Response: The DIA_GETSWB_REAS field contains the invalid reason code. This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0100

Explanation: This abend is issued by module APSPFFSA or APSKFSA— The GETMAIN macro for PSF FSA-related control blocks failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0102

Explanation: This abend is issued by module APSPFFSA or APSKFSA— The GETMAIN macro for below the 16MB line PSF FSA-related control blocks failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0104

Explanation: This abend is issued by module APSPPFSA— The dynamic allocation of the device to be managed by the FSA failed.

System Action: PSF processing terminates abnormally.

0106

Explanation: This abend is issued by module APSPPFSA— The printer failed to initialize.

System Action: PSF processing terminates abnormally.

0107

Explanation: This abend is issued by module APSPPFSA— The printer failed to initialize, either because device contact is lost, or because the device is inoperative as an IPDS printer. This error is detected when PSF is obtaining initial printer information.

System Action: PSF processing terminates abnormally.

0108

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The FSA-level FSI CONNECT request failed.

System Action: PSF processing terminates abnormally.

010A

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The GETMAIN macro for the FSI area failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

010C

Explanation: This abend is issued by module APSPPFSA— The FSI SEND request failed. The SEND request was to notify the Job Entry Subsystem (JES) that FSA initialization was not successful because the device was not available.

System Action: PSF processing terminates abnormally.

010D

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The GETMAIN macro for above the 16MB line PSF FSA-related control blocks failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

010E

Explanation: This abend is issued by module APSPSEND— The FSI SEND request failed. The SEND request was to notify the Job Entry Subsystem (JES) of either an intervention-required or an intervention-cleared condition.

System Action: PSF processing terminates abnormally.

010F

Explanation: This abend is issued by module APSPPFSA or APSKFSA— FSA initialization failed during FSA restart processing.

System Action: PSF processing terminates abnormally.

0110

Explanation: This abend is issued by module APSPPFSA— The device was not available, and the write-to-operator message informing the operator of the situation failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0112

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The GETMAIN macro for below the 16MB line PSF FSA-related control blocks failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0114

Explanation: This abend is issued by module APSPPIFA or APSKIFA— The APSIBLD macro to initialize the record resource block (RRB) interface for Page Printing Writer Document Processor failed.

System Action: PSF processing terminates abnormally.

0116

Explanation: This abend is issued by module APSPPDVP or APSKDVP— The FSI Release data set request failed.

System Action: PSF processing terminates abnormally.

0118

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The FSI SEND request failed. The FSI SEND request was to notify the Job Entry Subsystem (JES) that the PSF FSA initialization was not successful.

System Action: PSF processing terminates abnormally.

011C

Explanation: This abend is issued by module APSPPFAC— Module APSPORD dispatched the APSPPFAC routine for an invalid order.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0120

Explanation: This abend is issued by module APSPSNDR— An FSI SEND request from PSF failed. The send request was a response to an FSI order from JES.

System Action: PSF processing terminates abnormally.

0122

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The FREEMAIN macro for the subpool kept across restarts failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance regarding this error code.

0124

Explanation: This abend is issued by module APSPPGDS— The FSI GETDS request to acquire the data set failed.

System Action: PSF processing terminates abnormally.

0128

Explanation: This abend is issued by module APSPPDVP— The APSIBLD macro to get a data set message record resource block (RRB) failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

012C

Explanation: This abend is issued by module APSPPIPER— APSPPIPER sent a record to Document Processor in the APSIPUT macro for the current data set. Document Processor issued an invalid return code. The return code is in the SABFSARC in the APSFSAB control block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0130

Explanation: This abend is issued by module APSPDPSP or APSKDSP— An FSI GETREC request failure occurred because no buffers were available. This situation occurs only if a logic error is in APSPDPSP or APSKDSP, Job Entry Subsystem (JES), or Document Processor. For the specific reason for failure, see GLRFLGS1 in the IAZFSIP control block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0134

Explanation: This abend is issued by module APSPDPSP or APSKDSP— An FSI FREEREC request failed. The return code is in the SABFSARC in the APSFSAB control block.

System Action: PSF processing terminates abnormally.

0138

Explanation: This abend is issued by module APSPPODR or APSKODR— APSPPODR or APSKODR dispatched APPSPDVP to process an invalid order.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

013C

Explanation: This abend is issued by module APSPPODR or APSKODR— The SDUMP macro issued an invalid return code.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0140

Explanation: This abend is issued by module APSPPODR or APSKODR— A Stop Device order was received with ABEND and NODUMP options specified.

System Action: PSF processing terminates abnormally. No system dump is generated for the abend.

0144

Explanation: This abend is issued by module APSPPDCM— An invalid order was detected by APPPDCM.

System Action: PSF processing terminates abnormally.

0146

Explanation: This abend is issued by module APSPPDVP— Dynamic allocation of storage failed.

System Action: PSF processing terminates abnormally.

0148

Explanation: This abend is issued by module APSPPDCM— The Page Pending Queue (PPQ) stacked queue was acquired while APSPPDCM had exclusive use of it.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

014C

Explanation: This abend is issued by module APSPPDCM— The FSI SEND request failed. The return code is in the SABFSARC in the APSFSAB control block.

System Action: PSF processing terminates abnormally.

0150

Explanation: This abend is issued by module APSPPODR— The Stop Device order with ABEND and DUMP options was received.

System Action: PSF processing terminates abnormally.

0154

Explanation: This abend is issued by module APSPDCM— An FSI RELDS request failed. The return code is in the SABFSARC field of the APSFSAB control block.

System Action: PSF processing terminates abnormally.

0158

Explanation: This abend is issued by module APSPPFAC— A Stop Device order was received with ABEND and NODUMP options specified.

System Action: PSF processing terminates abnormally. No system dump is generated for the abend.

015C

Explanation: This abend is issued by module APSPPFSA— The dynamic deallocation of the device being managed by FSA failed.

System Action: PSF processing terminates abnormally.

0160

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The FSA-level FSI DISCONNECT request failed.

System Action: PSF processing terminates abnormally.

0164

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The FREEMAIN macro for the FSA-level PSF control blocks failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance regarding this error code.

0168

Explanation: This abend is issued by module APSPPTFA— An APSIDEQ macro to terminate the resource record block (RRB) interface for Page Printing Writer Document Processor failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

016C

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The write-to-operator message failed. The message was to notify the operator that the PSF FSA initialization was unsuccessful.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0170

Explanation: This abend is issued by module APSPPGDS— The TIME (SVC11) macro to get the time and date failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0174

Explanation: This abend is issued by module APSPPODR— A Stop FSA order was received with ABEND and DUMP options specified.

System Action: PSF processing terminates abnormally.

0178

Explanation: This abend is issued by module APSPPODR or APSKODR— A Stop FSA FSI order was received with ABEND and NODUMP options specified.

System Action: PSF processing terminates abnormally. No system dump is generated for the abend.

017C

Explanation: This abend is issued by module APSPPCNP— The STIMERM CANCEL request failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0180

Explanation: This abend is issued by module APSPNPR— The timer ID that was passed to the STIMERM exit routine when the timer expired did not match any timer ID returned when the STIMERM was issued.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible PSF or MVS logic error. For assistance related to this error code, consult your service representative in the IBM Support Center, or use your electronic link with IBM service.

0181

Explanation: This abend is issued by module APSPNPR— The acquire interval timer expired before connection with the printer was successful.

System Action: PSF issues message APS939I. PSF processing terminates abnormally.

System Programmer Response: See message APS939I.

0184

Explanation: This abend is issued by module APSPPFAC— An FSI SEND request failed.

System Action: PSF processing terminates abnormally.

0188

Explanation: This abend is issued by module APSPDCM— No repositioning entry was found for the data set that spans the committed page counter. The minimum entry of a Begin Data Set (BDS) entry should exist.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

018C

Explanation: This abend is issued by module APSPDPS— An FSI GETREC request failed. The return code is in the SABFSARC in the APSPFSAB control block.

System Action: PSF processing terminates abnormally.

0190

Explanation: This abend is issued by module APSPDCM— The APSIPUT macro to free the first data set message record resource block (RRB) failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0194

Explanation: This abend is issued by module APSPDVP— Page Pending Queue (PPQ) entries still exist, even though the device was stopped.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0198

Explanation: This abend is issued by module APSPPFAC— The Stop Device order was received with ABEND and DUMP options specified.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

019C

Explanation: This abend is issued by module APSPPTFA— The first record resource block (RRB) on the RRB stack was not the Page Printing Writer Document Processor RRB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01A0

Explanation: This abend is issued by module APSPPTFA— The Page Printing Writer Document Processor record resource block (RRB) was not the only RRB on the RRB stack after the termination of the PSF FSA.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01A4

Explanation: This abend is issued by module APSPPODR— An invalid operator-intervention type was specified in the Operator Intervention FSA order.

System Action: PSF processing terminates abnormally.

01A8

Explanation: This abend is issued by module APSPPGDS or APSKDVP— An APSJCL logic error occurred during the processing of the COPIES JCL keyword. The copy count was not specified.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01AC

Explanation: This abend is issued by module APSPDCM or APSKDSP— A restart Page Pending Queue (PPQ) entry is not a valid PPQ entry type.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01B0

Explanation: This abend is issued by module APSPDCM— APSPDCM was called by module APSPFAC to process an Operator Intervention order. The device, however, was not stopped.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01B4

Explanation: This abend is issued by module APSPDCM— An invalid intervention combination was specified by the Operator Intervention FSI order.

System Action: PSF processing terminates abnormally.

01B8

Explanation: This abend is issued by module APSPDCM— The Begin Data Set (BDS) entry for the data set that spans the committed page counter could not be found in the stack queue.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01BA

Explanation: This abend is issued by module APSPDCM— The Begin Transmission (BTM) entry for the data set that spans the committed page counter could not be found in the stack queue.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01BB

Explanation: This abend is issued by module APSPDDCM—Not enough storage available for triplet data.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

01BC

Explanation: This abend is issued by module APSPPFAC— The SDUMP macro issued an invalid return code during the processing of the Stop Device order with the DUMP option specified.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

01C0

Explanation: This abend is issued by module APSPDVP— The STIMER macro failed to set a timer.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

01C4

Explanation: This abend is issued by module APSPDDCM— The APSIDEQ macro to dequeue the message record resource block (RRB) failed. No RRBs were on the stack that was to be dequeued.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01C8

Explanation: This abend is issued by module APSPPTFA— An APSIPUT call to dequeue the Job Entry Subsystem (JES) message record resource block (RRB) failed.

System Action: PSF processing terminates abnormally.

01CC

Explanation: This abend is issued by module APSPDOT— A SEND FSI request failed. The SEND was issued to notify the Job Entry Subsystem (JES) that a data set was at the committed page counter.

System Action: PSF processing terminates abnormally.

01D0

Explanation: This abend is issued by module APSPDOT— Either the Page Pending Queue (PPQ) entry pointer passed by APSQDEQ does not point to a Begin Data Set (BDS), Begin Transmission (BTM), or End Data Set (EDS) entry, or the BDS pointed to should not be tracked.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01D4

Explanation: This abend is issued by module APSPPFSA or APSKFSA— The input parameter does not point to the APSPFSAE control block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01D8

Explanation: This abend is issued by module APSPPFAC— A Stop FSA order was received in which the ABEND and DUMP options were specified.

System Action: PSF processing terminates abnormally.

01DC

Explanation: This abend is issued by module APSPPFAC— A Stop FSA order was received in which the ABEND and NODUMP options were specified.

System Action: PSF processing terminates abnormally.

01F0

Explanation: This abend is issued by module APSPPFAC— During the processing of the Stop FSA order, the SDUMP macro issued an invalid return code in which DUMP options were specified.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

01F4

Explanation: This abend is issued by module APSPTFA— An APSIPUT macro to free the Job Entry Subsystem (JES) message buffers failed.

System Action: PSF processing terminates abnormally.

01F8

Explanation: This abend is issued by module APSPPIFA or APSKIFA— Initialization for the Job Entry Subsystem (JES) interrupt-message record resource block (RRB) build failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is

processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

01FC

Explanation: This abend is issued by module APSPDVP— APSPDVP was in job header processing, but Document Processor set a flag indicating otherwise.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01FD

Explanation: This abend is issued by module APSPDSP— APSPDSP was specifically waiting for an FSI order, and it was dispatched for work.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01FE

Explanation: This abend is issued by module APSPDCM— The APSIPUT macro failed in an attempt to free the messages for the second record resource block (RRB).

System Action: PSF processing terminates abnormally.

01FF

Explanation: This abend is issued by module APSPDVP— APSPDVP was in job trailer processing, but Document Processor set a flag indicating otherwise.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0200

Explanation: This abend is issued by module APSCINIT— APSCINIT was called to initialize Device Manager, but the page-fixed storage area was already assigned. APSCINIT interprets this as a redundant call to APSCINIT.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0201

Explanation: This abend is issued by module APSCINIT— APSCINIT could not get storage for the Device Manager page-fixed storage area. This error was detected for a channel-attached device, and the region is probably too small.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0202

Explanation: This abend is issued by module APSCINIT— APSCINIT encountered an error while attempting to page-fix storage. An abend occurs if the PGFIX macro returns codes other than 0 or 8. An abend also occurs if a completion code is issued during the attempt to wait for the page fix, indicating that the attempt was unsuccessful.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0203

Explanation: This abend is issued by module APSCINIT— APSCINIT could not find the printer device DD name in the task I/O table (IEFTIOT1). The printer's DD name should be placed in the table allocated to the device.

This abend may have occurred for a printer that was

added to the I/O configuration by use of the Dynamic Reconfiguration Management (DRM) function of MVS 4.2.0 or above, and JES2 or JES3 was not aware of the newly added device.

System Action: PSF processing terminates abnormally.

System Programmer Response: If DRM is being used to update the I/O configuration, ensure that the newly added device has been defined to JES2 or JES3. For JES2 4.2.0 or above, use the \$T or \$ADD command. For JES3, do a restart.

0204

Explanation: This abend is issued by module APSCINIT— The SETLOCK macro issued a nonzero return code notifying APSCINIT that it was unable to get or release the local lock while working with the task control block/data extent block (TCB/DEB) queue.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0205

Explanation: This abend is issued by module APSCINIT— A DEBCHK macro failed while APSCINIT was attempting to add the data extent block (IEZDEB) to the data extent block (DEB) table.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0206

Explanation: This abend is issued by module APSCINIT— A failure occurred while APSCINIT was trying to make the address space nonswappable. This is done only in direct-printing mode. A return code was issued while waiting for the SYSEVENT TRANSWAP macro, indicating that the attempt to make the address space nonswappable was unsuccessful.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0208

Explanation: This abend is issued by module APSCINIT— For 3800 channel-attached devices, the GETMAIN for the OBR record failed. For the 3827 or 3835 page printer, the GETMAIN for the OBR record or the NACK buffer failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0209

Explanation: This abend is issued by module APSCINIT— APSCINIT encountered a GETMAIN failure for a Data Extent Block (DEB).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

020A

Explanation: This abend is issued by module APSCINIT— APSCINIT was called to initialize Device Manager and detected an invalid attachment type specification in the Common Control Block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

020B

Explanation: This abend is issued by module APSCINIT— APSCINIT detected a UCB unit type value that is not supported by PSF. The value of UCBUNTYP or UCBDVCLS was neither X'0E', X'0F', nor X'08'.

System Action: PSF processing terminates abnormally.

020C

Explanation: This abend is issued by module APSCINIT— APSCINIT issued the sense ID CCW and it failed, or it issued the read configuration data CCW and it failed. This probably indicates that an I/O error was encountered when the sense ID or the read configuration data CCW was sent to the printer.

System Action: PSF processing terminates abnormally.

System Programmer Response: To determine the I/O error, check the MVS system console log or run the EREP report for the device. Notify your system engineer that a hardware error may have occurred.

020D

Explanation: This abend is issued by module APSCINIT— The TCP/IP PORTNO is greater than 32767.

System Action: PSF processing terminates abnormally.

System Programmer Response: Specify a value between 5001 and 32757 for the PORTNO parameter on the PRINTDEV statement in the start up procedure for PSF.

0211

Explanation: This abend is issued by module APSCTERM— APSCTERM detected an invalid attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be 'C', 'S', or 'T'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0212

Explanation: This abend is issued by module APSCTERM— The SETLOCK macro returned a nonzero return code notifying APSCTERM that it was unable to get or release the local lock while working with the TCB/DEB (task control block—data extent block) queue.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0213

Explanation: This abend is issued by module APSCTERM— DEBCHK failed while APSCTERM was attempting to delete the data extent block (DEB) from the DEB table.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains Data Management macros to determine why the macro failed or returned unexpected results.

0214

Explanation: This abend is issued by module APSCTERM— APSCTERM encountered an error while attempting to make the address space swappable. This is done only in direct-printing mode. The SYSEVENT OKSWAP macro issued a return code while attempting to make the address space swappable; this indicates that the attempt was unsuccessful.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0216

Explanation: This abend is issued by module APSCBMGR— APSCBMGR (the buffer manager module) detected a request that was inconsistent with the buffer state. One of the following conditions could exist:

- An invalid function was requested.
- An attempt was made to allocate a block larger than the buffer.
- An attempt was made to allocate a block in which the specified minimum was greater than the length requested.
- The specified minimum was greater than 0, and IDAWS were also provided.
- An attempted assign would have resulted in a set of IDAWS that referenced more than 8K bytes.
- An attempt to free a block could cause the free-space size to exceed the buffer length.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0218

Explanation: This abend is issued by module APSCCDEV— APSCCDEV detected an invalid attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be 'C', 'S', or 'T'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0219

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected a UCB unit type value that is not supported by PSF; the UCBUNTYP field had a value that was neither X'0E' nor X'0F'.

System Action: PSF processing terminates abnormally.

021A

Explanation: This abend is issued by module APSCCDEV— After multiple attempts, APSCCDEV was unable to refresh the printer characteristics. Failure was probably due to I/O errors encountered on the XOH-RPI, XOH-OPC, or STM command.

System Action: PSF processing terminates abnormally.

System Programmer Response: The printer is probably experiencing I/O errors. Check the printer to ensure that it is working correctly. If the printer is working correctly, restart PSF. If the printer has errors, correct them and restart PSF. If the printer errors persist, you may have to perform an IML of the printer.

021B

Explanation: This abend is issued by module APSCCDEV— APSCCDEV was called before TCP/IP was initialized by APSNINIT. APSNINIT must be called before APSCIPRT.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. For assistance with this error code, consult your service representative in the IBM support Center, or use your electronic link with IBM service.

0220

Explanation: This abend is issued by module APSCADJR— The DATALNG parameter that was passed to APSCADJR was invalid. The DATALNG parameter was too large. Valid values for this parameter range from 0 to 2048. If you are adding a Write Text, Write Image, or Load Font command, the value must range from 0 to X'7FFFFFFF'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0222

Explanation: This abend is issued by module APSCADJR— A Transfer-in-Channel (TIC) command parameter was passed to APSCADJR. An attempt was made to add the TIC command, but APSCADJR does not support TIC commands.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0223

Explanation: This abend is issued by module APSCADJR— The DATALNG parameter that was passed to APSCADJR was invalid. The DATALNG parameter in the channel command was negative. Valid values for this parameter range from 0 to 2048. If you are adding a Write Text, a Write Image, or a Load Font command, the value must be from 0 to X'7FFFFFFF'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0224

Explanation: This abend is issued by module APSCADJR— APSCADJR detected two consecutive calls with different nonzero transaction IDs without an intervening call to APSCWRT.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0225

Explanation: This abend is issued by module APSCADJR— APSCADJR detected an invalid printer family specification in the CCB; the field CCBCFMLY must have a valid value.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0226

Explanation: This abend is issued by module APSCADJR— APSCADJR requested buffer space from APSCBMGR, but the request failed. APSCADJR then attempted to recover buffer space, but this request also failed, probably because of a programming error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0227

Explanation: This abend is issued by module APSCADJR— APSCADJR was called while in error state. This should not occur.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0228

Explanation: This abend is issued by module APSCADJR— APSCADJR requested buffer space from APSCBMGR, but the request failed. APSCADJR then attempted to recover buffer space using two recovery routines, but this request also failed, probably because of a storage shortage.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0230

Explanation: This abend is issued by module APSCRDRV— APSCRDRV was called while I/O was still in progress. APSCRDRV should be called only during I/O error recovery, to redrive an inactive channel program.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0231

Explanation: This abend is issued by module APSCRDRV— APSCRDRV received an invalid parameter specifying the point at which to begin the redrive. The only valid parameters are 0, 1, and 2. APSCRDRV should be called only during an I/O error recovery, to redrive an inactive channel program.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0232

Explanation: This abend is issued by module APSCRDRV— APSCRDRV detected an invalid printer family specification in the CCB. The field CCBCFMLY must have a valid value.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0233

Explanation: This abend is issued by module APSCRDRV— APSCRDRV was called while not in error state. This is a program logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0234

Explanation: This abend is issued by module APSCOPCI— The 42x4 printer has an unsupported EC level.

System Action: PSF processing terminates abnormally.

System Programmer Response: Upgrade the 42x4 microcode to a supported level.

0235

Explanation: This abend is issued by module APSCOPCI— APSCOPCI could not get storage for the multiple output bin array or the Setup ID area.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0236

Explanation: This abend is issued by module APSCINFO or APSCOPCI— APSCINFO or APSCOPCI could not get storage for the Device Attribute Table input bin information entry.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0237

Explanation: This abend is issued by module APSCINFO— APSCINFO detected a printer that does not support the define user area (DUA) printer command while the user printable area (UPA) is in effect. This abend can occur if the SYSAREA is enabled and you are attempting to use a nonguaranteed printer. For more information about these areas, refer to *Print Services Facility: Security Guide*.

System Action: PSF processing terminates abnormally.

0238

Explanation: This abend is issued by module APSCINFO— APSCINFO detected an invalid printer family specification in the CCB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0239

Explanation: This abend is issued by module APSCOPCI— At device initialization, APSCOPCI detected in the OPC record that the printer was unable to detect the media size loaded in the printer. This abend occurred because of a hardware failure in the printer's media-size sensors.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: If the printer has removable paper cassettes or trays, ensure that the cassettes or trays are fully inserted into the printer.

023A

Explanation: This abend is issued by module APSCOPCI— APSCOPCI detected a two-channel switch configuration that is not supported by PSF. Any configuration that allows loosely coupled switching to actively occur causes this abend.

System Action: PSF processing terminates abnormally.

023B

Explanation: This abend is issued by module APSCSTMI— The printer does not support the DC/1 function set required by IPDS.

System Action: PSF processing terminates abnormally.

023C

Explanation: This abend is issued by module APSCOPCI— The Unit Base returned in the XOA Obtain Printer Characteristic acknowledge reply was not X'00'.

System Action: PSF processing terminates abnormally.

023D

Explanation: This abend is issued by module APSCSTMI or APSCOPCI— APSCSTMI or APSCOPCI detected that coded fonts were not designated as supported in the Sense, Type, and Model acknowledge reply. Or, APSCOPCI detected that symbol sets were not designated as supported in the Obtain Printer Characteristics acknowledge reply.

System Action: PSF processing terminates abnormally.

023E

Explanation: This abend is issued by module APSCSTMI— APSCSTMI detected that neither PT/1, PT/2, nor PT/3 was designated as supported by the Sense, Type, and Model acknowledge reply.

System Action: PSF processing terminates abnormally.

023F

Explanation: This abend is issued by module APSCOPCI— APSCOPCI could not get storage for the Selectable Medium Modification information entry.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0240

Explanation: This abend is issued by module APSCSTMI— APSCRSET was called while I/O activity was still in progress.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0241

Explanation: This abend is issued by module APSCRSET— APSCRSET detected an invalid attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be 'C', 'S', or 'T'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0242

Explanation: This abend is issued by module APSCOPCI—The actual medium presentation space width, actual medium presentation space length, Xm extent of the physical printable area in L-units, or Ym extent of the physical printable area in L-units returned on the X'0A' Obtain Printer Characteristics acknowledge reply was X'0000'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error in the microcode of the printer. Consult your hardware service representative. This is *not* a PSF logic error.

0243

Explanation: This abend is issued by module APSCOPCI—The Printable-Area Self-Defining field was not in the XOA Obtain Printer Characteristics acknowledge reply. Thus no input bins were defined.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error in the microcode of the printer. Consult your hardware service representative. This is *not* a PSF logic error.

0244

Explanation: This abend is issued by module APSCOPCI—There were no enabled non-inserter input bins defined in the Printable-Area Self-Defining field that was returned in the XOA Obtain Printer Characteristics acknowledge reply.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a configuration error at the printer. A non-inserter input bin must be enabled.

0245

Explanation: This abend is issued by module APSOCPIC—APSCOPCI detected that PSF was connected to the printer with an intermediate device of either DPF or RPM3, and the printer was in automatic resolution mode.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the printer was in automatic resolution mode and that PSF was connected to the printer via DPF or RPM3. DPF and RPM3 do not support a printer in automatic resolution mode. Switch the printer out of automatic resolution mode.

0248

Explanation: This abend is issued by module APSCOPCI— APSCOPCI could not get storage for a registration ID link list element.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0249

Explanation: This abend is issued by module APSCOPCI or APSCRPII— APSCOPCI or APSCRPII could not get storage for a Group Operation Link List element or subelement.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is

processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0250

Explanation: This abend is issued by module APSCCOMP— The last Channel Command Word (CCW) executed was neither a NOP CCW, a SIB CCW, nor a READ CCW.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

025A

Explanation: This abend is issued by module APSCNORS—The RESPTIME timer expired before a response was received from the printer when NORESP=TERMINATE was specified on the PRINTDEV statement.

System Action: This abend is preceded by message APS940I with *prtnnnn* identifying the FSA for which this occurred. The FSA for the printer is terminated.

System Programmer Response: Determine why the printer is not responding and correct the problem. Then restart the FSA.

0260

Explanation: This abend is issued by module APSCCLR— APSCCLR printed too many blank pages during a nonprocess runout (NPRO). The failure may be due to an error in the microcode updating the printer counters; or it may have occurred because the Forward Spacing flag was left on during the NPRO.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0261

Explanation: This abend is issued by module APSCCLR— APSCCLR detected an invalid input parameter for a channel-attached printer. The function parameter was not NPRO, PBD, or NOFUNCTION.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0262

Explanation: This abend is issued by module APSCCLR— APSCCLR detected an invalid attachment type in the CCBCTYPE field of the common control block (CCB). The value must be 'C', 'S', or 'T'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0263

Explanation: This abend is issued by module APSCCLR— APSCCLR was called with an invalid input parameter.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0264

Explanation: This abend is issued by module APSCCLR— APSCCLR was called for a printer failure with an invalid action code '22' sense code for a TCP/IP connection.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0270

Explanation: This abend is issued by module APSCSNA— APSCSNA was called while PSF was driving a channel-attached printer. APSCSNA is used only for Systems Network Architecture-attached printers. This is probably a Device Manager logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0271

Explanation: This abend is issued by module APSCSNA— APSCSNA STRTPCC function was invoked at a time when the PSF state was invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0272

Explanation: This abend is issued by module APSCSNA— APSCSNA ENDPCC function was invoked at a time when the PSF state was invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0273

Explanation: This abend is issued by module APSCSNA— APSCSNA ESTBESS function was invoked at a time when the PSF state was invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0274

Explanation: This abend is issued by module APSCSNA— APSCSNA HALTSESS function was invoked at a time when the PSF state was invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

0275

Explanation: This abend is issued by module APSCSNA— APSCSNA SEND function was invoked at a time when the PSF state was invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0276

Explanation: This abend is issued by module APSCSNA— APSCSNA RECEIVE function was invoked at a time when the PSF state was invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0277

Explanation: This abend is issued by module APSCSNA— APSCSNA SESSSYNC function was invoked at a time when the PSF state was invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0278

Explanation: This abend is issued by module APSCSNA— The END PPCC function in the module APSCSNA detected a logic error after issuing the TERMINATE verb. The return code could not be mapped.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0279

Explanation: This abend is issued by module APSCSNA— The module APSCSNA detected a logic error when attempting to issue the TERMINATE TYPE (NORMAL) verb.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027A

Explanation: This abend is issued by module APSCSNA— The module APSCSNA detected a logic error after issuing the DEACTIVATE TYPE (NORMAL) verb to PPCC. The return code from DEACTIVATE could not be mapped.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027B

Explanation: This abend is issued by module APSCSNA— The SEND_DATA function of the module APSCSNA detected that the length of data to be sent to the printer was greater than 32765 bytes.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027C

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error when attempting to issue the DEACTIVATE TYPE(NORMAL) verb. DEACTIVATE TYPE(NORMAL) should be able to be issued after the DEALLOCATE TYPE(LOCAL) verb.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027D

Explanation: This abend is issued by module APSCSNA— The HALT_SESS function in APSCSNA detected a logic error after issuing the DEALLOCATE TYPE (FLUSH) verb to PPCC. The return code from DEALLOCATE could not be mapped.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027E

Explanation: This abend is issued by module APSCSNA— APSCSNA detected an invalid value for the internal state.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027F

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error after issuing the PRE_RECEIVE verb to PPCC. The return code could not be mapped.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0280

Explanation: This abend is issued by module APSCINIT— APSCINIT could not get storage for the Device Manager control block for a Systems Network Architecture-attached printer. The region is probably too small, as this is one of the first requests for storage during device initialization.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or

step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0281

Explanation: This abend is issued by module APSCSNA— The HALT_SESS function of the module APSCSNA detected a logic error while attempting to issue the DEACTIVATE TYPE(NORMAL) command. The DEALLOCATE TYPE(NORMAL) verb should be issued after the DEALLOCATE TYPE(ABEND) verb.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0282

Explanation: This abend is issued by module APSCSNA— APSCSNA was invoked with an invalid function. The valid values are defined in APSCSNA.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0283

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error when it attempted to map the internal state it calculated to an external PSF state.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0284

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error. An invalid internal state was calculated by the RECDATA function.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0285

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error. An invalid internal state was calculated by the SESSSYNC function.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0287

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a second PGMERR return code from PPCC after issuing the RECEIVE and WAIT verb when going to Send state.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

028A

Explanation: This abend is issued by module APSCCDEV— APSCCDEV was issued before the Page Printer Communications Component was loaded (by APSCINIT). APSCINIT must be called before APSCIPRT.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

028C

Explanation: This abend is issued by module APSCIPRT— APSCIPRT detected an invalid printer family specification in the field CCBCFMLY of the CCB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

028D

Explanation: This abend is issued by module APSCIPRT— APSCIPRT detected an invalid LU Type for a Systems Network Architecture-attached printer; the LU type must be LU 1 or LU 6.2. Or, APSCIPRT detected an invalid attachment type in the CCBCTYPE field of the common control block (CCB); the CCBCTYPE value must be 'C', 'S', or 'T'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. For assistance related to this error code, consult your service representative in the IBM Support Center.

0291

Explanation: This abend is issued by module APSCTERM— APSCTERM detected that the DELETE macro failed to delete the Page Printer Communications Component load module.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

02A0

Explanation: This abend is issued by module APSCADJR— An invalid parameter was passed to APSCADJR for a Systems Network Architecture-attached printer; the data length of the command was too large. The DATALNG parameter must be between 0 and 32 758 bytes (if correlation IDs are supported) or between 0 and 32 760.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A1

Explanation: This abend is issued by module APSCADJR— APSCADJR detected an invalid attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be 'C', 'S', or 'T'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A2

Explanation: This abend is issued by module APSCADJR— The Systems Network Architecture session or the TCP/IP conversation was lost, or else the printer was not initialized upon entry to APSCADJR. APSCCDEV must be called and successfully completed before any module other than APSCIPRT may call APSCADJR.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A3

Explanation: This abend is issued by module APSCADJR— An invalid combination of the PSF state and the APSCSNA return code resulted after APSCSNA returned to APSCADJR. Or, an invalid combination of the PSF state and the APSCTCP return code resulted after APSCTCP returned to APSCADJR.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A4

Explanation: This abend is issued by module APSCADJR— APSCADJR called APSCCOMP to process an exception reported from an Systems Network Architecture printer. APSCCOMP cannot return to a zero return code unless PSF is in Synchronous Order processing. PSF ignores certain exceptions in Synchronous Order processing.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A5

Explanation: This abend is issued by module APSTCP— The attachment type is invalid. The attachment must be TCP/IP.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A6

Explanation: This abend is issued by module APSTCP— APSTCP was called with an invalid external state.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A7

Explanation: This abend is issued by module APSTCP— APSTCP was called with an invalid external state (not TCP_RESET) for TCPINIT (printer initialization).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A8

Explanation: This abend is issued by module APSTCP— APSTCP was called with an invalid external state (not TCP_CONVLOST) for TCPLINK (TCP/IP socket connection).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A9

Explanation: This abend is issued by module APSTCP— APSTCP was called with an invalid external state (not TCP_SEND, TCP_RECEIVE, or TCP_CONVLOST) for TCPSHUT (shutdown) or with an invalid external state (not TCP_CONVLOST) for TCPTERM (terminate).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AA

Explanation: This abend is issued by module APSTCP— APSTCP was called with an invalid external state (not TCP_SEND) for TCPSND (sending data).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AB

Explanation: This abend is issued by module APSTCP— APSTCP was called with an invalid external state (not TCP_RECEIVE) for TCPRECV (receiving data).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AC

Explanation: This abend is issued by module APSTCP— APSTCP was called with an invalid function.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AE

Explanation: This abend is issued by module APSTCP— The IPDS data length is greater than 32767.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AF

Explanation: This abend is issued by module APSTCP— No data is in the receive buffer.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B0

Explanation: This abend is issued by module APSCCOMP— The Device Manager subcomponent of PSF was not in SEND or RECEIVE state when APSCCOMP was issued outside of initialization for a Systems Network Architecture- or TCP/IP-attached printer.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B1

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a second program error return code from the PPCC after issuing a RECEIVE and WAIT verb to receive data.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B2

Explanation: This abend is issued by module APSCCOMP— APSEERRM did not call APSCRSET or APSCRDRV before returning to APSCCOMP. APSCCOMP probably has a logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B3

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an invalid acknowledgment type. This is probably a Page Printer Communications Component logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B4

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an invalid acknowledgment record (invalid command code).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B5

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an invalid attachment type specification in the CCB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B6

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected a null acknowledgment with a 3827 or a 3835 printer. The printer returned a null ACK record.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B7

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an invalid printer family specification in the CCB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B8

Explanation: This abend is issued by module APSCCOMP— The Channel-End appendage received control. It detected Channel-End status without Device-End status in an otherwise normal channel program termination.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B9

Explanation: This abend is issued by module APSCCOMP— APSCCOMP was called while the PSF Device Manager was in error state.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02BA

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected a protocol error. PPCC indicated that the printer or controller recovered incorrectly from an intervention-required condition at the printer. The SNA level recovery (sending -rsp 0802) was done without first sending the required IPDS NACK. The IPDS NACK is required in order for PSF to reposition correctly. Examples of intervention-required conditions include paper jams and running out of paper.

System Action: PSF attempts to recover from this abend by restarting. If PSF successfully restarts, message APS057I is issued.

System Programmer Response: This PSF abend reason code indicates a logic error in the microcode of either the printer or the SNA controller. Consult your hardware service representative. This is *not* a PSF logic error.

02BB

Explanation: This abend is issued by module APSCCOMP— After APSCSNA returned to APSCCOMP, APSCCOMP detected an invalid combination of the PSF state and the APSCSNA return code. Or, APSCCOMP detected an invalid combination of the PSF state and the APSCTCP return code after APSCTCP returned to APSCCOMP.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02BC

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected multiple acknowledgment records returned in a single Systems Network Architecture response.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02BE

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected that the PSF-simulated received page counter was not equal to the received page counter returned from the printer in a positive acknowledgment (ACK) record.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02BF

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an invalid negative acknowledgment record (invalid sense byte or page counter format).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02C0

Explanation: This abend is issued by module APSCWRT— The Device Manager subcomponent of PSF was not in SEND or RECEIVE state when APSCWRT was issued outside of initialization for a Systems Network Architecture- or TCP/IP-attached printer. This is a logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02C1

Explanation: This abend is issued by module APSCWRT— APSCWRT detected an invalid attachment type in the CCBCTYPE field of the common control block (CCB). The value must be 'C', 'S', or 'T'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02C2

Explanation: This abend is issued by module APSCWRT— APSCWRT detected an invalid printer family specification in the common control block (CCB) field CCBCFMLY.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02C3

Explanation: This abend is issued by module APSCWRT— APSCWRT was called while in error state.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02D0

Explanation: This abend is issued by module APSCSYNC— The Device Manager subcomponent of PSF was not in SEND or RECEIVE state when APSCSYNC was issued for a Systems Network Architecture- or TCP/IP-attached printer.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02D1

Explanation: This abend is issued by module APSCSNIO— The Device Manager subcomponent of PSF issued a sense type and model command and discovered that the printer type had changed while PSF was running.

System Action: PSF processing terminates abnormally.

02D2

Explanation: This abend is issued by module APSCSYNC— APSCSYNC detected an invalid attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be 'C', 'S', or 'T'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02D3

Explanation: This abend is issued by module APSCSYNC— After APSCSNA returned to APSCSYNC, APSCSYNC detected an invalid combination of the PSF state and the APSCSNA return code.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E0

Explanation: This abend is issued by module APSCPRCT— APSCPRCT was called to support a device with an attachment type other than channel attachment.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

02E1

Explanation: This abend is issued by module APSCPRCT— APSCPRCT was called with an invalid function requested.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E2

Explanation: This abend is issued by module APSCPRCT— An attempt failed to assign a CCW to end a transaction. APSCPRCT should always be able to assign one CCW before filling the CCW buffer.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E3

Explanation: This abend is issued by module APSCPRCT— APSCPRCT detected an invalid printer family specification in the CCB field CCBCFMLY.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E5

Explanation: This abend is issued by module APSCPRCT— APSCPRCT detected an invalid acknowledgment (ACK) record from a Group3 printer.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E6

Explanation: This abend is issued by module APSCPRCT— APSCPRCT detected that the page counter received from the printer does not match the PSF-simulated received page counter. Either the printer did not increment the page counter by 1 or it is a PSF logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E7

Explanation: This abend is issued by module APSCCTIM— The STIMER macro failed to set a timer.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

02E9

Explanation: This abend is issued by module APSCSNIO— APSCSNIO was invoked with an invalid function request.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02EA

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected a request to perform a READ request while not in I/O error state. Either an I/O error did not occur, or APSCRDRV or APSCRSET was called, and cleared the error, before APSCSNIO was invoked.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02EB

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected a null ACK record on return from the printer.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02EC

Explanation: This abend is issued by module APSCSNIO— The PSF state must be SEND when APSCSNIO is called to perform the selected function.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02ED

Explanation: This abend is issued by module APSCSNIO— The APSCSNIO SENSEID function detected an invalid condition. The following conditions must be true for PSF when APSCSNIO is called to perform the SENSEID function:

- The device contact indicator should be set OFF.
- The PSF Device Manager initialization indicator should be set ON.
- The ignore residual errors indicator should be set ON.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02EE

Explanation: This abend is issued by module APSCSNIO— The APSCSNIO SENSEID function was unable to complete its function successfully. The printer did not respond to the first PSF IPDS command (STM). The SNA or TCP/IP connection may have failed, or a printer hardware error may be the cause. No IPDS information on the reason for the failure is available.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This abend indicates a possible printer hardware error. Correct any problems indicated on the printer operator panel. Correct any outstanding intervention conditions at the printer. Verify that a good network path to the printer exists. Re-IML the printer. If the problem persists, consult your systems engineer for assistance in correcting this error.

02EF

Explanation: This abend is issued by module APSCSNIO— The APSCSNIO READ function was unable to obtain a valid acknowledgment record from the printer.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F0

Explanation: This abend is issued by module APSCSNIO— The APSCSNIO ONECMD function was unable to obtain a valid acknowledgment record from the printer.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F1

Explanation: This abend is issued by module APSCSNIO— After APSCSNA returned to APSCSNIO, APSCSNIO detected an invalid combination of the PSF state and the APSCSN return code. Or, APSCSNIO detected an invalid combination of the PSF state and the APSCTCP return code after APSCTCP returned to APSCSNIO.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F2

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected a looping condition caused by consecutive PPCC REPLY return codes.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F3

Explanation: This abend is issued by module APSCSNIO— Either APSCSNIO received an invalid acknowledgment record type from the printer, or the device manager subcomponent of PSF issued a sense type and model command. Then the device manager subcomponent discovered that the printer type had changed to a printer using a different acknowledgment format while PSF was running.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F4

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected an invalid printer family in the Common Control Block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F5

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected an invalid attachment type in the Common Control Block (CCB) field CCBCFMLY.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F6

Explanation: This abend is issued by module APSCSNIO— The APSCSNIO ONECMD function was called to send an IPDS command that the APSCSNIO ONECMD function does not support.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F7

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected multiple acknowledgment records returned in a single Systems Network Architecture response or returned in a single TCP/IP response.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F8

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected an invalid acknowledgment record (invalid command code). If attached to a channel printer, the LMOD IGE0000E may not have been found. IGE0000E is the PSF supplied ERP for non-3800-channel-attached printers.

System Action: PSF processing terminates abnormally.

System Programmer Response: This may be a Page Printer Communications Component logic error if the printer is Systems Network Architecture-attached.

02F9

Explanation: This abend is issued by module APSCSNIO— APSCSNIO is unable to determine and set the printer family on the basis of the value returned in the acknowledgment record type field; or else the printer family field in the Common Control Block does not match the previously determined printer family.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02FF

Explanation: This abend is issued by module APSCCDEV— APSCCDEV was unable to establish contact with the printer after multiple retries. Failure to make contact may be due to a permanent printer hardware error, an uncleared intervention-required condition at the printer, or a network problem.

System Action: PSF processing terminates abnormally.

System Programmer Response: The printer may require a hardware reset, or the printer may still be in the middle of printing pages of a previous job from a previous SNA session. Allow the printer time to complete processing the previous job before attempting to establish contact again. Clear any intervention-required condition at the printer. Then restart PSF to try to establish contact again. If these actions do not fix the problem, consult your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance related to this error code.

0300

Explanation: This abend is issued by module APSQINIT— APSQINIT was called to initialize Pending Page Queue (PPQ) manager. However, PPQ manager was already initialized, and the PPQ control block, APSQPPQ, already exists.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0301

Explanation: This abend is issued by module APSQINIT— APSQINIT was unable to get space for the Pending Page Queue (PPQ) control block, APSQPPQ.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0310

Explanation: This abend is issued by module APSQDACT— APSQDACT could not find the Pending Page Queue (PPQ) control block, APSQPPQ, for one of the following reasons:

- APSQDACT was called before PPQ was initialized.
- An alteration has caused the pointer to APSQPPQ to be invalid.
- An alteration has caused APSQPPQ to be invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0311

Explanation: This abend is issued by module APSQDACT— APSQDACT received an invalid input parameter. Either PPQPTR or COUNT equal zero, or PPQPTR is not pointing to a valid PPQ entry on the active queue.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0320

Explanation: This abend is issued by module APSQENQ— APSQENQ could not find the Pending Page Queue (PPQ) control block, APSQPPQ, for one of the following reasons:

- APSQENQ was called before PPQ was initialized.
- An alteration has caused the pointer to APSQPPQ to be invalid.
- An alteration has caused APSQPPQ to be invalid.

PPQ must be initialized before the Device Manager (see APSPIFA).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0321

Explanation: This abend is issued by module APSQENQ— APSQENQ was called to build and queue a Pending Page Queue (PPQ) entry on the active queue. However, the PPQ exceeded the maximum size of 65535 entries.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0322

Explanation: This abend is issued by module APSQENQ— APSQENQ was unable to get space for a Pending Page Queue (PPQ) entry.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0323

Explanation: This abend is issued by module APSQENQ— APSQENQ received an invalid input parameter. The input to APSQENQ should be a positive transaction ID.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0324

Explanation: This abend is issued by module APSQENQ— Incorrect pointer data caused errors in repositioning in the message data set.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0325

Explanation: This abend is issued by module APSQENQ— The block and record count of the last record written to the current message data set was not the same in both the DIA (DIAMREP) and the current message RRB (RRBREP).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0330

Explanation: This abend is issued by module APSQDEQ— APSQDEQ could not find the Pending Page Queue (PPQ) control block, APSQPPQ, for one of the following reasons:

- APSQDEQ was called before PPQ initialized.
- An alteration has caused the pointer to APSQPPQ to be invalid.
- An alteration has caused APSQPPQ to be invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0331

Explanation: This abend is issued by module APSQDEQ— An error was reported by APSIPUT in freeing the message data set buffers.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0332

Explanation: This abend is issued by module APSQDEQ— An error was reported by APSQDEQ in dequeuing and freeing the message data set record resource block (RRB).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0333

Explanation: This abend is issued by module APSQDEQ— APSQDEQ received a transaction ID higher than that of the first incomplete PPQ entry. A routine has called APSQDEQ after a previous required call was omitted.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0334

Explanation: This abend is issued by module APSQDEQ— APSQDEQ detected a form ID error: the printer incremented or decremented an ID erroneously.

System Action: PSF processing terminates abnormally.

System Programmer Response: Apply maintenance to the microcode for the 3800 printer to bring it up to current levels.

0335

Explanation: This abend is issued by module APSQDEQ— Routing of the message data set to a SYSOUT data set failed. To determine the reason for the failure, see the accompanying error message on the operator console.

System Programmer Response: To determine the appropriate action, see the System Programmer Response for the accompanying error message on the operator console.

0340

Explanation: This abend is issued by module APSQIMPL— APSQIMPL could not find the Pending Page Queue (PPQ) control block, APSQPPQ, for one of the following reasons:

- APSQIMPL was called before PPQ was initialized.
- An alteration has caused the pointer to APSQPPQ to be invalid.
- An alteration has caused APSQPPQ to be invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0435

Explanation: This abend is issued by module APSDDOC— The carriage control type in the RRB control block was not recognized. It should have been either "none", ANSI, or machine.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0490

Explanation: This abend is issued by module APSDGETI— An invalid combination of return and reason codes was issued from the invocation of the APSIGET macro.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04A0

Explanation: This abend is issued by module APSDINIT— Control was passed to module APSGGETM with the issuance of the APSXGETM macro. This abend indicates that the required storage could not be obtained.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

04A5

Explanation: This abend is issued by module APSDINIT— A nonzero return code was received from the first APSIPUT macro against Page Printing Writer output spool APSIRRB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B0

Explanation: This abend is issued by module APSDPROC— The first invocation of APSDGET issued a nonzero return code when getting the first record from Page Printing Writer.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B1

Explanation: This abend is issued by module APSDPROC— Module APSCCLR issued an invalid return code.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B2

Explanation: This abend is issued by module APSDPROC— Module APSDDS issued an invalid return code.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B4

Explanation: This abend is issued by module APSDPROC— APSDGET issued a nonzero return code while getting the next record from Page Printing Writer.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B5

Explanation: This abend is issued by module APSDPROC— After the invocation of APSCCLR, an I/O error was issued with an action code, sense-byte 2, indicating that the current page was terminating. The action code for an I/O error cannot terminate the current page after a call to APSCCLR.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

04B6

Explanation: This abend is issued by module APSDPROC— After the invocation of APSCCLR, an I/O error was issued with an unrecognizable action code, sense-byte 2.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B8

Explanation: This abend is issued by module APSDPROC— After the invocation of APSDDS, an I/O error was issued with an unrecognizable action code.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B9

Explanation: This abend is issued by module APSDPROC— After the invocation of APSDDS, an I/O error was issued with an action code, sense-byte 2, indicating that the current page was terminating. The action code for an I/O error cannot terminate the current page after a call to APSDDS.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04F0

Explanation: This abend is issued by module APSDLOAD— The object type indicated in the Resource Control Block (RCB) that was passed to APSDLOAD is unrecognizable.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04F2

Explanation: This abend is issued by module APSDLOAD— An I/O error occurred while a font was being loaded. Repeated attempts were unsuccessfully made to delete the part of the font that was already loaded. APSDLOAD cannot delete the font, because of repeated I/O errors.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04F3

Explanation: This abend is issued by module APSDLOAD— Not enough virtual storage was available to build the Formdef Interface parameter area.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

04F4

Explanation: This abend is issued by module APSDLOAD— Insufficient virtual storage was available to build the PAGEDEF Interface parameter block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

04F5

Explanation: This abend is issued by module APSDLOAD— The library type indicated in the Resource Control Block (RCB) that was passed to APSDLOAD is unrecognizable.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0502

Explanation: This abend is issued by module APSDDS— The current structured field is not an End Data Set (EDS). Structured fields other than EDS should be processed elsewhere. For more information about the EDS structured field, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

050B

Explanation: This abend is issued by module APSDDS— The current structured field is not an End Job Header (EJH). Structured fields other than EJH should be processed elsewhere. For more information about the EJH structured field, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0514

Explanation: This abend is issued by module APSDDS— The structured field encountered at the end of a transmission is not an End Transmission (ETM). Structured fields other than ETM should be processed elsewhere. For more information about the ETM structured field, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0515

Explanation: This abend is issued by module APSSDDS— An invalid field from Page Printing Writer was detected after an authorized End Transmission (ETM) structured field. For more information about the ETM structured field, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0516

Explanation: This abend is issued by module APSSDDS— The structured field encountered at the end of a data set header is not an End Data Set Header (EDH). Structured fields other than EDH should be processed elsewhere. For more information about the EDH structured field, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0518

Explanation: This abend is issued by module APSSDDS— The structured field in the internal message data set is not a Message Variable (MSV) structured field. For more information about the MSV structured field, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0519

Explanation: This abend is issued by module APSSDDS— APSDGET detected an error while trying to access the messages by reading the first record from an internal record data set.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

051A

Explanation: This abend is issued by module APSSDDS— An attempt to build a record resource block (RRB) to access the internal message data set was unsuccessful.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

051B

Explanation: This abend is issued by module APSSDDS— An attempt to delete a record resource block (RRB) used to access the internal message data set was unsuccessful. The RRB for the message data set cannot be dequeued.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

051D

Explanation: This abend is issued by module APSSDDS— The structured field encountered at the end of a job trailer was not an End Job Trailer (EJT). Structured fields other than EJT should be processed elsewhere. For more information about the EJT structured field, refer to *Mixed Object Document Content Architecture Reference*.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

051E

Explanation: This abend is issued by module APSSDDS— An invalid reason code was issued with a return code that was set to INFORMATIONAL.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0520

Explanation: This abend is issued by module APSSDDS— The I/O Error Manager action code was not valid.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0521

Explanation: This abend is issued by module APSSDDS— An unrecognizable nonzero return code was issued to APSSDDS.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0523

Explanation: This abend is issued by module APSSDDS— After APSSDDS notified the Page Printing Writer either to reposition or to terminate a data set, module APSDGET issued an invalid combination of return code and reason code.

System Action: PSF attempts to recover from this

abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0524

Explanation: This abend is issued by module APSSDDS— APSQENQ issued a nonzero return code while building a Page Pending Queue (PPQ) entry.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0551

Explanation: This abend is issued by module APSDSECD— Not enough virtual storage was available to build the SECPAPR control block to represent the bin information for the security definitions library.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0552

Explanation: This abend is issued by module APSDSECD— Not enough virtual storage was available to build the narrow SECADATA control block to represent the narrow security definitions library paper information.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0553

Explanation: This abend is issued by module APSDSECD— Not enough virtual storage was available to build the wide SECDATA control block to represent the narrow security definitions library paper information.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0554

Explanation: This abend is issued by module APSDSECD— Not enough virtual storage was available to build the paper table for security definitions library processing.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0555

Explanation: This abend is issued by module APSDSECD— Not enough virtual storage was available to build the match table for security definitions library processing.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0556

Explanation: This abend is issued by module APSDSECD— An error occurred in the called module APSIBLD while PSF was trying to build the Record Resource Block (RRB) to facilitate access to the security definitions library.

System Action: PSF attempts to recover from this

abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0557

Explanation: This abend is issued by module APSDSECD— An error occurred in the called module APSIDEQ while PSF was trying to delete the Record Resource Block (RRB). The RRB was built by APSIBDL to facilitate access to the security definitions library.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0560

Explanation: This abend is issued by module APSDMSGF— PSF expected the current structured field to be a message variable (MSV) structured field, but it was not.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0601

Explanation: This abend is issued by module APSERRM— APSERRM detected unexpected values in sense bytes 0, 1, and 19 for an action code X'01' error (sense byte 2). This error is caused by a logic error in the I/O Error Manager, the Document Processor, or the Resource Manager subcomponent, or in the printer. For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, refer to the reference publication for the specific printer being used.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0602

Explanation: This abend is issued by module APSEERRM—APSEERRM detected unexpected values in sense bytes 0, 1, and 19 for an action code X'01' error (sense byte 2). The reason is probably that the data stream has extra or missing bytes, which cause the IPDS command boundaries to be lost. This error is caused by a data transmission problem or by a logic error in some piece of software or microcode in the data transmission path. For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, refer to the reference publication for the specific printer being used.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code results from a possible logic error in the printer microcode, the controller microcode, the NCP code, the VTAM code, or the PSF code. For assistance related to this error code, consult your service representative in the IBM Support Center, or use your electronic link with IBM service.

0604

Explanation: This abend is issued by module APSEERRM—APSEERRM detected an unrecoverable interface control check. Three attempts to perform printer I/O failed. The problem may have resulted from the printer associated with the abend, or may have been caused by another device on the same channel.

System Action: PSF processing terminates abnormally.

System Programmer Response: To determine what device is causing the error, run the EREP report for each device on the channel. Notify your systems engineer that a hardware error may have occurred.

0605

Explanation: This abend is issued by module APSEERRM—It indicates that the printer is reporting a unit check in response to the IPDS NOP command.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend

could indicate a logic error in the printer microcode. Most likely, however, it is due to problems in communication between PSF and the printer. Such problems are usually caused by a mismatch between channel protocol and speed. Verify that the CNTLUNIT PROTOCL statement matches the protocol for which the printer is configured.

0606

Explanation: This abend is issued by module APSEERRM—APSEERRM detected that the printer is reporting an excessive number of NACKs in response to the I/O issued for performing recovery.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code could indicate a logic error in the printer microcode. Contact your service representative for the printer involved.

0615

Explanation: This abend is issued by module APSEERRM—APSEERRM detected a channel control check in the channel status word (CSW). This I/O error would be handled in an error recovery procedure (ERP), and APSEERRM should not get control. The ERP should make five attempts to restart the channel program on the failing channel control word (CCW) before this type of error is considered a permanent error and is reported to PSF.

System Action: PSF processing terminates abnormally.

System Programmer Response: To determine what device is causing the error, run the EREP report for each device on the channel. Notify your systems engineer that a hardware error may have occurred.

0616

Explanation: This abend is issued by module APSEERRM—APSEERRM detected a channel data check in the channel status word (CSW). This I/O error would be handled in an error recovery procedure (ERP), and APSEERRM should not get control. The ERP should make five attempts to restart the channel program on the failing channel control word (CCW) before this type of error is considered a permanent error and is reported to PSF.

System Action: PSF processing terminates abnormally.

System Programmer Response: To determine what device is causing the error, run the EREP report for each device on the channel. Notify your systems engineer that a hardware error may have occurred.

0617

Explanation: This abend is issued by module APSEERRM— APSEERRM detected that both the Channel Control bit and the Interface Control bit in the CSW set were set ON. The I/O Supervisor sets both of these bits ON to indicate that the Missing Interrupt Handler (MIH) timer has expired.

System Action: PSF processing terminates abnormally.

System Programmer Response: IML the printer again if it is not printing. Correct any outstanding interventions at the printer. Correct any printer hardware problems. If necessary, increase the MIH timer interval.

0620

Explanation: This abend is issued by module APSEATCD— APSEATCD detected an unexpected action code in the printer sense byte 2. The cause is one of the following:

- The printer returned an undocumented or invalid value in sense byte 2.
- APSEATCD detected an action code that the error recovery procedure (ERP) returned because it was unable to recover the device.
- Check for the presence of an OIS permanent error message (such as IOS000I with EQC [Equipment Check]). If one is found, PSF abended because the device is in a state such that PSF cannot communicate with it. If no IOS permanent error message is issued, this PSF abend reason code indicates a possible logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: For printer sense bytes 0 to 23, see PSF message APS717I on the operator console.

For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, refer to the reference publication for the specific printer being used. This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0621

Explanation: This abend is issued by module APSEERRM— APSEERRM detected at least one of the following bits in the channel status word (CSW) set ON: Chaining Check, Program Check, or Protection Check.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0622

Explanation: This abend is issued by module APSEERRM— APSEERRM detected that an incorrect Length bit was set in the channel status word (CSW).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0623

Explanation: This abend is issued by module APSEERRM— APSEERRM detected that least one of the following bits in the channel status word (CSW) was set ON: Attention, or Status Modifier, or Control Unit End, or Busy, or Channel End, or Program-Control Interruption.

System Action: PSF processing terminates abnormally.

0624

Explanation: This abend is issued by module APSEMSG— APSEMSG detected an invalid recovery code in the I/O Error Manager parameter area (PARMRCOD).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0625

Explanation: This abend is issued by module APSEATCD— APSEATCD detected that a hardware error had occurred in the printer's media-size sensors.

System Action: PSF processing terminates abnormally.

System Programmer Response: For information on how to correct the problem, refer to the reference publication for your printer.

0626

Explanation: This abend is issued by module APSEERRM— APSEERRM detected that the CSW Unit Status and Channel Status bytes were both equal to zero.

System Action: PSF processing terminates abnormally.

0627

Explanation: This abend is issued by module APSEMSG— APSEMSG detected that the Transaction ID at the time of error does not match the Transaction ID in the I/O Error Information Element. A logic error exists in one of the following:

- The PSF Document Processor subcomponent that builds the I/O Information elements
- The Device Manager subcomponent that passes the address of the I/O Information elements to I/O Error Manager subcomponent
- The PSF I/O Error Manager subcomponent

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0628

Explanation: This abend is issued by module APSEERRM— APSEERRM detected an ECB completion code other than X'41', X'44', X'48', or X'7E'. APSEERRM continues processing only on the above ECB completion codes. To interpret the ECB completion code, refer to *MVS/Extended Architecture Data Administration, DFSMS/MVS Using Data Sets*, or the debugging handbook for your operating system.

System Action: PSF processing terminates abnormally.

0629

Explanation: This abend is issued by module APSEATCD—An unrecognized recovery code was found during X'06' recovery.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0640

Explanation: This abend is issued by module APSE3820— APSE3820 detected invalid values in sense bytes 0 and 1 for an action code X'09' error (sense byte 2). This error occurs either because the printer returned undocumented or invalid values in sense bytes 0, 1, and 2, or because the PSF I/O Error Manager subcomponent contains a logic error. For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, consult the reference publication for the specific printer being used.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0641

Explanation: This abend is issued by module APSEERRM— APSEERRM could not get storage for the I/O Error Manager Work Area control blocks.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0643

Explanation: This abend is issued by module APSE3820— APSE3820 detected an unexpected action code in the printer sense byte 2. This error arises either because the printer returned an undocumented or invalid value in sense byte 2, or because the PSF I/O Error Manager subcomponent contains a logic error. For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, refer to the reference publication for the specific printer being used.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use

your electronic link with IBM service for assistance regarding this error code.

0644

Explanation: This abend is issued by module APSE3820— APSE3820 received sense data with an action code of X'23', but with an undefined status code.

System Action: PSF processing terminates abnormally.

System Programmer Response: Re-IML the printer. If the problem persists, notify your systems engineer that a hardware error may have occurred.

0648

Explanation: This abend is issued by module APSEMSG— APSEMSG detected an invalid value (task) in the parameter MSGTASK.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0649

Explanation: This abend is issued by module APSERRM— APSERRM could not get enough storage for the PSF I/O error queue.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0650

Explanation: This abend is issued by module APSERRM— APSERRM detected that either I/O Error Manager's I/O Error Queue was empty, or no error was recorded as having the highest priority when it was time to select the highest-priority error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0651

Explanation: This abend is issued by module APSEMSG— APSEMSG detected invalid values in sense bytes 0 and 1 for an action code X'0C' error (sense byte 2). This error is caused by either of the following:

1. The printer returned undocumented or invalid values in sense bytes 0, 1, and 2.
2. The PSF I/O Error Manager subcomponent contains a logic error.

For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, consult the reference publication for the specific printer being used.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0652

Explanation: This abend is issued by module APSEMSG— APSEMSG detected that neither Device Manager nor Document Processor provided an address to an I/O Error Information Element for a synchronous error. Either the Device Manager, the Document Processor, or the I/O Error Manager subcomponent contains a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0653

Explanation: This abend is issued by module APSEATCD— APSEATCD detected an action code X'17' (printer sense byte 2) unit check I/O error. Action code X'17' indicates either a permanent hardware error or an attempt to use a disabled mechanism in the printer.

System Action: PSF processing terminates abnormally.

System Programmer Response: In order to use the disabled mechanism, you must fix the problem and

reactivate the mechanism. If a permanent hardware error has occurred, notify your systems engineer.

0654

Explanation: This abend is issued by module APSEERRM— APSEERRM detected the unit exception bit set in the channel status word (CSW). This I/O error should never occur while PSF is driving a printer in pagemode.

System Action: PSF processing terminates abnormally.

0655

Explanation: This abend is issued by module APSEERRM— APSEERRM received a synchronous I/O error after an asynchronous I/O error that had a negative acknowledgment record associated with it was received and placed in the I/O Error Manager's I/O Error Queue.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0656

Explanation: This abend is issued by module APSEERRM— During SYNC order processing, APSEERRM detected an invalid action code (sense byte 2) in I/O Error Manager's I/O Error Queue.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0657

Explanation: This abend is issued by module APSEERRM— APSEERRM detected that the error transaction ID or the I/O Error Information Element address was changed while APSCSNIO was called to do synchronous I/O.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use

your electronic link with IBM service for assistance regarding this error code.

0658

Explanation: This abend is issued by module APSEERRM— APSEERRM detected a NACK after APSRROCK indicated a successful return. The PSF Resource Manager subcomponent contains a logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0659

Explanation: This abend is issued by module APSEERRM— APSEERRM received a zero return code from APSRROCK. APSRROCK is required to return either an informational return code, when successful, or an 8-or-higher return code, when unsuccessful. The PSF Resource Manager subcomponent contains a logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0660

Explanation: This abend is issued by module APSECUR— APSECUR received an invalid function in the I/O Error Manager work area. The PSF I/O Error Manager subcomponent contains a logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0661

Explanation: This abend is issued by module APSEERRM— APSEERRM could not get enough storage for the local copy of APSCIOEA.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend

reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0662

Explanation: This abend is issued by module APSERRM— APSERRM could not get enough storage for the local copy of APSYDIOE.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0663

Explanation: This abend is issued by module APSERRM—APSERRM called APSCPRCT to determine the transaction in error and APSCPRCT was unable to do so.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0701

Explanation: This abend is issued by module APSRINIT— No space was available for the resource control table. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0711

Explanation: This abend is issued by module APSRNAME— APSRNAME received an invalid resource type as an input parameter. This parameter was not recognized as a coded font, a page segment, an overlay, a form definition, a page definition, or a code page—font character set resource type.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0712

Explanation: This abend is issued by module APSRNAME— Insufficient storage was available for an RLST entry.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0722

Explanation: This abend is issued by module APSRLOAD— The resource control block (RCB) contained a resource type other than a font, a code page font character set, a page segment, an overlay, a form definition, or a page definition.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0723

Explanation: This abend is issued by module APSRLOAD— The module was unable to GETMAIN storage for a control block. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in

direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0728

Explanation: This abend is issued by module APSRMPSG— This module was unable to GETMAIN storage for a control block. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0729

Explanation: This abend is issued by module APSRMPSG— APSRMPSG was called to process a Map Page Segment (MPS) structured field, but the printer does not support page segments.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0730

Explanation: This abend is issued by module APSRMPSG—The module was unable to GETMAIN storage for the APSRSWRK control block. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0731

Explanation: This abend is issued by module APSRMFNT— Insufficient storage was available for an RLST entry.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0734

Explanation: This abend is issued by module APSRMFNT— APSRMFNT was called to process a Map Coded Font (MCF) structured field, but the printer does not support coded fonts.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0736

Explanation: This abend was issued by module APSRMFNT—The module was unable to GETMAIN storage for the APSRSWRK control block. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0738

Explanation: This abend is issued by module APSRMOVL— The module was unable to GETMAIN storage for a control block. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: PSF processing terminates abnormally. This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in

deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0739

Explanation: This abend is issued by module APSRMOVL—APSRMOVL was called to process a Map Medium Overlay (MMO) or Map Page Overlay (MPO) structured field, but the printer does not support overlays.

System Action: PSF processing terminates abnormally. This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0740

Explanation: This abend was issued by module APSRMOVL—The module was unable to GETMAIN storage for the APSRSWRK control block. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0742

Explanation: This abend is issued by module APSRLRT— This failure occurs when APSRLRT calls the LOAD macro to load the PSF Resident Font Table (APSRFTBL) and the return code from the LOAD macro is not equal to zero.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0743

Explanation: This abend is issued by module APSRLRT— The module was unable to GETMAIN storage for a control block. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in

direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0744

Explanation: This abend is issued by module APSRLRT— This failure occurs when APSRLRT calls the LOAD macro to load the optional user mapping table APSRNTGM and APSRGTM. The return code from the LOAD is not equal to zero.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0751

Explanation: This abend is issued by module APRGRNEX— This failure occurs when APRGRNEX is called with an input pointer that does not point to storage that contains a valid Resource Control Block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0752

Explanation: This abend is issued by module APRGRNEX— The failure occurs when APRGRNEX detects that the attached printer supports the Distributed Print Function of PSF/2, and printer-resident fonts.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0771

Explanation: This abend is issued by module APSRDEL— APSRDEL received an invalid input parameter. Valid input parameters are X'01' or X'02'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0772

Explanation: This abend is issued by module APSRDEL— The reasonable resource-loading value (RRLV) for overlays was not set to zero.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0773

Explanation: This abend is issued by module APSRDEL— APSRDEL is called to specifically delete the RCB for a resource that is still loaded in the printer. This is a logic error in PSF, because the RCB is used to track resources in the printer. The resource should have been deleted first.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0781

Explanation: This abend is issued by module APSRROCK— The input parameter pointer does not address a valid RCB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0782

Explanation: This abend is issued by module APSRROCK— Resource Manager delete flags indicate that two or more operations are in error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

0783

Explanation: This abend is issued by module APSRROCK— Printer support of an RRL printer order is insufficient to allow recovery from a printer error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0784

Explanation: This abend is issued by module APSRROCK— A NACK was reported during the loading and activation of an outline font, but the flags inside the Resource Control Block did not indicate which part was being processed at the time of the error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. For assistance related to this error code, consult your service representative in the IBM Support Center, or use your electronic link with IBM service.

0791

Explanation: This abend is issued by module APSRSRT— APSRSRT detected that the pointer to the resident code page section or resident font character set section of PSF Resident Font Table (APSRFTBL) does not point to valid storage containing the required font information.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0820

Explanation: This abend is issued by module APRIOBEX—The library type indicated in the library parameter from APSRNAME is unrecognizable.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

07A1

Explanation: This abend is issued by module APROAEEX— This failure occurs when APROAEEX is called with an input pointer that does not point to storage that contains a valid resource control block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

07A8

Explanation: This abend is issued by module APSRMFNT— Fonts mapped in a Map Coded Font (MCF) structured field for an Object Environment Group must also be mapped in an MCF in the Active Environment Group for the same page or overlay. This error should have been detected before APSRMFNT was called, but was not.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

07A9

Explanation: This abend is issued by module APSRMFNX— The module was unable to GETMAIN storage for a control block. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

07B0

Explanation: This abend is issued by module APSRFIOM— An invalid font code page or character set was processed. The code page or character set did not contain a '5A'X carriage control, or else a logic error exists in the Font Library Utility.

System Action: The Font Library Utility terminates abnormally.

System Programmer Response: Verify that the code page or character set is valid. Register 5 points to the member name, and register 6 points to the DD name. If the font member contains '5A'X carriage control, consult your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance related to this error code.

0810

Explanation: This abend is issued by module APRIPSEX— The library type indicated in the library parameter from APSRNAME is unrecognizable.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0850

Explanation: This abend is issued by module APRINPEX— APRINPEX detected an authorized structured field. All authorized structured fields should have been recognized and processed elsewhere. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0851

Explanation: This abend is issued by module APRINPEX— APSDMSGF was called to retrieve records from the Message Data Set, but no record pointer was returned.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0852

Explanation: This abend is issued by module APRINPEX— An invalid carriage control type was specified in the record resource block, APSIRRB. The only valid carriage control types are None, ANSI, and Machine. This is a logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0860

Explanation: This abend is issued by module APRDOCEX— Data set type was not found.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0870

Explanation: This abend is issued by module APRSTGEX— The AFPCCM requested that space be allowed, but none was allowed successfully. The APSGGETM or APSXGETM macro may contain a problem.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0880

Explanation: This abend is issued by module APRBPGEX— The bin number supplied by the caller was not found in APRDATDX.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

0881

Explanation: This abend is issued by module APRBPGEX— The bin number supplied by the caller was not found in APSDYSEC.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0882

Explanation: This abend is issued by module APRBPGEX— The value of DCAERCID (number of copies printed) was odd, but the page was on a duplex sheet.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0883

Explanation: This abend is issued by module APRBPGEX—Not enough storage available for triplet data.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0891

Explanation: This abend is issued by module APREPGEX— The duplex indicator in the parameter block is invalid.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0892

Explanation: This abend is issued by module APREPGEX— The location of the last input record for the page is invalid because it contains blanks.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A0

Explanation: This abend is issued by module APRMSGEX— No DAT pointer was passed to the CCM. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A1

Explanation: This abend is issued by module APRMSGEX— No FORMDEF pointer was passed to the CCM. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A2

Explanation: This abend is issued by module APRMSGEX— No PAGEDEF pointer was passed to the CCM. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A3

Explanation: This abend is issued by module APRMSGEX— No Object Stack pointer was passed to the CCM. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A4

Explanation: This abend is issued by module APRMSGEX— No Code Page pointer was passed to the CCM. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A5

Explanation: This abend is issued by module APRMSGEX— No Font Metric pointer was passed to the CCM. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A6

Explanation: This abend is issued by module APRMSGEX— The CCM encountered an unexpected parameter. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A7

Explanation: This abend is issued by module APRMSGEX— The CCM cannot find the requested medium map. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A8

Explanation: This abend is issued by module APRMSGEX— The CCM cannot find the requested data map. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A9

Explanation: This abend is issued by module APRMSGEX— The CCM cannot find the requested environment group.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AA

Explanation: This abend is issued by module APRMSGEX— An invalid message identifier was passed by the Common Conversion Machine. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AB

Explanation: This abend is issued by module APRMSGEX— An invalid logic error identifier was passed by the Common Conversion Machine. This is a logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AC

Explanation: This abend is issued by module APRMSGEX— After the CCM has called the shell to load a list of overlays, it looks at the overlay local IDs and matches them with the overlay IDs in the MMC structured field. If a match cannot be found, the error is a logic error, because the shell should not change the overlay local ID field.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AD

Explanation: This abend is issued by module APRMSGEX— The starting copy count provided by the shell to the CCM exceeds the total number of copies in the current medium map. This error would happen after PSF had to reposition for some reason.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AE

Explanation: This abend is issued by module APRMSGEX— The CCM passed an invalid message ID to APRMSGEX.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AF

Explanation: This abend is issued by module APRMSGEX— The CCM passed an invalid logic error ID to APRMSGEX.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08B0

Explanation: This abend is issued by module APRMSGEX— The CCM was requested to use conditional processing information, but the page definition is not a conditional processing page definition.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08C0

Explanation: This abend is issued by module APRIPOEX— The overlay specified in the Include Page Overlay (IPO) structured field was not loaded in the printer.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08D4

Explanation: This abend is issued by module APRMSGEX— CCM has run out of its object stack area. This could be a data stream error or a logic error. A begin structured field must be followed by a matching end structured field in the data stream. If this requirement is not met, the CCM can run out of its object stack area.

System Action: PSF processing terminates abnormally.

System Programmer Response: Each begin structured field in the data stream must be followed by a matching end structured field. Check the data stream to ensure that this requirement is met. If it is not met, correct the data stream. If it is met, this error code indicates a logic error. If you believe the error is a logic error, consult your service representative in the IBM Support Center for assistance, or use your electronic link with IBM service.

System Programmer Response: This PSF abend reason code indicates a logic error. For assistance with this error code, consult you service representative in the IBM Support Center, or use your electronic link with IBM service.

08D5

Explanation: This abend is issued by module APRMSGEX—All bins reported back from the printer are either disabled or are inserter bins. As a result, no bins are available for printing and the current data set cannot be printed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0900

Explanation: Any LASI module— Not enough storage was available for the interface data block (APSLIDB) for the message data set.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0902

Explanation: Any LASI module— The record resource block (RRB) was invalid. The first four bytes must be 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0903

Explanation: Any LASI module— The record resource block (RRB) is not a message data set or an inline library.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0904

Explanation: Any LASI module— The record resource block (RRB) does not specify a FIRSTCALL or GET.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0905

Explanation: Any LASI module— An invalid reason code was issued to LASI. The reason code is in register 2.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0906

Explanation: Any LASI module— An invalid return code was issued to LASI. The return code is in register 2.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

090C

Explanation: Any LASI module— The record resource block (RRB) was invalid. The first four bytes must be 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

090D

Explanation: Any LASI module— The record resource block (RRB) does not specify a message data set or an inline library data set.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

090E

Explanation: Any LASI module— A request was received to process an output message data set or inline library. The record resource block (RRB) that was specified was neither an output message data set nor an inline library RRB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

090F

Explanation: Any LASI module— The producer issued an invalid reason code to LASI.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0910

Explanation: Any LASI module— The producer issued an invalid return code to LASI.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0911

Explanation: Any LASI module— The length of the logical record is greater than the maximum allowed.

System Action: PSF processing terminates abnormally.

System Programmer Response: The resource containing the error should be recreated following the Data Management guidelines for logical records. The logical record minimum is 5 bytes, and the logical record maximum is 32 760 bytes.

0912

Explanation: Any LASI module— The length of the logical record is less than the minimum allowed.

System Action: PSF processing terminates abnormally.

System Programmer Response: The resource containing the error should be recreated following the Data Management guidelines for logical records. The logical record minimum is 5 bytes, and the logical record maximum is 32 760 bytes.

0913

Explanation: Any LASI module— An invalid request was received.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0919

Explanation: Any LASI module— The control block is not a record resource block (RRB). The first four bytes must be 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0920

Explanation: Any LASI module— The record resource block (RRB) is not type 'LIB'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0921

Explanation: Any LASI module— An invalid reason code was returned to LASI.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0922

Explanation: Any LASI module— An invalid return code was returned to LASI.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0924

Explanation: Thisabend is issued by module APSLRIDS— While an inline resource was being read from its buffers, the buffered inline resource was modified.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSFabend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0926

Explanation: This abend is issued by module APSLRBS— The SYNADRLS macro discovered an invalid save area chain.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0928

Explanation: This abend is issued by module APSLRBS— The function requested is not known by this module.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0930

Explanation: This abend is issued by module APSLRBS— The closing of a system library that had an extent error was unsuccessful.

System Action: PSF processing terminates abnormally.

System Programmer Response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0931

Explanation: This abend is issued by module APSLRBS— The reopening of a system library that had an extent error was unsuccessful.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0933

Explanation: This abend is issued by module APSLRBS— An unknown type of extent error has occurred. The error cannot be processed.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0936

Explanation: This abend is issued by module APSLRBS— The data control block (DCB) points to the data extent block (DEB), but the DEB does not point back to the DCB.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0937

Explanation: This abend is issued by module APSLRBS— The data control block (DCB) does not point to a data extent block (DEB). The DEB ID must be X'F' in the low-order 4 bits of the DEBEBID.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0938

Explanation: This abend is issued by module APSLRBS— The FIND macro returned a non-zero return code in Register 15. This return code should always be zero.

System Action: PSF processing terminates abnormally.

System Programmer Response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0940

Explanation: This abend is issued by module APSLCLOS— The function requested is not known by APSLCLOS.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0942

Explanation: This abend is issued by module APSLCLOS— The record resource block (RRB) does not point to an interface data block (APSLIDB). The IDB does not have 'IDB' as the first four characters of the block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0948

Explanation: This abend is issued by module APSLMSG— A request was made to issue a message that is not supported by this module.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0954

Explanation: This abend is issued by module APSLINIT— Not enough storage was available for the record resource block (RRB).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0955

Explanation: This abend is issued by module APSLINIT— Not enough storage was available for the system object control block, APSLSOCB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0956

Explanation: This abend is issued by module APSLINIT— The APSLINIT message data set stack is empty. A dummy message data set should be stacked.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0957

Explanation: This abend is issued by module APSLINIT— An error occurred while the APSLINIT dummy message data set was being created. Not enough storage was available for a record resource block (RRB).

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0958

Explanation: This abend is issued by module APSLINIT— An APSLINIT error occurred while PSF was writing message APS516I or APS517I to the library access system interface (LASI) message data sets, using the APSIPUT macro. These are the message data sets used in later processing if not enough space is available to write an error or informational message to the current message data set.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0959

Explanation: This abend is issued by module APSLINIT—The module was unable to GETMAIN storage for the Library Link List. PSF cannot execute without sufficient storage space to build its basic control blocks.

System Action: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0964

Explanation: This abend is issued by module APSLOPEN— The record resource block (RRB) is invalid. The control block ID must be 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0968

Explanation: This abend is issued by module APSLOPEN— The function requested is not known to this module.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0969

Explanation: This abend is issued by module APSLOPEN— An entry for a requested object was found in the system object control block, APSLSOCB, but the entry interface data block (APSLIDB) was not free. The entry was in use and must be disconnected before it is reused.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0974

Explanation: This abend is issued by module APSLOPEN— The data control block (DCB) points to the data extent block (DEB), but the DEB does not point back to the DCB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0975

Explanation: This abend is issued by module APSLOPEN— The data control block (DCB) does not point to a data extent block (DEB). The DEB ID must be X'F' in the low-order 4 bits of DEBEBID.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0976

Explanation: This abend is issued by module APSLOPEN— Because the library had either an extent error or a non-zero BLDL return code, PSF tried to close it, but did not succeed.

System Action: PSF processing terminates abnormally.

System Programmer Response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0977

Explanation: This abend is issued by module APSLOPEN— PSF tried to reopen the library but was unable to do so, because the library had either an extent error or a non-zero BLDL return code.

System Action: PSF processing terminates abnormally.

System Programmer Response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0978

Explanation: This abend is issued by module APSLOPEN— A request to connect to a library was received, but the combination of the encoded ID and library type was invalid. The combination of the encoded ID and library type is used to indicate the library wanted. LASI did not recognize the combination specified. The encoded ID is found in the RRBEID field of the RRB. The library type is found in the RRB_LIBTYPE field of the RRB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0979

Explanation: This abend is issued by module APSLOPEN— An IGET was issued for a member from a USERLIB before the invocation of APSLDYNA for the USERLIB.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0980

Explanation: This abend is issued by module APSLOPEN— Too many levels of member nesting were requested from the user library. This is a PSF logic error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0981

Explanation: This abend is issued by module APSLDYND— The system function for CLOSE of a user library did not succeed.

System Action: PSF processing terminates abnormally.

System Programmer Response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0982

Explanation: This abend is issued by module APSLDYND— The system function for the deconcatenation of a user library did not succeed.

System Action: PSF processing terminates abnormally.

System Programmer Response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0983

Explanation: This abend is issued by module APSLDYND— The system function for the deallocation of a user library did not succeed.

System Action: PSF processing terminates abnormally.

System Programmer Response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0987

Explanation: This abend is issued by module APSLDYNA— An internal request has been received to allocate and open a user library. The user libraries are already allocated and open.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0988

Explanation: This abend is issued by module APSLDYNA— The JCL keyword required for user library processing (USERLIB) was not specified. APSLDYNA should not have been called.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0990

Explanation: This abend is issued by module APSLIREP— The record resource block (RRB) is invalid. The control block ID is not 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0992

Explanation: This abend is issued by module APSLIREP— The record resource block (RRB) is not a message type ('MSG '). A message-type RRB is required for a repositioning request.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0993

Explanation: This abend is issued by module APSLIREP— The record resource block (RRB) is a message type ('MSG '). However, the RRB was not defined with a FIRSTCALL(PUT) macro, which is required for a repositioning request.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0994

Explanation: This abend is issued by module APSLIREP— The interface data block (APSLIDB) is invalid. The control block ID is not 'IDB'. The address of the IDB is in register 2.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0996

Explanation: This abend is issued by module APSLIREP— The record resource block (RRB) does not point to an interface data block (IDB). The pointer is zero.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0998

Explanation: This abend is issued by module APSLIREP— A request was made to reposition the message data set. The repositioning information passed was invalid. The block of data requested was less than the minimum of zero.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

099A

Explanation: This abend is issued by module APSLIREP— A request was made to reposition the message data set, but the repositioning information passed was invalid. The requested block number was greater than the number of blocks of data in the message data set.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

099C

Explanation: This abend is issued by module APSLIREP— A request was made to reposition the message data set. However, the repositioning information passed was invalid. The requested number was less than 0, the lowest record number that can be requested.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

099E

Explanation: This abend is issued by module APSLIREP— A request was made to reposition the message data set. However, an invalid buffer block was encountered when searching the chain. The buffer block ID should have been BUFB, but was not. Register 2 contains the address of the invalid buffer block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A1

Explanation: This abend is issued by module APSLIREP— A request was made to reposition the message data set. However, an invalid buffer descriptor word (BDW) was encountered in the buffer block. Register 2 contains the address of the invalid BDW.

The invalid BDW may have been caused by one of the following:

- The BDW contains a negative length.
- The BDW flags are not all zero.
- The BDW contains a length of zero.
- The BDW contains a length less than 9, the minimum valid length.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

09A3

Explanation: This abend is issued by module APSLIREP— A request was made to reposition the message data set, but an invalid record descriptor word (RDW) was encountered in the buffer block. Register 2 contains the address of the invalid RDW.

The invalid RDW may have been caused by one of the following:

- The RDW contains a negative length.
- The RDW flags are not all zero.
- The RDW contains a length of zero.
- The RDW contains a length less than 9, the minimum valid length.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A4

Explanation: This abend is issued by module APSLIREP— A request was made to reposition the message data set, but the record requested was not in the data set. The correct buffer block was found, but the record was not there. Register 2 contains the address of the buffer block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A5

Explanation: This abend is issued by module APSLIREP— The APSIBLD macro issued a nonzero return code when the message data set was being reinitialized.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A6

Explanation: This abend is issued by module APSLIREP— The APSIPUT macro issued a nonzero return code on a STOP PROCESSING request.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B1

Explanation: This abend is issued by module APSZCMND— The error occurred during the parsing of the CIB data processing command. The CIB contains the information specified in the MODIFY command for PSF.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B2

Explanation: This abend is issued by module APSZCMND— The error occurred during the parsing of the CIB data processing printer name. The CIB contains the information specified in the MODIFY command for PSF.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B3

Explanation: This abend is issued by module APSZCMND— The error is in traversing the CIB data-processing keyword. The CIB contains the information specified in the MODIFY command for PSF.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

09B4

Explanation: This abend is issued by module APSZCMND— The error is in traversing the CIB data-processing parameter. The CIB contains the information specified in the MODIFY command for PSF.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B8

Explanation: This abend is issued by module APSZTRCE— The printer name, in an internal command list, had a length of zero. A printer name is required.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B9

Explanation: This abend is issued by module APSZTRCE— An invalid parameter code was found in the internal command list.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C0

Explanation: This abend is issued by modules APSZAFSA and APSZRSTR— The invalid interface block ID is not 'IPB'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C1

Explanation: This abend is issued by modules APSZFORC/APSZQMAN— The invalid interface request block ID is not 'IRB'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C2

Explanation: This abend is issued by module APSZAFSA— The invalid queue header ID is not 'QH'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C4

Explanation: This abend is issued by module APSZAFSA— The invalid common control block ID is not 'CCB'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C5

Explanation: This abend is issued by module APSZAFSA— The invalid FSA level control block ID is not 'SAB'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C6

Explanation: This abend is issued by module APSZAFSA— The invalid FSA queue element ID is not 'SAE'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C7

Explanation: This abend is issued by module APSZAFSA— The invalid FSS queue control block ID is not 'SAQ'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C9

Explanation: This abend is issued by module APSZQMAN— An invalid queue code was specified in the 'IRB'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09CA

Explanation: This abend is issued by module APSZQMAN— An invalid request code was specified in the 'IRB'.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09D5

Explanation: This abend is issued by module APSZRSTR— The MVS DETACH macro did not succeed in detaching APSZCMND.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

09D6

Explanation: This abend is issued by module APSZRSTR— The MVS FREEMAIN macro failed to release APSZCMND storage.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance regarding this error code.

09D7

Explanation: This abend is issued by module APSZRSTR— The MVS ATTACH macro was unsuccessful for module APSZCMND.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

09E0

Explanation: This abend is issued by module APSZAFSA— APSZAFSA found no free queue headers available.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09F0

Explanation: This abend is issued by module APSZFORC— APSZFORC received an invalid command.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09FE

Explanation: This abend is issued by modules APSZCMND and APSZRSTR— The MVS QEDIT macro was unsuccessful.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

System Action: PSF processing terminates abnormally.

0A00

Explanation: This abend is issued by module APSUEXTI— The GETMAIN macro failed for an exit control block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0A10

Explanation: This abend is issued by module APSUREXT— An invalid Exit-type parameter was received.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A11

Explanation: This abend is issued by module APSUREXT— An invalid Resource-type parameter was received.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A12

Explanation: This abend is issued by module APSUREXT— LASI's attempt to get the PDS concatenation resulted in an unrecoverable error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A20

Explanation: This abend is issued by module APSUREXT— The system has insufficient storage for the RLST entry.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0A21

Explanation: This abend is issued by module APSUREXT— LASI's attempt to get the data set label resulted in the return of an error.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A30

Explanation: This abend is issued by module APSUBLKB— This error occurred when an exit called APSUBLK; ECASABP was not valid. The exit either modified ECASABP or modified the storage pointed to by ECASABP.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A31

Explanation: This abend is issued by module APSUBLKB— This error occurred when an exit called APSUBLK; a valid APSGCCB could not be found. The exit modified PSF storage.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A40

Explanation: This abend is issued by module APSUPUTB— This error occurred when an exit called APSUPUT; ECASABP was not valid. The exit either modified ECASABP or modified the storage pointed to by ECASABP.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A41

Explanation: This abend is issued by module APSUPUTB— This error occurred when an exit called APSUPUT; a valid APSGCCB could not be found. The exit modified PSF storage.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A51

Explanation: This abend is issued by module APSUFSSI— The DELETE of an installation exit routine failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A52

Explanation: This abend is issued by module APSUFSSI— The GETMAIN macro failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0A53

Explanation: This abend is issued by module APSUEXTI— The DELETE macro failed when attempting to delete an installation exit routine.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A54

Explanation: This abend is issued by module APSUEXIT— The input parameter to APSUEXIT is invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A55

Explanation: This abend is issued by module APSUNEXT— The input parameter to APSUNEXT is invalid.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B00

Explanation: This abend is issued by module APSIBLD— A request was received to create an input data set from an output data set, but the data set passed is not an output internal data set.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B01

Explanation: This abend is issued by module APSIBLD— The push-down stack does not point to a valid record resource block (RRB). The first four bytes of the area pointed to by the stack are not 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B02

Explanation: This abend is issued by module APSIBLD— The RRBAD parameter on the APSIBLD macro does not point to a record resource block (RRB). The first four bytes must be 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B04

Explanation: This abend is issued by module APSIDEQ— The push-down stack does not point to a valid record resource block (RRB). The first four bytes of the area pointed to by the stack must be 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B10

Explanation: This abend is issued by module APSIGET— The record resource block (RRB) does not point to an RRB. The first four bytes must be 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B11

Explanation: This abend is issued by module APSIPUT— The record resource block (RRB) does not point to an RRB. The first four bytes must be 'RRB '.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B12

Explanation: This abend is issued by module APSIGET— The RRB used for an APSIGET QUERY has been previously used for an APSIGET or APSIPUT without re-invocation of APSIBLD.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

0B13

Explanation: This abend is issued by module APSIGET— An APSIGET using an RRB that is not TYPE(LIB) has been issued.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0C00

Explanation: This abend is issued by module APSMMSG— The return reason code specified in the DUMP JCL has been encountered.

System Action: PSF processing terminates abnormally.

System Programmer Response: This abend occurred because it was requested by the user. To cancel this abend, correct the PRINTDEV parameter.

0C01

Explanation: This abend is issued by module APSMMSG— No conversion flag was set for the variable insert currently being processed by this routine.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0C02

Explanation: This abend is issued by module APSMMSG— A message ID (MSGID) was invalid. The MSGID either was equal to zero or was not in the range of the message index in the message text module.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0C03

Explanation: This abend is issued by module APSMMSG— The TRACE keyword of the invocation of APSXMSG had an invalid value taken from a routine variable.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0C20

Explanation: This abend is issued by module APSMMSG— The message count specified in the DUMP JCL parameter has been matched.

System Action: PSF processing terminates abnormally.

System Programmer Response: This abend occurred because it was requested by the user. To cancel this abend, correct the PRINTDEV parameter.

0C22

Explanation: This abend is issued by module APSMMSG— A SEND FSA Initiated Termination (FIT) requested by the PSF message exit has failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: To bypass this abend, do not request a FIT in the message exit.

0D00

Explanation: This abend is issued by module APSGGETM— APSGGETM received an invalid parameter list.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D01

Explanation: This abend is issued by module APSGGETM— A logic error occurred because an element was not available in a new storage block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend

reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D03

Explanation: This abend is issued by module APSGGETM— A logic error occurred because an element was not available in an initial storage block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D04

Explanation: This abend is issued by module APSGGETM— A logic error occurred because an element was not available in a new chain of storage blocks.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D05

Explanation: This abend is issued by module APSGGETM— APSGGETM received a nonzero return code from the system GETMAIN macro.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D06

Explanation: This abend is issued by module APSGGETM— A logic error occurred because no storage was available in a new pseudo-subpool storage block.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your

service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D07

Explanation: This abend is issued by module APSGGETM— A request for page-fixed storage crosses a 4K boundary.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D08

Explanation: This abend is issued by module APSGGETM— A PSF logic error occurred because a pseudo-subpool storage block did not exist.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D09

Explanation: This abend is issued by module APSGGETM— A PSF logic error occurred because a pseudo-subpool chain did not exist.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D0A

Explanation: This abend is issued by module APSGGETM— A request for page-fixed storage failed; nonzero return was received from the system page-fixing routine.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0D0B

Explanation: This abend is issued by module APSGGETM— The GETMAIN macro for the storage management control block failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D10

Explanation: This abend is issued by module APSGFREE— An invalid type of FREEMAIN request was received.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D11

Explanation: This abend is issued by module APSGFREE— A logic error occurred because an element to be freed was not in use.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D12

Explanation: This abend is issued by module APSGFREE— A logic error occurred because no pseudo-subpool storage blocks existed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D13

Explanation: This abend is issued by module APSGFREE— A logic error occurred because no element storage blocks existed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D14

Explanation: This abend is issued by module APSGFREE— A logic error occurred because the correct element storage-block chain could not be found.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D15

Explanation: This abend is issued by module APSGFREE— A logic error occurred because the element address was not within the bounds of any of the storage blocks.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D16

Explanation: This abend is issued by module APSGFREE— A page free of specified storage failed; a nonzero return was received from the PGSER macro.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0D17

Explanation: This abend is issued by module APSGFREE— A logic error occurred because the storage-block chain for the specified pseudo subpool could not be found.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D18

Explanation: This abend is issued by module APSGFREE— APSGFREE received a nonzero return from the system FREEMAIN macro.

System Action: PSF processing terminates abnormally.

System Programmer Response: Refer to your operating system publication that explains system macros to determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance regarding this error code.

0D19

Explanation: This abend is issued by module APSGFREE— The free element counter for the storage management control block structure indicates how many free elements are available. A logic error occurred when a free element was expected, but not found, in the storage management control block structure.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D20

Explanation: This abend is issued by APSDECH and all APSXRETN users— Any module that invokes APSXRETN and APSDECH abends with this reason code whenever the return reason code specified on the DUMP JCL parameter is encountered.

System Action: PSF processing terminates abnormally.

System Programmer Response: This abend occurred because it was requested by the user. To cancel this abend, correct the PRINTDEV parameter.

0D21

Explanation: This abend is issued by module APSGGETM— The element size specified in the invocation of APSXGETM is too large.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D31

Explanation: This abend is issued by module APSGFSAI— A GETMAIN for storage below the 16MB line failed. The storage was needed to contain save/autodata areas.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D32

Explanation: This abend is issued by module APSGFSAI— A GETMAIN for storage above the 16MB line failed. The storage was needed to contain save/autodata areas.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D33

Explanation: This abend is issued by module APSGFSAI— A GETMAIN for the data encapsulation area failed. The storage was requested from a key zero subpool in order to support encapsulation.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D41

Explanation: This abend is issued by module APSGFSSI— A GETMAIN for storage below the 16MB line failed. The storage was needed to contain a copy of the module address table.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Note: Reason codes 0E00 through 0E7F are used to terminate PSF without a dump and without message APS050I. These codes do not represent logic errors.

0E00

Explanation: This abend is issued by module APSCSNA— PSF was terminated because of a return code from the Page Printer Communications Component (PPCC) APPC_INITIALIZE macro. Message APS922I describes the condition that caused this termination. Depending on the return code (described in message APS922I), this might be a problem.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: Use the information contained in the associated APS922I message to correct this error.

0E01

Explanation: This abend is issued by module APSCSNA— PSF was terminated because of a return code from the Page Printer Communications Component (PPCC) APPC_ACTIVATE macro. Message APS922I describes the condition that caused this termination.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: Use the information contained in the associated APS922I message to correct this error.

0E02

Explanation: This abend is issued by module APSCSNA— PSF terminated because the retry limit was reached while PSF was attempting to activate a session with a Systems Network Architecture-attached printer. Message APS922I describes the condition that caused this termination.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: Use the information contained in the associated APS922I message to correct this error.

0E03

Explanation: This abend is issued by module APSCSNA— PSF terminates because of a return code from the Page Printer Communications Component (PPCC) APPC_DEALLOCATE macro. Message APS922I describes the condition that caused this termination.

System Action: PSF processing terminates abnormally.

System Programmer Response: Use the information contained in the associated APS922I message to correct this error.

0E04

Explanation: This abend is issued by module APSCSNA— PSF terminates because of a return code from the Page Printer Communications Component (PPCC) APPC_ALLOCATE macro. Message APS922I describes the condition that caused this termination.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: Use the information contained in the associated APS922I message to correct this error.

0E05

Explanation: This abend is issued by module APSCSNA— PSF terminates because the retry limit was reached while PSF was attempting to allocate a Systems Network Architecture-attached printer. Message APS922I describes the condition that caused this termination.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: Use the information contained in the associated APS922I message to correct this error.

0E08

Explanation: This abend is issued by module APSCSNA— PSF terminates either because of a return code from a Page Printer Communications Component (PPCC) verb or because of a FAILURE=STOP (a PRINTDEV JCL statement). Message APS922I describes the condition that caused this termination.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: Use the information contained in the associated APS922I message to correct this error.

0E09

Explanation: This abend is issued by module APSCCLR— PSF terminates because a FAILURE=STOP (a PRINTDEV JCL parameter) was specified and the printer is inoperative.

System Action: PSF processing terminates abnormally. No system dump is generated.

0E0A

Explanation: This abend is issued by module APSCCLR— PSF terminates because TIMEOUT=STOP (a PRINTDEV JCL parameter) was specified and the disconnect interval has expired.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: This abend occurred because it was requested by the user. To cancel this abend, correct the PRINTDEV parameter.

0E0C

Explanation: This abend is issued by module APSCINIT— APSCINIT detected an error when PSF attempted to load the Page Printer Communications Component (PPCC). The PPCC load module is probably not in an authorized library.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: Ensure that PPCC is in an authorized library.

0E0E

Explanation: This abend is issued by module APSCSNA— A return code of OK(DATA) or HALTREQD(DATA) was returned from the RECEIVE and WAIT verb, but OK(SEND) or HALTREQD(SEND) was expected.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E18

Explanation: This abend is issued by module APSCIPRT— APSCIPRT detected a printer that is not supported by PSF.

System Action: PSF processing terminates abnormally. No system dump is generated.

0E19

Explanation: This abend is issued by module APSCIPRT— APSCIPRT determined that no input-media bins from which to print pages are available. The printer is therefore unusable.

System Action: PSF processing terminates abnormally. No system dump is generated.

0E20

Explanation: This abend is issued by module APSCCTME— The acquire interval timer expired before connection with the printer was successful.

System Action: PSF issues message APS939I. PSF processing terminates abnormally.

System Programmer Response: See message APS939I.

0E21

Explanation: This abend is issued by module APSDDDS— A default or separator page definition or form definition could not be loaded.

System Action: PSF processing terminates abnormally. No system dump is generated.

0E22

Explanation: This abend is issued by module APRBPGEX— A default object container resource for the printer (for example, COMSETUP) was not specified in the PRINTDEV but was required.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: Specify the name of the object container resource on the OUTPUT statements for the job header, the data set header, the

message data set, and the job trailer. Also, ensure that all print jobs identify the object container resource to be used.

0E23

Explanation: This abend is issued by module APRBPGEX— A default or separator object container resource for the printer (for example, COMSETUP) could not be loaded.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: PSF issues additional messages to the operator console, identifying the cause of the error. Correct the error identified by those messages.

0E30

Explanation: This abend is issued by module APSEATCD— PSF was terminated because the printer became inoperative.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: This PSF abend reason code indicates a possible hardware error. Contact your systems engineer for assistance regarding this error code.

0E31

Explanation: This abend is issued by module APSE3820— PSF was terminated because the printer became inoperative.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: This PSF abend reason code indicates a possible hardware error. Contact your systems engineer for assistance regarding this error code.

0E32

Explanation: This abend is issued by module APSERRM— PSF was terminated because the printer became inoperative.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: This PSF abend reason code indicates a possible hardware error. Contact your systems engineer for assistance regarding this error code.

0E33

Explanation: This abend is issued by module APSEERRM—PSF attempted to do I/O to a printer that was assigned (reserved) to another system.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: This PSF abend reason code indicates a probable incorrect operational procedure. Refer to the associated APS445I message to correct the error.

0E34

Explanation: This abend is issued by module APSEERRM—PSF attempted to do I/O to a printer that was not assigned (reserved) to the system.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: The PSF abend reason code indicates a probable incorrect operational procedure. Refer to the associated APS479I message to correct this error.

0E35

Explanation: This abend is issued by module APSEATCD—PSF attempted to do I/O to a printer that was not assigned (reserved) to the system.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: This PSF abend reason code indicates a probable incorrect operational procedure. Refer to the associated APS445I message to correct this error.

0E36

Explanation: This abend is issued by module APSEATCD—PSF attempted to do I/O to a printer that was assigned (reserved) to another system.

System Action: PSF processing terminates abnormally. No system dump is generated.

System Programmer Response: This PSF abend reason code indicates a probable incorrect operational procedure. Refer to the associated APS479I message to correct this error.

0E80

Explanation: This abend is issued by module APS4MLMC— A GETMAIN for virtual storage for the 3800 line mode conversion subcomponent failed. The storage was needed for control blocks used to support the 3800 line mode conversion function.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0E81

Explanation: This abend is issued by module APS4MLD— An error was detected while PSF attempted to delete a load module from virtual storage. Because a failed DELETE will prevent virtual storage from ever being freed, the abend is taken.

System Action: PSF processing terminates abnormally.

System Programmer Response: See the accompanying messages for the system action that was taken.

0E82

Explanation: This abend is issued by module APS4MCLS— An invalid option was specified in the invocation of APS4MCLS. Valid options are CLOSEDCB, CLOSE, and ABNORMAL.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E90

Explanation: This abend issued by module APSNINIT— A GETMAIN for virtual storage for the Sockets Extended interface task work area failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: Increase the size of the REGION parameter used in the startup procedure for PSF.

0E91

Explanation: This abend is issued by module APSNLINK— The INITAPI for the Sockets Extended interface failed.

System Action: PSF processing terminates abnormally.

System Programmer Response: This abend code may indicate that TCP/IP has not been started. Ensure that TCP/IP has been started. If this reason does not apply, consult your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance related to this error code.

0E92

Explanation: This abend is issued by module APSNLINK— The IP address specified in the PRINTDEV statement of the startup procedure for PSF is invalid. It is not a valid dotted decimal address or a valid host name.

System Action: PSF processing terminates abnormally.

System Programmer Response: Ensure that the IP address is correct, and restart the PSF FSA.

0E93

Explanation: This abend is issued by module APSNINIT— An invalid character was detected in the verification routine for the IP address.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E94

Explanation: This abend is issued by module APSNSEND— APSNSEND detected an invalid message type.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E96

Explanation: This abend is issued by module APSNLINK— The printer issued an invalid response after an attempt to assign the printer to the PSF FSA.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E97

Explanation: This abend is issued by module APSNSSEL— APSNSSEL detected an invalid priority operation.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E98

Explanation: This abend is issued by module APSNINIT— The INITAPI could not be completed. For further information, see message APS948I, issued before this abend.

System Action: PSF processing terminates abnormally.

System Programmer Response: For the appropriate response, see message APS948I, issued before this abend.

0E9A

Explanation: This abend is issued by module APSNSEND—The length of data to send is greater than the maximum data length the printer application layer can accept.

System Action: PSF processing terminates abnormally.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM Service for assistance regarding this error code.

0EA0

Explanation: The abend is issued by module APSKDVP— Following a socket INITAPI call failure, the termination call to JES failed.

System Action: Download for OS/390 processing terminates abnormally.

System Programmer Response: Download for OS/390 detected this abend. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature. If this error persists, consult your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance related to this error code.

0EA1

Explanation: This abend is issued by module APSKROUT— Download for OS/390 is unable to open the routing-control data set.

System Action: Download for OS/390 processing terminates abnormally.

System Programmer Response: In the Download for OS/390 startup procedure, ensure that the DD name for the routing-control data set is ROUTFILE. Download for OS/390 detected this abend. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

0EA2

Explanation: This abend is issued by module APSKROUT— The RECFM of the routing-control data set is not FB.

System Action: Download for OS/390 processing terminates abnormally.

System Programmer Response: Reallocate the routing-control data set with fixed blocked record format. Download for OS/390 detected this abend. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

0EA3

Explanation: This abend is issued by module APSKROUT— The LRECL of the routing-control data set is not 80.

System Action: Download for OS/390 processing terminates abnormally.

System Programmer Response: Reallocate the routing-control data set with a record length of 80 bytes. Download for OS/390 detected this abend. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

0EA4

Explanation: This abend is issued by module APSKROUT— Download for OS/390 cannot get storage for the data control block (DCB) for the Download for OS/390 routing-control data set.

System Action: Download for OS/390 processing terminates abnormally.

System Programmer Response: This code indicates that the region size should be increased. Increase the REGION parameter specified in the Download for OS/390 startup procedure. Download for OS/390 detected this abend. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

0EA5

Explanation: This abend is issued by module APSKLNK— Download for OS/390 cannot get storage to store the routing statements from the routing-control data set.

System Action: Download for OS/390 processing terminates abnormally.

System Programmer Response: This code indicates that the region size should be increased. Increase the REGION parameter specified in the Download for OS/390 startup procedure. Download for OS/390 detected this abend. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

0EA6

Explanation: This abend is issued by module APSKAFPD— The Download for OS/390 feature is not installed.

System Action: Download for OS/390 processing terminates abnormally.

System Programmer Response: Install the Download for OS/390 feature correctly. Download for OS/390 detected this abend. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

0EA7

Explanation: This abend is issued by module APSKAFPD— The socket INITAPI call failed.

System Action: Download for OS/390 processing terminates abnormally.

System Programmer Response: Take the action recommended for the error indicated in message APS995I. Download for OS/390 detected this abend. Refer to *PSF for OS/390: Download for OS/390* for more information about this feature.

0F00

Explanation: This abend is issued by modules DCKCHCBE, DCKCPADE, DCKCRABE— PPCC cannot continue, because it cannot acquire temporary storage.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0F01

Explanation: This abend is issued by module DCKCRABE— A password is specified in the APPL entry, but the Access Control Block (ACB) does not contain a password. Because the password parameter is not supported by PPCC, it must not appear in the VTAM network definition statements.

System Action: PSF processing terminates abnormally.

System Programmer Response: Correct the APPL statement in the VTAM network definition for PSF.

0F02

Explanation: This abend is issued by module DCKCRABE— Either this is an ACF/VTAM logic error, or invalid information was supplied in the Access Control Block (ACB). The latter case has three possible explanations:

- The APPLID field or the PASSWD field is incorrect, or
- The address of the APPLID field or the PASSWD field is out of range for the application program, or
- The network definition of AUTH for the APPLID is incorrect.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: Correct the APL statement in the VTAM network definition for PSF.

0F03

Explanation: This abend is issued by module DCKCRABE— An attempt was made to initialize PPCC at the time the given host APPLID was in the process of being “closed” by VTAM. This could happen either if the host program is restarted too quickly, or if the operator varies the host APPLID inactive.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code. The failing component is VTAM.

0F04

Explanation: This abend is issued by module DCKCRABE— The Systems Network Architecture network inactivity timer of the remote logical unit (LU) has expired. This can be caused either by an inappropriate setting of the Systems Network Architecture network inactivity timer at the remote LU (set to a value smaller than the PSF disconnect interval), or by a PSF problem that caused Systems Network Architecture network activity to cease.

System Action: PSF processing terminates abnormally.

System Programmer Response: Reconfigure the printer to have a longer SNA network inactivity timer.

0F05

Explanation: This abend is issued by module DCKCRABE— ACF/VTAM has detected an internal logic error in ACF/VTAM.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code. The failing component is VTAM.

0F06

Explanation: This abend is issued by module DCKCRABE— ACF/VTAM has aborted a request, because an error was detected either during the processing of the request, or in the associated session, task, or address space (such as an abend).

System Action: PSF attempts to recover from this

abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F07

Explanation: This abend is issued by module DCKCRINE— PPCC abended and was unable to store the correct reason code because it did not have addressability to its internal control blocks. This default reason code, which is stored in this area at initialization time, indicates a logic error. If register 15 contains the 0Fxx reason code desired for this abend, see that particular code for more details.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F09

Explanation: This abend is issued by module DCKCRABE— As the result of an internal logic error, PPCC Resource Management has incorrectly specified one of its requests to VTAM.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F0A

Explanation: This abend is issued by module DCKCRABE— Some of the received data (request or response units) for this session has been discarded by VTAM because of a lack of buffer space.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or

step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0F0B

Explanation: This abend is issued by module DCKCRABE— ACF/VTAM cannot continue because it cannot acquire temporary storage.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code may indicate that the REGION size should be increased. Increase the REGION parameter used in the startup procedure for PSF. This abend reason code may also indicate that the VTAM buffer pools, especially CRPL or LPBUF, are too small. Change the VTAM definition to increase these. If an SNA sense code is present, it may indicate the cause of the VTAM storage shortage. For example, X'08120005' may indicate that the number of independent LUs allowed at the NCP has been exceeded. In that case, the NUMILU parameter in the NCP gen must be increased.

0F0C

Explanation: This abend is issued by module DCKCPLEE— PPCC Presentation Services was given an invalid or incomplete logical record to send.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F0D

Explanation: This abend is issued by modules DCKCPLEE and DCKCRABE— PPCC Resource Management or PPCC Presentation Services has detected a protocol violation for a host transaction program. Either an invalid parameter has been submitted, or one of the APPC verbs has been issued in the wrong sequence.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F0E

Explanation: This abend is issued by module DCKCRABE— PPCC Resource Management has detected an internal logic error. One of its Finite State Machines has encountered a state check.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F0F

Explanation: This abend is issued by modules DCKCHBBF, DCKCHCRF, DCKCHCSF, DCKCHHDF, DCKCHMAE, DCKCHMBE, DCKCHQRF, DCKCHRTE, DCKCHSSF— PPCC Half-Session Management has detected an internal logic error. One of its Finite State Machines has encountered a state check.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F10

Explanation: This abend is issued by module DCKCPLEE— PPCC Presentation Services has detected an internal logic error. One of its Finite State Machines has encountered a state check.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F11

Explanation: This abend is issued by modules DCKCHBBF, DCKCHCAE, DCKCHCBE, DCKCHCCE, DCKCHCRF, DCKCHCSF, DCKCHHDF, DCKCHMAE, DCKCHMBE, DCKCHQRF, DCKCHRTE, DCKCHSLE, DCKCHSSF, DCKCPLEE, DCKCRABE— PPCC has detected an internal logic error. An internal incoming parameter contains an error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F12

Explanation: This abend is issued by modules DCKCHBBF, DCKCHCRF, DCKCHCSF, DCKCHHDF, DCKCHMAE, DCKCHMBE, DCKCHQRF, DCKCHRKE, DCKCHRTE, DCKCHRXE, DCKCHRYE, DCKCHRZE, DCKCPPEE, DCKCRABE— PPCC has detected a protocol violation by the remote LU. An UNBIND (FE) has been sent unless an invalid type of UNBIND was received from the remote LU. If the UNBIND is sent, four bytes of sense data following the UNBIND type code indicate the specific violation. For a description of the sense data, refer to *Systems Network Architecture Formats*.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: To determine the cause, refer to *Systems Network Architecture Formats* for the SNA sense code. The problem may be in the VTAM network definition or in the printer or controller configuration. Otherwise, this PSF reason code may indicate a logic error in PSF, the printer, or the controller. A VTAM buffer trace will be needed to determine the failing component.

0F14

Explanation: This abend is issued by module DCKCPLEE— The remote LU has indicated that the host LU has sent invalid data. An FMH7 record has been received. For a description of the sense data, refer to *Systems Network Architecture Formats*.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: To determine the cause, refer to *Systems Network Architecture Formats* for the SNA sense code. The problem may be with the VTAM network definition or with the configuration of the printer or the controller. Otherwise, this PSF reason code may indicate a logic error in PSF, the printer, or the controller. A VTAM buffer trace will be needed to determine the failing component.

0F15

Explanation: This abend is issued by modules DCKCHBBF, DCKCHCAE, DCKCHCBE, DCKCHCRF, DCKCHCSF, DCKCHHDF, DCKCHRBE, DCKCHRKE, DCKCHRXE, DCKCHRYE, DCKCHRZE, DCKCHSIE, DCKCHSJE, DCKCPLEE, DCKCRABE— PPCC has detected an unexpected condition, which indicates an internal logic error.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F16

Explanation: This abend is issued by module DCKCRABE— The remote LU has indicated that the host LU has sent invalid data. An UNBIND (FE) has been received. Four bytes of sense data following the UNBIND type code indicate the specific violation. For a description of the sense data, refer to *Systems Network Architecture Formats*.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: To determine the cause, refer to *Systems Network Architecture Formats* for the SNA sense code. The problem may be a VTAM network definition problem or a problem with the configuration of the printer or the controller. Otherwise, this PSF reason code may indicate a logic error in PSF, the printer, or the controller. A VTAM buffer trace will be needed to determine the failing component.

0F17

Explanation: This abend is issued by modules DCKCHRXE, DCKCHRYE— The remote LU has indicated that the host LU has sent invalid data. The situation may be any of the following:

- An exception request has been received.
- A negative response has been received with an unexpected sense code.
- An RU (request/response unit) from the remote LU was larger than the maximum RU size.

For a description of any sense data sent or received, refer to *Systems Network Architecture Formats*.

System Action: PSF attempts to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System Programmer Response: To determine the cause, refer to *Systems Network Architecture Formats* for the SNA sense code. The problem may be with the VTAM network definition or with the configuration of the printer or the controller. Otherwise, this PSF reason code may indicate a logic error in PSF, the printer, or the controller. A VTAM buffer trace will be needed to determine the failing component.

0F18

Explanation: This abend is issued by module DCKCRABE— VTAM did not complete the operations requested, either because the operator has entered a Halt Net or a Cancel, or because VTAM itself is abending. In either case, VTAM is ending, and PSF cannot continue without VTAM.

System Action: PSF processing terminates abnormally.

System Programmer Response: After VTAM has been restarted, bring up PSF again.

Appendix A. Problem Determination

The following table presents the instructions associated with the problem determination responses listed in the Print Services Facility (PSF) messages. After completing the problem determination instructions associated with an error message, save the collected information for your IBM representative.

Item	System programmer's response
1	Save the console sheet from the primary console. For systems with remote consoles, save the remote console sheet. In systems with multiple console support (MCS), save a copy of the hard copy log.
2	Save the job stream associated with the job.
3	Save the system output (SYSOUT) associated with the job.
4	Ensure that the job step includes one of the following: SYSABEND DD statement SYSDUMP DD statement PL1DUMP DD statement SYSMDUMP DD statement
5	If SMP/E is used to make all the changes to the system, execute the LIST SYSMODS FORFMID(HPRF220) command of SMP/E to obtain a list of the current maintenance for PSF from the SMP consolidated software inventory, SMPCSI.
6	Execute the AMBLIST service aid program to obtain: An object module listing specifying the LISTOBJ function A load module map and cross reference listing, specifying the OUTPUT = BOTH option of the LISTLOAD function
7	Execute the MVS DUMP command to dump the contents of real storage and page data sets to a dump data set. To format the dump, execute the appropriate function of the AMDPRDMP service aid program or Interactive Problem Control System (IPCS) to print the required part of the dump data set that is produced by the MVS DUMP command. Should further information from the data set be required, save both the data set from the MVS DUMP and the listing from AMDPRDMP or IPCS.
8	Save all the associated output.
9	Save the dump.
10	Have the system generation (SYSGEN) output available from: Stage I Stage II
11	Execute the EREP service aid to dump the SYS1.LOGREC data set, and save the resulting output. For MSS, execute the following program to dump the SYS1.LOGREC data set: Service aid IFCISDAO Program ISDASDAO with the DETAIL(ALL) parameter
12	Save the control card associated with the job.
13	Save the source input associated with the job.
14	Execute the system utility program to obtain a list of the following: Volume table of contents of the associated volume, specifying the FORMAT option Volume table of contents of the associated volume, specifying the DUMP option Directory of the associated data set

Item	System programmer's response
15	Execute the IEBPTPCH data set utility to print the following: Directory of the applicable data set Applicable data set Applicable member Applicable procedure
16	Have the linkage editor/loader map available.
17	To report a possible software error, consult your IBM Support Center.
18	To report a possible hardware error, consult your IBM customer engineer.
19	Take a PSF full trace output data set.
20	Print the associated SVC dump data set by using the ABSDUMP service aid with the GO statement.
21	Execute the AMASPZAP service aid program, using the ABSDUMP statement, to print the contents of the applicable: Data set Track
22	Use the IEBCOPY to unload the SYS1.IMAGELIB to tape.
23	Consult your IBM system engineer.
24	Have the JES initialization output available.
25	Take a PSF SYNC trace output data set.
26	Save PSF system task output.
27	Take a PSF dump on this message, and ensure that an internal PSF trace is in the dump (TRACE=YES).
28	Save the security definitions library member.
29	Take a PSF notify subtask (NST) trace output data set.
30	If running under JES3, take a PSF dump to obtain additional information contained in the JES3 FSS/FSA trace tables.
31	On OS/390, verify the enable/disable state of PSF with the command D PROD,STATE, and save the system log.

Glossary

Source Identifiers

This publication includes terms and definitions from the *IBM Dictionary of Computing*, ZC20-1699.

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Definitions that are specific to IBM products are so labeled, for example, "In SNA," or "In the 3820."

References

The following cross-references are used in this glossary:

Contrast with. This refers to a term that has an opposite or substantively different meaning.

See. This refers to multiple-word terms in which this term appears.

See also. This refers to related terms that have similar, but not synonymous, meanings.

Synonym for. This appears in the commentary on a less desirable or less specific term and identifies the preferred term that has the same meaning.

Synonymous with. This appears in the commentary on a preferred term and identifies less desirable or less specific terms that have the same meaning.

A

abend. An abnormal end of task before the task is complete, which occurs because of an error condition and which cannot be recovered while the task is running.

access control. In computer security, the methods and facilities used to ensure that a computer system and the data, system software, and application programs stored in it can be accessed only by authorized users in authorized ways.

access method. A method for moving data between main storage and I/O devices.

accumulator. (1) A 3800 hardware feature that supplies a separate storage area to hold data in raster form. It can be used either for composing a sheet of data that combines a large amount of variable and constant data, or for storing an electronic overlay in raster form so that the overlay is merged with variable data as the page is printed. (2) A register in which the result of an operation is formed.

ACK. Acknowledgment.

action code. A software-generated or hardware-generated code that indicates a recovery action. The hardware action code is byte 2 of the sense data.

active environment group. A collection of mapping structured fields, positioning controls, and data descriptors that define the environment for a page. These structured fields form an internal object in MO:DCA data, page definition, or overlay.

addressable point. For page printers, any point in a presentation surface that can be addressed. Synonymous with *picture element*.

Advanced Function Presentation (AFP). A set of licensed programs, together with user applications, that use the all-points-addressable concept to print on presentation devices. AFP includes creating, formatting, archiving, retrieving, viewing, distributing, and printing information. See *presentation device*.

AFP. Advanced Function Presentation.

all-points-addressable (APA). The ability to address, reference, and position text, overlays, and images at any defined position or pel on the printable area of the

paper. This capability depends on the ability of the hardware to address and display each picture element.

APA. All-points addressable.

APAR. Authorized program analysis report.

application program. A program written for or by a user that applies to the user's work, such as a program that does inventory control or payroll.

asynchronous. Without regular time relationship; unexpected or unpredictable with respect to running program instructions.

authorized program analysis report (APAR). A report of a problem caused by a suspected defect in a current unaltered release of a program.

auxiliary data set. A data set that contains job header, data set header, job trailer, or message data. Contrast with *print data set*.

auxiliary resource. Fonts, page segments, overlays, page definitions, or form definitions associated with auxiliary data sets.

B

baseline. In a font, the imaginary line on which successive characters are aligned in the inline direction.

bin. A paper supply on cut-sheet printers. See also *cassette*.

BIND. The command sent by VTAM to a logical unit to establish a VTAM program-to-logical unit session.

bounded-box font. A font designed to use bounded character boxes. Contrast with *unbounded-box font*.

bounded-box relative metrics. Units of measure that are expressed in 1 000 units per Em-square.

bounded character box. A character-box design that does not require character positioning information to be included (as untuned pels) within the box. Contrast with *unbounded character box*.

BTS. Burster-trimmer-stacker.

buffer pool. An area of storage in which all the buffers of a program are kept.

buffered pages. Pages kept in printer control storage, waiting to be printed.

burst. To separate continuous-forms paper into single sheets.

burster-trimmer-stacker (BTS). A printer hardware feature that separates continuous forms into single sheets, trims the carrier strip from both edges of the forms, and stacks the sheets.

byte multiplexer channel. A multiplexer channel that interleaves bytes of data.

C

carriage control character. An optional character in an input data record that specifies a write, space, or skip operation.

cassette. In a cut-sheet printer, a movable paper storage enclosure. See also *bin*.

CCW. Channel command word.

CDS. Control data set.

channel-attached. In PSF, a device that is linked to the host system only by use of System/390 channel protocols. For example, a 3800 printer cabled to the host system with a System/390 channel adapter is considered a channel-attached printer. Contrast with *SNA-attached*.

channel code. A number from 1 to 12 that identifies a position in the forms control buffer or a page definition. A carriage control character can select a position defined by a particular channel code.

channel control word (CCW). A command that directs data channel operations. CCWs built by Print Services Facility are sent to channel-attached printers.

channel counter. A counting device that identifies how many pages have been successfully received. Synonymous with *received page counter*.

channel station. In the printer, a page-counting device that counts the number of pages queued for printing.

character. (1) A symbol used in printing; for example, a letter of the alphabet, a numeral, a punctuation mark, or any other symbol that represents information. (2) A byte of data.

character box. The area that completely contains the graphic character raster pattern.

character data. Data in the form of letters and special characters, such as punctuation marks. See also *numeric data*.

character graphic. A visual representation of a character, other than a control character, that is normally produced by writing, printing, or displaying. (T)

character group. Any number of character graphics and character properties.

character identifier. The standard identifier for a character, regardless of its style. For example, all uppercase A's have the same character identifier. Synonymous with *graphic character identifier*.

character increment. The distance between the current print position and the next print position.

character rotation. The alignment of a character with respect to the baseline, measured in degrees in a clockwise direction. Examples are 0°, 90°, 180°, and 270°.

character set. (1) A finite set of characters upon which agreement has been reached and which is considered complete for some purpose; for example, each of the characters in ISO Recommendation R646 "6- and 7-bit coded character sets for information processing interchange." (2) For page printers, the font library member that contains the character graphics and their descriptions.

checkpoint. A point at which information about the status of a job and the system can be recorded so that the job step can be restarted later. For any print job, the user can specify that PSF for OS/390 take checkpoints on the basis of either the number of logical pages processed or the number of processing seconds elapsed.

coded font. A font library member that associates a code page and a font character set. For double-byte fonts, a coded font associates more than one pair of code page and font character sets.

coded font local identifier. A 1-byte identifier that the Map Coded Font structured field assigns to each coded font it selects. The identifier is then specified in the text-control sequence that precedes the string of text to be printed with the particular font.

coded font section. A font character set and code page pair. A single-byte coded font consists of only one coded font section; a double-byte coded font can consist of more than one.

coded overlay. An overlay that is stored in the printer in a coded (not raster) format. Contrast with *raster pattern overlay*.

code page. A font component that associates code points and character identifiers. A code page also identifies how undefined code points are handled.

code point. A 1-byte code representing one of 256 potential characters.

color selection. The ability to specify a color other than black to print data in more than one color. Some printers support the selection of several colors, depending upon the color of ribbon installed in the printer. Other printers support the selection of black or "color of media," that can cause white lettering on a background that has been shaded black, for example.

command. A request from a terminal or a specification in a batch-processing job for the performance of an operation or the execution of a particular program.

committed copy counter. A counting device that identifies the number of copies of a page that have been committed to printing but have not been counted by the committed page counter.

committed page counter. A counting device that identifies the number of pages that have been committed to printing and have been removed from the page buffer. Synonym for *transfer counter*.

common-use forms. A set of paper sizes selected as being the most commonly used throughout the world.

communication. See *data communication*.

communication attached. In PSF, a device that is SNA-attached and that uses a communication controller. For example, a 3812 printer attached to a 3174 control unit that is attached to a 3175 Communication Controller can be considered to be a communication-attached printer. Contrast with *local attached*.

compatibility font. An AFP font designed to emulate the uniformly spaced and fixed-pitch fonts used with line printers.

compatibility mode. A mode of operation for printing the output of 3800 Model 1 application programs on a 3800 page printer with little or no change to the application or JCL.

completion code. An indication, reflecting the status of a task, that was set at the time when that task terminated.

compressed pattern storage (CPS). Storage that holds the extended (double-byte) fonts for the 3800 Model 6 or Model 8 printer.

computing system RPQ. A customer request for a price quotation on alterations or additions to the functional capabilities of a computing system, hardware product, or device. The RPQ may be used in conjunction with programming RPQs to solve unique data processing problems. See also *programming RPQ* and *RPQ*.

concatenate. (1) To link together. (2) To join two character strings.

concatenated data set. In MVS and OS/390, a group of logically connected data sets that are treated as one data set for the duration of a job step. See also *data set*, *partitioned data set*, and *library*.

conditional processing. A page definition function that enables input data records to partially control their own formatting.

condition code. A code that reflects the result of an input/output, arithmetic, or logical operation.

console. A part of a computer used for communication between the operator or maintenance engineer and the computer. (A)

continuous forms. A series of connected forms that feed continuously through a printing device. The connection between the forms is perforated so that the user can tear them apart. Before printing, the forms are folded in a stack arrangement with the folds along the perforations. Contrast with *cut-sheet paper*.

continuous-forms stacker. An output assembly on a continuous-forms printer that refolds and stacks the continuous forms after printing.

control character. A character that starts, changes, or stops any operation that affects recording, processing, transmitting, or interpreting data (such as carriage return, font change, and end of transmission).

control record. A subset of structured fields that can be intermixed with line data records in a print data set.

copy group. One or more copies of a page of paper. Each copy can have modifications, such as text suppression, page position, forms flash, and overlays.

copy modification. The process of adding, deleting, or replacing data on selected copies of certain pages of a print job.

copy separation. The method for distinguishing consecutive copies of a single data set. In the continuous-forms stacker, the method consists of the alternation between one, two, or three vertical bars placed on the left carrier strip between forms. In the burster-trimmer-stacker, or on cut-sheet paper, it consists of offset stacking.

core interchange font. A uniformly spaced, typographic font with specialized characters for different languages.

CPS. Compressed pattern storage.

current print position. The picture element that defines the character reference point or the upper left corner of an image.

cut-sheet paper. Paper that is cut into separate sheets before being printed on. Contrast with continuous-forms paper.

D

DASD. Direct access storage device.

data check. A synchronous indication of a condition caused by invalid data or incorrect positioning of data. Reporting of some data checks can be suppressed.

data communication. Transfer of information between functional units by means of data transmission according to a protocol. (I)

data control block (DCB). A control block used by access method routines in storing and retrieving data.

data link. Connection between two terminals operating according to a link protocol. Contrast with *telecommunication line*.

data map. An internal object in a page definition that specifies fonts, page segments, fixed text, page size, and the placement and orientation of text. Synonymous with *page format*.

data map transmission subcase. An internal object that specifies the information for printing line data. One data-map transmission subcase must appear in each data map of a page definition.

data set. Synonym for file.

data set header. A page in printed output that separates multiple data sets or multiple copies of a data set within a print job. See also *job header*.

DCB. Data control block.

DCF. Document Composition Facility.

default. Pertaining to an attribute, value, or option that is assumed when none is explicitly specified. (I)

deferred-printing mode. A printing mode that spools output through JES to a data set instead of printing it immediately. Output is controlled using JCL statements. Contrast with *direct-printing mode*.

device manager. For channel-attached printers, the PSF subcomponent that manages the interface to the printer, builds CCWs, issues I/O requests, and processes I/O interrupts. For SNA-attached printers, the PSF subcomponent that loads the PPCC during device

initialization, processes completed I/O, establishes and controls an SNA session through the PPCC, and supplies printer information in the CCB.

direct access storage device (DASD). A computer storage device in which access time is effectively independent of the location of the data.

Direct Printer Services Subsystem (DPSS). The PSF subcomponent that is the interface between PSF and an application program when the job entry subsystem is not spooling jobs for a printer. DPSS attaches PSF as a subtask for use in the direct-printing mode.

direct-printing mode. A printing mode that allows PSF exclusive use of a channel-attached printer. Output is printed immediately and is not spooled through JES. Contrast with *deferred-printing mode*.

disabled mechanism. PSF support that enables jobs to print with alternative options if the printer selected for the job does not support a requested option.

Distributed Print Function (DPF). A component of PSF/2 that you can install and use to print jobs from OS/390, MVS, VSE, VM, or OS/400 systems. DPF receives PSF output and resources for spooling and printing with PSF/2. DPF enables PSF for OS/390, PSF/VSE, PSF/VM, and PSF/400 to send print files to a PS/2. DPF also stores PSF for OS/390 and PSF/VSE resources in the DPF resource library, so that the host system does not have to send PSF resources each time documents are spooled.

document. (1) A publication or other written material pertaining to a specific subject or related subjects. (2) In word processing, a collection of one or more lines of text that can be named and stored as a separate entity.

Document Composition Facility (DCF). An IBM licensed program that provides a text formatter called SCRIPT/VSE. SCRIPT/VSE can process files marked up with a unique set of controls and tags.

document environment group. An internal object that identifies overlay and suppression usage and defines the placement of the page or pages on the form. A document environment group is a required part of every form definition.

double-byte coded font. A font in which the characters are defined by 2 bytes; the first defines a coded font section, and the second defines a code point. To support a language requiring more than 256 graphic characters, double-byte coded fonts are required. Two bytes are required to identify each graphic character. Kanji is printed using a double-byte font. Contrast with *single-byte coded font*.

double-dot image. In Advanced Function Presentation, an image that is enlarged by doubling the pel pattern horizontally and vertically.

download. To transfer data from a processing unit to an attached device such as a microcomputer for processing.

DPF. Distributed Print Function.

DPSS. Direct Printer Services Subsystem.

drain. An operator action to halt the flow of jobs to a printer, usually to stop the printer or to change print options.

drained state. The condition in which job flow to the printer is stopped, waiting for an operator command, such as START, to begin sending jobs to the printer for it to resume printing.

DRM. Dynamic reconfiguration management.

duplex printing. Printing on both sides of a sheet of paper. Contrast with *simplex printing*. See also *normal duplex printing* and *tumble duplex printing*.

E

EBCDIC. Extended binary-coded decimal interchange code.

ECB. Event control block.

EID. Event ID.

electronic forms. A collection of constant data that is electronically composed in the host processor and may be merged with variable data on a page during printing.

electronic overlay. A collection of constant data, such as lines, shading, text, boxes, or logos, that is electronically composed in the host processor and stored in a library, and that can be merged with variable data during printing. Contrast with *page segment*. See also *page overlay* and *medium overlay*.

embedded text control. One or more bytes of control information within a set of text. The text control itself is not to be printed, but it controls certain operations on following text.

enabled. (1) Pertaining to a state of the processing unit that allows the occurrence of certain types of interruptions. (2) A condition of the printer (physically selected) in which the printer is available to the host processor for normal work. Contrast with *disabled*.

end-user interface. Any product method that enables a customer to obtain the services of a product; for

example, coding samples, commands and command lists, control statements, display panels, job control language, listings of data streams, messages, program link-editing control statements, and text-formatting commands. Not all products have end-user interfaces; some products provide their services through programming interfaces; others provide their services only to other products. Contrast with *programming interface for customers*.

equipment check. An asynchronous indication of a printer malfunction.

ERP. Error recovery procedures.

error recovery procedures (ERP). Procedures designed to help isolate and, where possible, to recover from errors in equipment. The procedures are often used in conjunction with programs that record information on machine malfunctions.

ESA. Enterprise System Architecture.

escape character. The control character X'2BD3' in a text-control sequence that indicates the beginning of the sequence and the end of any preceding text.

ESTAE. Extended specify task abnormal exit.

ETFF. Eject to front facing.

event control block (ECB). A control block used to represent the status of an event.

EWS. Early warning system.

execution. The process of carrying out an instruction or instructions of a computer program by a computer. (I)
(A)

exception. A condition that exists when the printer:

- Detects an invalid or unsupported command, order, control, or parameter value from the host
- Finds a condition requiring host-system notification
- Detects a condition that requires the host system to resend data.

exception highlighting. The markings placed on the printed page to indicate the location of a data-stream error.

extended binary-coded decimal interchange code (EBCDIC). A coded character set of 256 eight-bit characters.

ES of OS/2. Extended Services of Operating System/2.

extended specify task abnormal exit (ESTAE). A macroinstruction that enables a user to intercept a scheduled abend.

F

FCB. Forms control buffer.

fixed metrics. Measurement information in specific units such as pels, inches, or centimeters for individual graphic characters or collections of them. Contrast with *relative metrics*. See also *font metrics*.

floating overlay. Synonym for *page overlay*.

font. A family or assortment of characters of a given size and style, for example, 9-point Bodoni Modern.
(A)

font character set. Synonym for *character set*.

font metrics. Measurement information that defines individual character values such as height, width, and space, as well as overall font values, such as averages and maximums. Font metrics may be expressed in specified fixed units, such as pels, or in relative units that are independent of both the resolution and size of the font. See also *character metrics*.

font section. Synonym for *coded font section*.

form. A division of the physical medium; multiple forms can exist on a physical medium. For example, a roll of paper might be divided by a printer into rectangular pieces of paper, each representing a form. An envelope is a physical medium that comprises only one form. The IPDS architecture defines four types of forms: cut-sheets, continuous forms, envelopes, and computer output on microfilm. Each type of form has a top edge. A form has two sides, a front side and a back side. Synonymous with *sheet*.

format. (1) A specified arrangement of such things as characters, fields, and lines, usually used for displays, printouts, or files. (2) To arrange such things as characters, fields, and lines. (3) (v.) To prepare a document for printing in a specified format.

formatted print records. Line data made up of records that are formatted for printing on line printers. PSF uses a page definition to print formatted records on page printers.

FORMDEF. A JCL parameter that specifies a form definition. See *form definition*.

form definition. A resource used by PSF that defines the characteristics of the form that includes overlays to be used (if any), paper source (for cut-sheet printers), duplex printing, text suppression, the position of MO:DCA data on the form, and the number and modifications of a page.

forms control buffer (FCB). A buffer for controlling the vertical format of printed output. The forms control buffer is a line-printer control that is similar to the punched-paper, carriage-control tape used on IBM 1403 printers. On AFP page printers, the forms control buffer is replaced by the page definition. See *page definition*.

forms flash. In the 3800, the function of the printer that enables printing of user-prepared photographic images as variable MO:DCA data. The printer operator must insert a frame containing a photographic negative into the printer when forms flash is used.

FSA. Functional subsystem application.

FSI. Functional subsystem interface.

FSS. Functional subsystem.

functional subsystem (FSS). The PSF address space created by JES.

functional subsystem application (FSA). An area within the PSF functional subsystem that drives and manages a single printer.

functional subsystem interface (FSI). A set of services that enables communication between the JES address space or direct printer services subsystem and the PSF functional subsystem.

fuser counter. A counting device in a printer that identifies how many pages have successfully passed the printer-defined jam-recovery point. See *jam-recovery page counter*.

fuser station. The printer assembly that bonds the toned image to the paper by heat and pressure.

G

generalized trace facility (GTF). An optional OS/VS service program that records significant system events, such as supervisor calls and start I/O operations, for the purpose of problem determination.

Global resource identifier (GRID). An 8-byte identifier that identifies a coded font resource. A GRID contains the following fields in the order shown:

- GCSGID of a minimum set of graphic characters required for presentation. It can be a character set that is associated with the code page, with the font character set, or with both.
- CPGID of the associated code page
- FGID of the associated font character set
- Font width in 1440ths of an inch

graphic character. See *character graphic*.

graphic character identifier. See *character identifier*.

GRID. See *global resource identifier*.

GTF. Generalized trace facility.

H

hardcopy. (1) A copy of a display image that is generated on an output device such as a printer or a plotter, and that can be carried away. (T) (2) A printed copy of machine output in a visually readable form, for example, printed reports, listings, documents, and summaries.

hard page segment. (1) A page segment that is declared in the Map Page Segment structured field and loaded in the printer as a resource that can be reused during the job without being reloaded to the printer. (2) Within another element, as in inline resource. Contrast with *soft page segment*.

hardware default font. The font used by the printer if no other font is specified.

HCD. Hardware configuration definition.

hexadecimal. Pertaining to a numbering system with base of 16; valid numbers use the digits 0 through 9 and characters A through F, where A represents 10 and F represents 15.

Host font. See *host resource*.

host processor. The processing unit to which the page printers are attached through a data-transfer interface.

host resource. A resource found in a system library, in a user library, or inline in the print data set.

host system. (1) A data processing system that prepares programs and the operating environments for another computer or controller. (2) The data processing system to which a network is connected and with which the system can communicate.

I

identification label. In PSF, a protected set of resources (fonts, overlays, page segments) that are used to label PSF output for security purposes. Contrast with *security label*.

image. A pattern of toned and untoned pels that form a picture.

image block. A structure that contains the raster pattern and the instructions for placing the pattern on the page.

image cell. A portion of an image that saves storage by defining only part of a raster pattern. Each image cell must also contain information that defines the placement of its raster pattern within the complete image. An image cell can be replicated to fill a defined area.

image data. A pattern of bits with 0 and 1 values that define the pels in an image. (A 1-bit is a toned pel.)

imbedded text control. See *embedded text control*.

IML. Initial microprogram load.

impact printer. A printer in which printing results from mechanical impacts. Contrast with *nonimpact printer*.

initial microprogram load (IML). (1) The action of loading microprograms into computer storage. (2) The action of loading licensed internal code from a diskette to writable control storage.

initial program load (IPL). (1) The initialization procedure that causes an operating system to begin. (2) The process of loading system programs and preparing a system to run jobs.

initialize. (1) In programming languages, to give a value to a data object at the beginning of its lifetime. (I) (2) To set counters, switches, addresses, or contents of storage to zero or other starting values at the beginning of, or at prescribed points in, the operation of a computer routine. (A) (3) To prepare for use, for example, to initialize a diskette. See also *initial program load*.

inline. The direction of successive characters in a line of text. Synonymous with *inline direction*.

inline direction. The direction of successive characters in a line of text.

inline resource. A resource in the print data set.

input/output (I/O). Pertaining to a device whose parts can perform an input process and an output process at the same time. (I)

installation exit. The subcomponent that calls exits, provides defaults for job header, trailer, and data-set header separator-page exits, and supports customer-written exits for logical records, SMF records, message processing, and resource management.

intelligent printer data stream (IPDS). An all-points-addressable data stream that enables you to position text, images, and graphics at any defined point on a printed page.

interface. A shared boundary. An interface can be a hardware component used to link two devices, or it can

be a portion of storage or registers accessed by two or more computer programs.

interleaving. (1) The simultaneous accessing of two or more bytes or streams of data from distinct storage units. (2) The alternating of two or more operations or functions through the overlapped use of a computer family.

internal object. Groups of structured fields that can be included as part of a resource or a print data set but cannot be accessed separately.

intervention required exception. An error that causes printing to stop until an operator performs a required action.

I/O. Input/output.

I/O error manager. The PSF subcomponent that analyzes I/O errors, determines the recovery action, and directs I/O error recovery and cleanup.

IOS. I/O supervisor.

IPDS. Intelligent printer data stream.

IPL. Initial program load.

ISO forms. Pertaining to a set of paper sizes selected from those made standard by the International Organization for Standardization for use in data processing.

J

jam recovery copy counter. A counting device in a printer that identifies how many copies of a page have successfully passed the printer-defined jam recovery point but have not been counted by the jam recovery page counter.

jam recovery page counter. A counting device in a printer that identifies how many pages have successfully passed the printer-defined jam recovery point. See also *fuser counter*.

JCL. Job control language.

JES. Job entry subsystem.

job control language (JCL). A language of control statements used to identify a computer job or describe its requirements to the operating system.

job entry subsystem (JES). An OS/390 and MVS subsystem that receives jobs into the system, converts them to internal format, selects them for execution, processes their output, and purges them from the system.

job header. A page in the printed output that indicates the beginning of a user job. A job can contain one or more data sets. See also *data set header*.

job separation. The ability to identify job boundaries by placing marks or sheets of paper between successive jobs.

job trailer. A page in the printed output that indicates the end of a user job.

K

kanji. Nonphonetic Chinese characters used in Japanese written language. In a font representing kanji characters, each character is represented by a double-byte font.

kerning. The printing of adjacent graphic characters so that they overlap on the left or right side.

L

landscape page presentation. The position of a printed sheet that has its long edges as the top and bottom and its short edges as the sides. Contrast with *portrait page presentation*.

LASI. Library access system interface.

library. A file or a set of related files, for example, a page definition library containing one or more page definition files. A library often exists as a partitioned data set in MVS and OS/390 and as a minidisk in VM.

library access system interface (LASI). The PSF subcomponent that gets resources from the libraries and stores and obtains records in a message data set.

library member. Synonym for *resource object*.

ligature. A single character representing two or more input characters. For example, *ff* and *ffi* are characters that may be presented as a ligature.

line data. Data prepared for printing on a line printer such as a 3800 Model 1 Printing Subsystem. Line data is usually characterized by carriage control characters and table reference characters. Contrast with MO:DCA-P data.

line descriptor. Specifications that describe how input data records are formatted into individual print lines. Line descriptors are interpreted by PSF when formatting printed output.

line merging. Printing two or more records of line data at the same location on the page. Line merging is used with line data to mix different fonts on the same line, to

underscore or overstrike, and on impact printers to create darker print.

line printer. A device that prints a line of characters as a unit. (l) (A) Contrast with *page printer*.

lines per inch (lpi). (1) A unit of measurement for the specification of baseline placement. (2) A measure of the number of line per vertical inch of paper.

local attached. In PSF, an SNA-attached device that does not have a communications controller in its configuration. For example, a 3812 printer connected to a channel-attached 3174 control unit that is defined to the host system through VTAM is considered a local-attached printer. Contrast with *communication attached*.

local identifier. A 1-byte identifier assigned to parts of the data stream to facilitate PSF processing. For example, the Map Coded Font structured field assigns each coded font a local identifier. When a coded font is required for processing, this identifier is specified in the Set Coded Font Local text control.

logical page. A presentation space. One or more object areas or data blocks can be mapped to a logical page. A logical page has specifiable characteristics, such as size, shape, orientation, and offset and is rectangular in shape. Orientation and offset are specified relative to a medium coordinate system.

logical page origin. (1) The point on the logical page from which positions of images, graphics, page overlays, and text with 0-degree inline direction are measured. (2) The point on the logical page represented by Xp=0, Yp=0 in the Xp coordinate system.

logical unit (LU; L-unit). (1) In SNA, a port through which an end user accesses the SNA network to communicate with another end user and through which the end user accesses the functions provided by system services control points (SSCP). A logical unit can support at least two sessions, one with an SSCP and one with another logical unit, and may be able to support many sessions with other logical units. (2) A unit of linear measurement. For example, in Mixed Object Document Content Architecture (MO:DCA) and AFP data streams, the following measurements are used:

- 1 L-unit = 1/1440 inch
- 1 L-unit = 1/240 inch

logon mode. In VTAM, a subset of session parameters specified in a logon-mode table for communication with a logical unit.

logon-mode table. In VTAM, a table of macro-generated constants that associate a logon-mode

name with a set of session parameters. Each logon mode is identified by a logon-mode name.

lpi. Lines per inch.

LU (logical unit) base. The linear measurement base. The value defines, for any object, the meaning of the L-unit values. See also *logical unit*.

L-unit. See *logical unit*.

LU type 1. An SNA logical unit type that provides a communication protocol among host application programs and terminals. Some printers also use this protocol to communicate with host application programs.

LU type 6.2. An SNA logical unit type that converges functions from existing LU types to provide a single, interchangeable communication protocol. See also *Page Printer Communication Component*.

M

macro. Synonym for *macroinstruction*.

macroinstruction. An instruction that causes the execution of a predefined sequence of instructions.

magnetic ink character recognition (MICR). Recognition of characters printed with ink that contains particles of a magnetic material.

mandatory print labeling (MPL). A class defined to the resource access control facility (RACF) that causes PSF to automatically perform separator page labeling, data page labeling, and the enforcement of the user-printable area.

marking. A method that refers to the updating of certain structured fields that identifies a resource as printer-resident.

media origin. The first hardware addressable point on the physical page. The point from which the logical page origin is positioned by the medium map. This point is represented by $X_m=0, Y_m=0$ in the X_m, Y_m coordinate system. The media origin is defined relative to the top edge of the media.

medium map. An internal object in a form definition that controls the modifications to a form, page placement, and overlays. Synonymous with *copy group*.

medium overlay. An electronic overlay that is invoked by the medium map of a form definition for printing at a fixed position on the form. See *page overlay*.

member ID. The member name of a resource object minus the 2-character prefix. For example, BITR is the member ID of the font whose member name is X1BITR.

member name. The name under which a file is stored in a library. For example, X1BITR is the member name of a font in the font library.

message data set. (1) A data set on disk storage that contains queues of messages awaiting transmission to particular terminal operators or to the host system. (2) In PSF, a virtual data set built by LASI in memory to store error messages for printing at the end of the document.

MICR. Magnetic ink character recognition.

metrics. Synonym for *font metrics*.

microfilm device. An output device that presents a hardcopy on microfilm.

microfilm setup resource. A setup file that contains information used to present AFP data on microfilm.

Mixed Object Document Content Architecture. A strategic, architected, device-independent data stream for interchanging documents.

MO:DCA data. Print data that has been composed into pages. Text formatting programs such as DCF can produce composed text data consisting entirely of structured fields.

MO:DCA data page. A page of print data consisting entirely of structured fields.

MO:DCA print data set. A print data set consisting entirely of structured fields.

MO:DCA data definition. A resource containing a set of formatting controls for printing logical pages of data. Includes controls for number of lines per printed sheet, font selection, print direction, and mapping individual fields in the data to position on the printed sheets.

mixed-pitch font. A font that simulates a typographic font. The characters are in a limited set of pitches; for example, 10-pitch, 12-pitch, and 15-pitch.

modified-default form definition. A form definition that was the default specified in the PRINTDEV statement of the PSF startup procedure modified by the groupvalue parameter of the COPIES parameter or by the FLASH parameter in the JCL statement.

modified-default page definition. A page definition that was the default specified in the PRINTDEV statement of the PSF startup procedure modified by a font list specified in the:

- CHARS parameter from the user JCL or PRINTDEV statement
- UCS parameter from the user JCL

- JES default font in the current printer setup

MO:DCA. Mixed Object Document Content Architecture.

MO:DCA-P. Mixed Object Document Content Architecture for Presentation.

MOF. See *4028 Font Metrics*.

monospaced font. A font in which the graphics characters have a uniform character increment. Synonymous with *uniformly spaced font*. Contrast with *proportionally spaced font*.

MPL. Mandatory print labeling.

multiple-entry font. A font with multiple entries in the Map Coded Font structured field. The only fonts that have multiple entries are double-byte fonts that are defined dynamically. (The MCF points directly to a set of code page and font character set pairs.)

multiple-up. The printing of more than one page of application data on a single surface of a sheet of paper.

multiplexer. (1) A device that takes several input signals and combines them into a single output signal in such a manner that each of the input signals can be recovered. (T) (2) A device capable of interleaving events of two or more activities or capable of distributing events of an interleaved sequence to the respective activities. (A)

multiplexer channel. A channel designed to operate with a number of I/O devices simultaneously. Several I/O devices can transfer records at the same time by interleaving items of data.

multiplexing. In data transmission, a function that permits two or more data sources to share a common transmission medium so that each source has its own channel. (I) (A)

multipoint network. More than two devices sharing the same transmission line at the same time.

MVSCP. MVS Configuration Program.

MVS/ESA. Multiple Virtual Storage/Enterprise System Architecture.

N

NACK. Negative acknowledgment.

NCP. Network Control Program.

NCP generation. The process performed in the host processor of assembling and link-editing a

macroinstruction program to produce a Network Control Program.

nested resource. A resource mapped in an overlay.

Network Control Program (NCP). An IBM licensed program that provides communication controller support for single-domain, multiple-domain, and interconnected network capability.

nonimpact printer. A device in which printing is not the result of mechanical impacts; for example, thermal printers, electrostatic printers, and photographic printers. (I) (A) Contrast with *impact printer*.

nonprocess runoff (NPRO). An operation that moves paper through the paper path without printing.

nonswitched line. A telecommunication line on which communications do not have to be established by dialing. Contrast with *switched line*.

normal duplex printing. Printing on both sides of the paper so that the sheets can be bound on the long edge of the paper. Contrast with *simplex printing*. See also *tumble duplex printing*.

notify subtask (NST). (1) A PSF subcomponent that returns processed data sets to JES or Direct Printer Services Subsystem and performs checkpoint processing on data sets as they are printed. (2) An external trace that contains information pertaining to the releasing and checkpointing of data sets by PSF.

NPRO. Nonprocess runoff.

NST. Notify subtask.

null name. A token name with X'FFFF' in the first 2 bytes.

null value. A parameter for which no value is specified.

numeric data. (1) Data represented by numerals. (2) Data in the form of numerals and special characters. For example, a date represented as 81/01/01. See also *character data*.

N_UP printing. In basic N_UP printing, the dividing of a side of a sheet into a fixed number of equal-size partitions. For example, N_UP 4 divides each side of the sheet into 4 equal partitions. In enhanced N_UP printing, the sheet can be divided into 8 partitions, which can be located anywhere on a sheet.

O

object. A resource or a sequence of structured fields within a larger entity, such as a page segment or a composed page.

object container. A set of structured fields used to carry object data for a variety of objects.

offset stacking. A function that allows the printed output pages to be offset for easy separation of print jobs.

OGL/370. Overlay Generation Language/370.

option. (1) A specification in a statement that may be used to influence the execution of the statement. (2) A choice offered from a list of possibilities.

orientation. The number of degrees an object is rotated relative to a reference: for example, the orientation of an overlay relative to the logical page origin. This usually applies to blocks of information. Character rotation applies to individual characters. See also *text orientation*.

origin. A pel position from which the placement and orientation of text, images, and page segments are specified. For example, pages, overlays, and page segments have origins.

outline font. A font technology in which the graphic character shapes are represented in digital form by a series of mathematical expressions that define the outer edges of the strokes. The resulting graphic character shapes can be either solid or hollow. Outline fonts can be scaled (sized) to any size. The names of the IBM outline font character sets have CZ as their prefix. Contrast with *raster font*.

overlay. See *electronic overlay*.

Overlay Generation Language/370 (OGL/370). An IBM licensed program used to create overlays.

P

page. A collection of data that can be printed on a physical sheet of paper.

PAGEDEF. A JCL parameter that specifies a page definition. See *page definition*.

page environment. The size of the page or overlay control data to be used in MO:DCA data text blocks, and the page segments or fonts to be used.

page format. A subset of a page definition, containing controls governing the arrangement of text on a page.

page mode. The mode of operation in which a page printer can accept a page of data from a host processor to be printed on an all-points-addressable output medium. Data may consist of pages composed of text, images, overlays, or page segments.

page origin. See *logical page origin*.

page overlay. An electronic overlay that can be invoked for printing and positioned at any point on the page by an Invoke Page Overlay structured field in the print data. See *medium overlay*.

page position. A control in the copy group to assign the top left boundary point of the logical page on a sheet for a data set. The page position is determined from the media origin.

page printer. Any of a class of printers that accepts MO:DCA-P pages, constructed of page data and images, among other things. Contrast with *line printer*.

Page Printer Communication Component (PPCC). The access method that provides the SNA communication interface between printers and PSF.

Page Printer Formatting Aid (PPFA). An IBM licensed program that you can use to create and store form definitions and page definitions.

page segment. A resource containing MO:DCA data and images, prepared before formatting and included during printing.

paging. (1) The transfer of pages between real storage and auxiliary storage. (l) (A) (2) In System/390 virtual storage systems, the process of transferring pages between real storage and external page storage.

parameter. (1) A variable that is given a constant value for a specified application and that may denote the application. (l) (A) (2) An item in a menu for which the user specifies a value or for which the system provides a value when the menu is interpreted. (3) Data passed between programs or procedures.

partial page. A page that does not contain all the intended data. Partial pages can be printed after an error is sensed.

partition. In basic N_UP printing, the division of the medium presentation space into a specified number of equal-sized areas in a manner that depends on the current physical medium.

partitioned data set (PDS). A data set in direct access storage that is divided into partitions, called members, each of which can contain a program, part of a program, or data. Contrast with *sequential data set*.

pass-through. To gain access to another network.

pattern storage (PST). An area of storage that holds the raster patterns for fonts and images.

PDS. Partitioned data set.

pel. Picture element.

pending page queue (PPQ). In PSF, a list of pages that have been processed by PSF but have not been released from JES.

Personal System/2. IBM's personal computers that use an 80286, 80386, or 80486 processor.

physical medium. A physical entity on which information is presented. Examples of physical media are display screens, paper, foils, microfilm, and labels.

physical unit (PU). The part of a communication controller or cluster controller that manages the resources attached to the node.

picture element. An element of a raster pattern about which a toned area on the photoconductor might appear. See also *raster pattern*. Synonym for *pel*.

pipeline. (1) A serial arrangement of processors or a serial arrangement of registers within a processor. Each processor or register performs part of a task and passes results to the next processor; several parts of different tasks can be performed at the same time. (2) The hardware path between the channel station or received-page station and the stacker.

pitch. A unit of measurement for the width of a printed character, reflecting the number of times a graphic character can be set in 1 linear inch. For example, 10-pitch has 10 graphic characters per inch. Uniformly spaced fonts are measured in point. Contrast with *point*.

PLR. Priority level resource.

point. A unit of about 1/72 inch used in measuring type. Contrast with *pitch*.

point size. The height of a font in points.

point-to-point network. An arrangement by which two devices share the same transmission line at the same time.

POR. Power-on reset.

portrait page presentation. The position of a printed sheet that has its short edges as the top and bottom and its long edges as the sides. Contrast with *landscape page presentation*.

power-on reset (POR). See *initial microprogram load*.

PPCC. Page Printer Communication Component.

PPFA/370. Page Printer Formatting Aid/370.

PPQ. Pending page queue.

PPWTR. Page printing writer.

preprinted form. A sheet of paper containing a preprinted design of constant data into which variable data can be printed. See also *electronic overlay* and *forms flash*.

presentation device. A device that produces character shapes, graphics pictures, images, or bar code symbols on a physical medium. Examples of physical media are display screens, paper, foils, microfilm, and labels.

presentation text. Synonym for *MO:DCA data*.

printable area. The area on a sheet of the paper on which print can be placed.

print data set. Synonym for print file.

print data stream. The data stream that is created by PSF and transmitted to the printer.

printer. A presentation device that produces hardcopy output. See *presentation device*.

print file. A file created by an application program that contains the actual information to be printed and some of the data that controls the format of the printing. Print files can contain MO:DCA-P data, line data, or a combination of MO:DCA-P and line data.

print direction. (1) The direction in which characters are added to a line. (2) In PSF, the specification of inline direction for the printing of text.

print job. The data that a user submits to PSF for printing.

print labeling. A controlled method of placing identification labels on each page of PSF printed output.

print position. Any location on a medium on which a character can be printed.

print quality. (1) The measure of printed output against existing standards and in comparison with jobs printed previously. (2) The ability of some page printers to print data at more than one level of print quality, such as "draft" and "near-letter" quality.

Print Services Facility (PSF). An IBM licensed program that produces printer commands from the data sent to it.

priority level resource (PLR). A marked resource known to PSF and deleted according to a modified deletion algorithm. When PSF is deleting resources using reasonable resource loaded value, PSF deletes all non-PLR resources before deleting any PLR resources. A frequently used resource can be marked as PLR with the Resource Exit, thus improving its chances of being retained at the end of the data set.

processor. In a computer, a functional unit that interprets and executes instructions. (I) (A)

programming interface for customers. Any product method that allows a customer-written program to obtain the services of the product, for example, CSECT names, data areas or control blocks, data sets or files, exits, macros, parameter lists, and programming languages. Not all products have programming interfaces for customers. Some products provide their services through end-user interfaces; others provide their services only to other products. Contrast with *end-user interface*.

programming request for price quotation (PRPQ). A customer request for a price quotation on alterations or additions to the functional capabilities of system control programming or licensed programs. The RPQ may be used in conjunction with computing system RPQs to solve unique data processing problems.

program status word (PSW). An area in storage used to indicate the order in which instructions are executed, and to hold and indicate the status of the computer system.

program temporary fix (PTF). A temporary solution or bypass of a problem diagnosed by IBM as resulting from a defect in a current unaltered release of the program.

proportionally spaced font. A typographic font, or in some usages a mixed-pitch font. See *typographic fonts* and *mixed-pitch fonts*.

protocol. The meanings of and the sequencing rules for requests and responses by which network-addressable units (PU, LU, SSCP, and VTAM programs) in a communication network coordinate and control data transfer operations and other operations.

PSF. Print Services Facility.

PSF Direct. A function of PSF/2 or PSF for AIX that enables another PSF program (PSF/VM, PSF for OS/390, PSF/VSE, or PSF/400) to print remotely, using the SNA LU 6.2 protocol, on PSF/2 or PSF for AIX printers. The PSF program sends the print data stream directly to the PSF/2 or PSF for AIX printer, bypassing the OS/2 or AIX spool. The operator of the originating

system controls printing on the PSF/2 or PSF for AIX printers as if the printers were attached to the originating system.

PST. Pattern storage.

PSW. Program status word.

PS/2. Personal System/2.

PTF. Program temporary fix.

PU. Physical unit.

R

RACF. Resource Access Control Facility.

raster font. A font technology in which the graphic characters are defined directly by the raster bit map. Contrast with *outline font*.

raster overlay. See *raster pattern overlay*.

raster pattern. A series of picture elements (pels) in scan lines to form an image. See also *page segment*.

raster pattern overlay. An overlay loaded in the printer as a raster pattern rather than as a sequence of printer commands. Contrast with *coded overlay*.

raster pattern storage (RPS). An area of storage that holds raster patterns for fonts and images.

RCB. Resource control block.

RDW. Record descriptor word.

real storage. The main storage in a virtual storage system. Physically, real storage and main storage are identical. Conceptually, however, real storage represents only part of the range of addresses available to the user of a virtual storage system. Traditionally, the total range of addresses available to the user was provided by the main storage. (I) (A)

reasonable resource loaded value (RRLV). A value used by PSF to keep the number of resources loaded at a manageable level. At data set end, PSF deletes resources for a particular resource type until this value is reached.

received page counter. A counting device in a printer that identifies how many pages have been successfully received and syntax checked. Synonymous with *channel counter*.

record descriptor word (RDW). Data preceding a variable record that specifies the length of the entire record including the RDW.

record interface. Coordinates the transmission of printer resources needed to print a document.

recovery termination manager (RTM). A program that handles all normal and abnormal termination of tasks by passing control to a recovery routine associated with the terminated function.

region size. The amount of main storage available for a program to run.

relative metrics. Measurement information that is defined in relation to some other units. Relative values are expressed as fractional parts of a unit square design space (Em-square), whose sides correspond to the vertical size of the font. This enables you to use the same value for different point sizes and different raster-pattern resolutions. The use of relative metrics requires definition of the units of measure for the Em-square, the point of the font, and perhaps the pel resolution of the raster. Contrast with *fixed metrics*. See also *font metrics* and *bounded-box relative metrics*.

reload function. The Resource Exit can request that a resource be "reloaded." PSF will not use an existing version of the resource, but will load the resource from a host library.

Remote PrintManager Version 2.0. A program that runs on a personal computer and stores OS/390, MVS and VSE printer resources (fonts, overlays, and page segments) in the personal computer's fixed-disk for use by an attached printer. As of September, 1994, RPM 2.0 is no longer sold or serviced, because it has been replaced by the PSF Direct function on OS/2 and AIX/6000. See *PSF Direct*.

Remote PrintManager Version 3.0. A program that runs on a personal computer connected to a Local Area Network (LAN) and that connects printers to the LAN. ASCII files created on the personal computer, and files sent from an OS/390, MVS, VM, VSE, or OS/400 host, are placed on the remote print spool by RPM, which then acts as a print server and schedules the converted ASCII files and host files for printing. RPM 3.0 also stores OS/390, MVS and VSE resource files in its resource library, thus eliminating the need to download the resources each time a file using these stored resources is printed. RPM 3.0 is no longer sold or serviced, because it has been replaced by the Distributed Print Facility (DPF) of PSF/2 1.10.

repositioning. A process in which Print Services Facility, following an indication from the printer or from JES of a potentially recoverable error, locates the correct spool record for recomposing one or more pages for printing.

request for price quote (RPQ). See *computing system RPQ*.

request unit (RU). In SNA, a message unit that contains control information such as a request code, or function management (FM) headers and end-user data, or both. Synonymous with *request*.

resident resource. A resource that resides in a printer (fonts or symbol sets) or in Remote PrintManager (fonts, page segments, and overlays). Resident resources are identified by the APSRMARK utility of PSF or by the resident font resource table, APSRFTBL.

resolution. In computer graphics, a measure of the sharpness of an image, expressed as the number of lines and columns on the display screen or the number of pels per unit of linear measure.

resource. (1) A collection of printing instructions used by Print Services Facility in addition to the print data set, to produce the printed output. PSF resources include coded fonts, font character sets, code pages, page segments, overlays, form definitions, and page definitions. (2) Any source of aid used for performing a task, for example, disk storage space, computer processing time, and communications lines.

Resource Access Control Facility (RACF). An IBM licensed program that provides for access control by identifying and by verifying the users to the system, authorizing access to protected resources, logging the detected unauthorized attempts to enter the system, and logging the detected accesses to protected resources.

resource-constrained condition. Occurs when the printer does not have enough storage for the resources required to print the current page.

resource manager. Any control program function responsible for allocating a resource. In PSF, it maintains the resource control structure used to manage resources, directs the retrieval of resources from libraries, deletes resources from the printer, calls for Resource Exit functions, and includes the APSRMARK utility that allows marking resources as printer-resident.

resource name. The name under which a resource object is stored, the first 2 characters of which indicate the resource type:

X0-XG,XZ	Coded font
T1	Code page
C0-CG,CZ	Font character set
S1	Page segment
F1	form definition
P1	page definition
O1	Overlay
H1*	Microfilm *recommended

resource object. A member in a resource library. Synonym for *library member*.

rotation. Synonym for *character rotation*. See also *orientation*.

routine. A program or sequence of instructions called by a program that may have some general or frequent use. (I) (A)

RPQ. Request for price quotation. See *computing system RPQ*.

RPS. Raster pattern storage.

RRB. Record resource block.

RRLV. Reasonable resource loaded value.

RTM. Recovery termination manager.

RU. Request unit.

rule. A solid or patterned line of any weight, extending horizontally or vertically across a column, row, or page.

S

SDLC. Synchronous Data Link Control.

security definition. In MVS and OS/390, a member containing the definitions for one identification label. These definitions include instructions for the overlay name, and the size and origin of paper to be used.

security definitions library. In MVS and OS/390, a partitioned data set or a series of concatenated partitioned data sets that contain the security definitions for an entire system.

security label. In a trusted computing base, a security label used to maintain multiple levels of security on a system. This label is a combination of a security class and a security level. Contrast with *identification label*.

security overlay. An overlay, such as one created using Overlay Generation Language/370, that resides in a secure library and is used to place security resources on a page.

segment. Synonym for *page segment*.

sense data. (1) Data describing an I/O error. Sense data is presented to a host system in response to a Sense I/O command. (2) In SNA, the data sent with a negative response indicating the reason for the response.

sequence number. A 2-byte field in the structured field introducer that identifies the position of the structured field in the data set.

sequential data set. In MVS and OS/390, a data set whose records are organized on the basis of their

physical positions, such as on magnetic tape. Contrast with *partitioned data set*.

sheet. A division of the physical medium on which data is presented. The IPDS architecture defines four types of sheets: cut-sheet forms, continuous forms, envelopes, and computer output on microfilm. Each sheet has a front side and a back side. Some types of media consist of multiple sheets. For example, a roll of continuous forms can be divided at the perforations into rectangular sheets. Each sheet usually has carrier or tractor-feed strips, also. Microfilm is another example of a medium containing multiple sheets, whereas an envelope contains only one sheet. Synonymous with *form*.

shift-out, shift-in (SOSI). Special EBCDIC control codes that exist in the data stream to indicate the switches between double-byte fonts and single-byte fonts.

simplex printing. Printing on only one side of the paper. Contrast with *duplex printing*.

single-byte coded font. A font in which the characters are defined by a 1-byte code point. A single-byte coded font has only one coded font section. Contrast with *double-byte coded font*.

single-entry font. Fonts with a single entry in the Map Coded Font structured field. This includes all single-byte fonts and any double-byte fonts being defined as coded fonts.

skip. (1) To ignore one or more instructions in a sequence of instructions. (2) A move of the current print position to another location.

SMF. System management facilities.

SMP/E. System Modification Program/Extended.

SNA. Systems Network Architecture.

SNA-attached. In PSF, a device that is linked to the host system through VTAM and uses an SNA protocol to transfer data. It does not need to be physically connected to the host; some printers are attached to a control unit, a communication controller, or both, and they can transfer data over telecommunication lines. For example, a 3820 attached to a communication controller using the LU 6.2 communication protocol to transfer data to a communication controller is considered an SNA-attached printer. Contrast with *channel-attached*.

soft page segment. A resource that is not declared in the Map Page Segment structured field but is sent to the printer inline with data. Contrast with *hard page segment*.

SOSI. Shift-out, shift-in.

spot carbon. Paper from which carbon is omitted in certain areas to suppress the printing of data on specific copies.

SRM. System Resource Manager.

SSCP. System services control point.

SSI. Subsystem Interface.

stacked-page counter. A counting device that identifies how many pages have been successfully stacked.

startup procedure. A procedure used to start PSF and to specify PSF initialization parameters and libraries that contain system resources.

station ID. For the 3800, a 2-byte pipeline counter that is incremented when the last copy of a page reaches the point in the hardware represented by that counter.

storage. (1) A unit into which recorded text can be entered, in which it can be retained and processed, and from which it can be retrieved. (T) (2) The action of placing data into a storage device. (I) (3) A storage device. (A)

structured field. A self-identifying string of bytes and its data or parameters.

structured field introducer. The first 8 bytes of a structured field that indicate its length, type, and number.

subgroup. A set of modifications within a copy group that applies to a certain number of copies of a form. A copy group can contain more than one subgroup.

subpage. A part of a logical page on which line data may be placed. In the page definition, multiple subpages can be placed on the physical page based on changes in the print data.

subsystem interface (SSI). See *functional subsystem interface*.

supervisor call (SVC). An instruction that interrupts a program being run and passes control to the supervisor to perform a specific service indicated by the instruction.

suppression. See *text suppression*.

suppression local ID. A value assigned in the Map Suppression coded field to a suppression named in a Line Descriptor structured field. This value is in the Begin and End Suppression text controls.

suppression number. An identification number from 1 to 127 generated by the Map Suppression structured field and assigned to text designated for suppression in the data map transmission subcase.

swapping. A process that interchanges the contents of an area of real storage with the contents of an area in auxiliary storage.

switched line. A telecommunication line on which communications are established by dialing. Contrast with *nonswitched line*.

switched major node. In VTAM, a major node whose minor nodes are physical and logical units attached by switched SDLC links.

SVC. Supervisor call.

symbol set. A type of font that resides in a printer but has fewer attributes than can be specified for resident coded fonts.

synchronous. (1) Pertaining to two or more processes that depend on the occurrences of a specific event, such as common timing signals. (I) (A) (2) Occurring with a regular or predictable time relationship.

Synchronous Data Link Control (SDLC). A discipline for managing synchronous information transfer over a data link connection.

SYSGEN. System generation. (A)

SYSIN. System input stream.

SYSOUT. System output stream.

system input stream (SYSIN). A data definition (DD) statement used to begin an in-stream data set.

system management facilities (SMF). An optional control program that provides the means for gathering and recording information that can be used to evaluate system use.

System Modification Program (SMP). An IBM licensed program used to install software and software changes.

system output stream (SYSOUT). A data definition (DD) statement used to identify a data set as a system output data set.

Systems Network Architecture (SNA). In IBM networks, the description of the layered logical structure, formats, protocols, and operational sequences that are used for transmitting information units through networks, as well as controlling the configuration and operation of networks.

systems services control point (SSCP). In SNA, a focal point with an SNA network for managing the configuration, coordinating network-operator and problem-determination requests, and providing directory support or other session services for end users of the network.

T

table reference character (TRC). An optional control character in an input record that identifies the font in which the record is to be printed. The table reference character corresponds to a font number defined in a page definition font list or to the order of font names listed in the job control CHARS parameter.

telecommunication line. The portion of a data circuit external to the equipment that connects to a data-switching exchange. Contrast with *data link*.

terminate. (1) In SNA products, a request unit that is sent by a logical unit (LU) to its system services control point (SSCP) to cause the SSCP to start a procedure for ending one or more designated LU-LU sessions. (2) To stop the operation of a system or device. (3) To stop execution of a program.

text. A graphic representation of information on an output medium. Text can consist of alphanumeric characters and symbols arranged in paragraphs, tables, columns, or other shapes.

text control. Structured-field data that controls the format, placement, and appearance of text.

text control sequence. A text control and its associated data.

text orientation. A description of the appearance of text as a combination of inline and baseline directions and character rotation.

text suppression. The intentional omission of portions of text in copy groups specified in a parameter in the form definition.

throughput. (1) A measure of the amount of work performed by a computer system over a period of time, for example, number of jobs per day. (l) (A) (2) In data communication, the total traffic between stations per unit of time.

token name. An 8-byte name that can be given to all internal objects and resources.

token ring. A network configuration in which tokens are passed in a circuit from node to node. A node that is ready to send can capture the token and insert data for transmission.

trace. A record of the execution of a computer program. It exhibits the sequences in which the instructions were executed. (A)

transaction ID. An identifier assigned by Document Processor, associated with an I/O buffer, and representing a form of resource.

transfer counter. A counting device that identifies how many pages have been committed to printing and have been removed from the page buffer. Synonym for *committed page counter*.

transmission. (1) The sending of data from one place for reception elsewhere. (A) (2) The sending of a print data set to a printer.

TRC. Table reference character.

tumble duplex printing. Duplex printing for sheets that are to be bound on the short edge of the paper regardless of whether the orientation is portrait or landscape. Contrast with *normal duplex printing*.

two-channel switch. A hardware feature that enables you to attach an I/O device to two channels. A dynamic switch can be added, which can enable both interfaces at the same time, with channel selection determined by programming.

typeface. A collection of fonts all having the same style, weight, and width. Each font differs from the others by point size and/or type family.

type size. (1) A measurement in pitch or points of the height and width of a graphic character in a font. (2) One of the many attributes of a font; other attributes, for example, are weight and width.

typographic font. A font in which the distance between characters varies. The distance from one character to another is adjusted to improve the visual flow of text by eliminating excess space.

U

UCS. Universal character set.

unbounded-box font. A font designed to use unbounded character boxes. Contrast with *bounded-box font*.

unbounded character box. A character box design that requires the character position information to be included (as untoned pels) within the box. Contrast with *bounded character box*.

unformatted print records. Line data made up of fields of data that have not been formatted into print

lines. PSF uses a page definition to format these records for printing on page printers.

uniformly spaced font. A font in which all the characters have the same character increment. Contrast with *proportionally spaced font*.

units of measure. Counting methods that are either specific or relative. See also *font metrics* and *bounded-box relative metrics*.

universal character set (UCS). A printer feature that permits the use of a variety of character arrays. Synonymous with *font*.

UPA. User printable area.

user library. A private print-resource library owned by an individual user, accessed only when the name is specified by the owner in the JCL USERLIB parameter.

user-printable area (UPA). The area within the valid printable area (VPA) where user-generated data can print without causing an exception condition. See also *valid printable area*.

utility program. (1) A computer program in general support of computer processes; for example, a diagnostic program, a trace program, or a sort program. (T) Synonymous with *service program*. (2) A program designed to perform an everyday task such as copying data from one storage device to another. (A)

V

valid printable area (VPA). The intersection of the partition for basic N_UP with the current logical page or the current overlay. See also *user-printable area*.

value. A quantity assigned to a constant, a variable, a parameter, or a symbol in a command.

virtual storage. (1) The storage space that may be regarded as addressable main storage by the user of a computer system in which virtual addresses are mapped into real addresses. The size of virtual storage is limited by the addressing scheme of the computer system and by the amount of auxiliary storage available, not by the actual number of main storage locations. (I) (A) (2) Addressable space that is apparent to the user as the processor storage space, from which the instructions and the data are mapped into the processor storage locations. Synonymous with *virtual memory*.

Virtual Telecommunications Access Method (VTAM). A set of programs that maintains control of the communication between terminals and application

programs running under DOS/VS, OS/VS1, and OS/VS2 operating systems.

VPA. Valid printable area.

VTAM. Virtual Telecommunications Access Method.

W

WCS. Writable control storage.

writable control storage (WCS). Printer storage into which data can be entered, held, and retrieved. Writable control storage contains licensed internal-code instructions and other control information, such as the print buffer.

write-to-operator (WTO). An optional user-coded service that enables the writing of a message to the system console operator that informs the operator of errors and system conditions that may need correcting.

WTO. Write-to-operator.

X

X-axis. In printing, an axis perpendicular to the direction in which the paper moves through the printer. See also *Y-axis*.

X-extent. A measurement along the X-axis.

Xm, Ym coordinate system. The media coordinate system.

Xp, Yp coordinate system. The logical page coordinate system.

Y

Y-axis. In printing, an axis parallel with the direction in which the paper moves through the printer. See also *X-axis*.

Y-extent. A measurement along the Y-axis.

NUMERICS

4028 Font Metrics. 4028 Font Metrics contain font values that correspond to the 4028 resident fonts and are used to format text on the host and print the text on 4028 or 39xx printers. 4028 Font Metrics contain all information for formatting characters but do not contain the characters themselves, which means that they cannot be downloaded.

Bibliography

This bibliography lists the titles of publications containing additional information about PSF, Advanced Function Presentation, the MVS and OS/390 operating systems, and related products.

The titles and order numbers may change from time to time. To verify the current title or order number, consult your IBM marketing representative.

Print Services Facility (PSF) for OS/390

Publication	Order Number
<i>IBM IP PrintWay Guide</i>	S544-5379
<i>IBM NetSpool Guide</i>	G544-5301
<i>PSF for AIX: Upload Configuration Guide for SNA</i>	S544-5422
<i>PSF for AIX: Upload Configuration Guide for TCP/IP</i>	S544-5423
<i>PSF for OS/390 Collection Kit CD-ROM</i>	SK2T-9267
<i>PSF for OS/390: Customization</i>	S544-5622
<i>PSF for OS/390: Diagnosis</i>	G544-5623
<i>PSF for OS/390: Download for OS/390</i>	G544-5624
<i>PSF for OS/390: Introduction</i>	G544-5625
<i>PSF for OS/390: Licensed Program Specifications</i>	G544-5626
<i>PSF for OS/390: Messages and Codes</i>	G544-5627
<i>PSF for OS/390: Program Directory</i>	None
<i>PSF for OS/390: User's Guide</i>	S544-5630
<i>AFP Conversion and Indexing Facility: User's Guide</i>	S544-5285
<i>PSF: Security Guide</i>	S544-3291
<i>Program Directory for IP PrintWay Feature of PSF for OS/390</i>	None
<i>Program Directory for NetSpool Feature of PSF for OS/390</i>	None

Advanced Function Presentation (AFP)

Publication	Order Number
<i>Advanced Function Presentation: Printer Information</i>	G544-3290
<i>Advanced Function Presentation: Printer Summary</i>	G544-3135
<i>Advanced Function Printing: Host Font Data Stream Reference</i>	S544-3289
<i>AFP Toolbox for Multiple Operating Systems User's Guide</i>	G544-5292
<i>AFP Workbench for Windows and OS/2: Using the Viewer Application</i>	G544-3813
<i>Guide to Advanced Function Presentation</i>	G544-3876
<i>Overlay Generation Language/370 User's Guide and Reference</i>	S544-3700
<i>IBM Page Printer Formatting Aid: User's Guide</i>	S544-5284
<i>Printing and Publishing Cluster Collection CD-ROM</i>	SK2T-2921

Advanced Function Presentation (AFP) Architecture

Publication	Order Number
<i>Advanced Function Presentation: Programming Guide and Line Data Reference</i>	S544-3884
<i>Bar Code Object Content Architecture Reference</i>	S544-3766
<i>Font Object Content Architecture Reference</i>	S544-3285
<i>Graphics Object Content Architecture Reference</i>	SC31-6804
<i>Image Object Content Architecture Reference</i>	SC31-6805
<i>Intelligent Printer Data Stream Reference</i>	S544-3417
<i>Mixed Object Document Content Architecture Reference</i>	SC31-6802
<i>Presentation Text Object Content Architecture Reference</i>	SC31-6803

Advanced Function Presentation for Microfilm

To order any of the following microfilm publications, see your representative for Anacomp, Inc.

Publication	Order Number
<i>DataMASTER II for XFP2000-Linked Systems Operator Guide</i>	DMIIR21
<i>XFP2000 Bit-Mapped Imaging User's Guide</i>	NW-04-9403
<i>XFP2000 COM System Operator Guide</i>	8000R21
<i>XFP2000 Message Guide</i>	8KMSGR11
<i>XFP2000 Reference</i>	XF-07-9201, XF-07-9302
<i>XFP2000 Software Release Notes</i>	XF-14-9301
<i>XFP2000 User's Guide</i>	XF-04-9302
<i>XFP2000 Workstation Executive Installation and Operations Guide</i>	XF-12-9201

Fonts

Publication	Order Number
<i>ABOUT TYPE: IBM's Technical Reference for 240-pel Digitized Type</i>	S544-3516
<i>IBM AFP Fonts: Font Samples</i>	S544-3792
<i>IBM AFP Fonts: Font Summary</i>	G544-3810
<i>IBM AFP Fonts: Font Summary for AFP Font Collection</i>	S544-5633
<i>IBM AFP Fonts: IBM's Typographic Primer for Digitized Type</i>	G544-3183
<i>IBM AFP Fonts: Introduction to Typography</i>	G544-3122
<i>IBM AFP Fonts: Technical Reference for Code Pages</i>	S544-3802
<i>IBM AFP Fonts: Technical Reference for IBM Chinese, Japanese, and Korean Fonts</i>	S544-5330
<i>IBM AFP Fonts: Technical Reference for IBM Expanded Core Fonts</i>	S544-5228
<i>IBM AFP Fonts: Type Transformer User's Guide</i>	G544-3796

Text Processing

Publication	Order number
<i>DCF/DLF General Information</i>	GH20-9158
<i>Document Composition Facility: Bar Code User's Guide</i>	S544-3115
<i>Document Composition Facility: SCRIPT/VS Text Programmer's Guide</i>	SH35-0069
<i>Publishing Systems BookMaster General Information</i>	GC34-5006
<i>Publishing Systems BookMaster User's Guide</i>	SC34-5009
<i>Using DisplayWrite/370</i>	SH12-5172

InfoPrint Manager for AIX

Publication	Order Number
<i>IBM InfoPrint Manager for AIX: Administrator's Guide</i>	S544-5595
<i>IBM InfoPrint Manager for AIX: User's and Operator's Guide</i>	S544-5596

Print Services Facility (PSF) for AIX

Publication	Order Number
<i>AIX and Related Products Documentation</i>	SC23-2456
<i>Facts About PSF for AIX</i>	G544-5305
<i>IBM Page Printer Formatting Aid/6000: User's Guide Version 2.1</i>	S544-3918
<i>IBM Print Services Facility for AIX: AIX for Print Services Facility Users</i>	G544-3766
<i>IBM Print Services Facility for AIX: AFP Conversion and Indexing Facility Version 2.1</i>	G544-3930
<i>IBM Print Services Facility for AIX: Guide for Printer and COM Operators</i>	S544-5286
<i>IBM Print Services Facility for AIX: Licensed Program Specifications</i>	G544-3815
<i>IBM Print Services Facility for AIX: Print Administration</i>	S544-3817
<i>IBM Print Services Facility for AIX: Print Services Facility for AIX Users</i>	G544-3814
<i>IBM Print Services Facility for AIX: Print Submission</i>	S544-3878

Print Services Facility for OS/2 (PSF/2)

Publication	Order Number
<i>IBM Print Services Facility for OS/2: A Guide to Using PSF/2</i>	G544-5225
<i>IBM Print Services Facility for OS/2: An Installation Cookbook for AS/400 and Token Ring Networks</i>	G544-3966
<i>IBM Print Services Facility for OS/2: An Installation Cookbook for System/370 and Token Ring Networks</i>	G544-3965
<i>IBM Print Services Facility for OS/2: Facts about PSF/2</i>	G544-3890
<i>IBM Print Services Facility for OS/2: Network Configuration Guide for System/370 and Communication Manager/2</i>	S544-3911
<i>IBM Print Services Facility for OS/2: Printer Attachments Guide</i>	G544-5215

EDMSuite OnDemand

Publication	Order Number
<i>EDMSuite OnDemand: Administrator's Reference</i>	G544-5293
<i>EDMSuite OnDemand: Installation and Configuration Guide for UNIX Servers</i>	G544-5598
<i>EDMSuite OnDemand: Installation and Configuration Guide for Windows NT Servers</i>	G544-5526
<i>EDMSuite OnDemand: Introduction and Planning Guide</i>	G544-5281

Printers

Publication	Order Number
<i>Reference Manual for the IBM 3800 Printing Subsystem Models 3 and 6</i>	GA32-0050
<i>IBM PagePrinter 3812 Introduction and Planning Guide</i>	G544-3265
<i>IBM 3816 Page Printer Operating Instructions</i>	GA34-2075
<i>IBM 3825 Page Printer Product Description</i>	G544-3482
<i>IBM 3827 Page Printer Product Description</i>	G544-3194
<i>IBM 3828 Advanced Function MICR Printer Product Description</i>	G544-3361
<i>IBM 3900 Advanced Function Printer Product Description</i>	GA32-0135
<i>IBM 3912 and 3916 Page Printer Getting Started</i>	S544-3898
<i>IBM LaserPrinter 4028 Introduction and Planning Guide</i>	S544-4258
<i>User's Guide for the IBM LaserPrinter 4029 Series</i>	ZA40-0542
<i>IBM 4224 Printer Models 1xx and 2xx Product and Programming Description Manual</i>	GC31-2551
<i>IBM 4230 Printer Product and Programming Description Models 102 and 202</i>	GC40-1701
<i>IBM 4234 Printer Models 007, 008, 011, and 012 Product and Programming Description</i>	GC31-3879
<i>Attachment Configuration Handbook for Printers that Use the Advanced Function Common Control Unit</i>	S544-3977
<i>InfoPrint 60 Finisher Application Design Guide</i>	S544-5643
<i>InfoPrint 62 Introduction and Planning Guide</i>	G544-5384
<i>InfoPrint 3000 Introduction and Planning Guide</i>	G544-5563
<i>InfoPrint 4000 and 3900 Advanced Function Printers Introduction and Planning Guide</i>	G544-5427
<i>InfoPrint Color 100 Introduction and Planning Guide</i>	G544-5612
<i>InfoPrint Hi-Lite Color Introduction and Planning Guide</i>	G544-5420
<i>IOCP and ESCON Reference</i>	GC38-0401

i-data

Publication	Order Number
<i>i-data 7913 IPDS Printer LAN Attachment for Ethernet Installation Guide</i>	none
<i>i-data 7913 IPDS Printer LAN Attachment for Token Ring Installation Guide</i>	none

OS/390 Version 2 Release 6

Publication	Order Number
<i>IBM Online Library Omnibus Edition OS/390 Collection</i>	SK2T-6700
<i>OS/390 HCD Planning</i>	GC28-1750
<i>OS/390 HCD User's Guide</i>	SC28-1848
<i>OS/390 JES2 Commands</i>	GC28-1790
<i>OS/390 JES2 Initialization and Tuning Guide</i>	SC28-1791
<i>OS/390 JES2 Initialization and Tuning Reference</i>	SC28-1792
<i>OS/390 JES2 Messages</i>	GC28-1796
<i>OS/390 JES3 Commands</i>	GC28-1798
<i>OS/390 JES3 Initialization and Tuning Guide</i>	SC28-1802
<i>OS/390 JES3 Initialization and Tuning Reference</i>	SC28-1803
<i>OS/390 JES3 Messages</i>	GC28-1804
<i>OS/390 MVS Authorized Assembler Services Guide</i>	GC28-1763
<i>OS/390 MVS Authorized Assembler Services Reference ALE-DYN</i>	GC28-1764
<i>OS/390 MVS Authorized Assembler Services Reference ENF-IXG</i>	GC28-1765
<i>OS/390 MVS Authorized Assembler Services Reference LLA-SDU</i>	GC28-1766
<i>OS/390 MVS Authorized Assembler Services Reference SET-WTO</i>	GC28-1767
<i>OS/390 MVS Diagnosis: Tools and Service Aids</i>	SY28-1085
<i>OS/390 MVS Initialization and Tuning Reference</i>	SC28-1752
<i>OS/390 MVS IPCS User's Guide</i>	GC28-1756
<i>OS/390 MVS IPCS Commands</i>	GC28-1754
<i>OS/390 MVS JCL Reference</i>	GC28-1757
<i>OS/390 MVS JCL User's Guide</i>	GC28-1758
<i>OS/390 MVS Recovery and Reconfiguration Guide</i>	GC28-1777
<i>OS/390 MVS System Codes</i>	GC28-1780
<i>OS/390 MVS System Commands</i>	GC28-1781
<i>OS/390 MVS System Management Facilities (SMF)</i>	GC28-1783
<i>OS/390 MVS System Messages, Vol 1 (ABA-ASA)</i>	GC28-1784
<i>OS/390 MVS System Messages, Vol 2 (ASB-EWX)</i>	GC28-1785
<i>OS/390 MVS System Messages, Vol 3 (GDE-IEB)</i>	GC28-1786
<i>OS/390 MVS System Messages, Vol 4 (IEC-IFD)</i>	GC28-1787
<i>OS/390 MVS System Messages, Vol 5 (IGD-IZP)</i>	GC28-1788
<i>OS/390 MVS Using the Functional Subsystem Interface</i>	SC28-1911
<i>OS/390 Printing Softcopy BOOKs</i>	S544-5354
<i>OS/390 Security Server (RACF) General User's Guide</i>	SC28-1917
<i>OS/390 Security Server (RACF) Security Administrator's Guide</i>	SC28-1915
<i>OS/390 Security Server (RACF) System Programmer's Guide</i>	SC28-1913
<i>OS/390 SDSF Guide and Reference</i>	SC28-1622
<i>OS/390 SMP/E User's Guide</i>	SC28-1740
<i>OS/390 V2R6 PDF Library Collection CD-ROM</i>	SK2T-6718

eNetwork Communications Server

Publication	Order Number
<i>OS/390 eNetwork Communications Server: IP Application Programming Interface Guide</i>	SC31-8516
<i>OS/390 eNetwork Communications Server: IP Configuration Guide</i>	SC31-8513
<i>OS/390 eNetwork Communications Server: IP Network Print Facility</i>	SC31-8522
<i>OS/390 eNetwork Communications Server: IP Programmer's Reference</i>	SC31-8515
<i>OS/390 eNetwork Communications Server: SNA Resource Definition Reference</i>	SC31-8565

MVS/Enterprise Systems Architecture (ESA) Version 5

Publication	Order Number
<i>MVS/ESA SP V5 Authorized Assembler Services Guide</i>	GC28-1467
<i>MVS/ESA SP V5 Diagnosis: Tools and Service Aids</i>	LY28-1845
<i>MVS/ESA SP V5 Hardware Configuration Definition: User's Guide</i>	SC33-6468
<i>MVS/ESA SP V5 Initialization and Tuning Reference</i>	GC28-1452
<i>MVS/ESA SP V5 IPCS Commands</i>	GC28-1491
<i>MVS/ESA SP V5 IPCS User's Guide</i>	GC28-1490
<i>MVS/ESA SP V5 JCL Reference</i>	GC28-1479
<i>MVS/ESA SP V5 JCL User's Guide</i>	GC28-1473
<i>MVS/ESA SP V5 JES2 Commands</i>	GC23-1443
<i>MVS/ESA SP V5 JES2 Initialization and Tuning Guide</i>	SC23-1453
<i>MVS/ESA SP V5 JES2 Initialization and Tuning Reference</i>	SC23-1454
<i>MVS/ESA SP V5 JES2 Messages</i>	GC28-1488
<i>MVS/ESA SP V5 JES3 Commands</i>	GC23-1444
<i>MVS/ESA SP V5 JES3 Initialization and Tuning Guide</i>	SC23-1455
<i>MVS/ESA SP V5 JES3 Initialization and Tuning Reference</i>	SC23-1456
<i>MVS/ESA SP V5 JES3 Messages</i>	GC28-1489
<i>MVS/ESA SP V5 Planning: B1 Security</i>	GC28-1440
<i>MVS/ESA SP V5 Planning: Operations</i>	GC28-1441
<i>MVS/ESA SP V5 Programming: Authorized Assembler Services Reference, Volume 1 (ALESERV-DNALLOC)</i>	GC28-1475
<i>MVS/ESA SP V5 Programming: Authorized Assembler Services Reference, Volume 2 (ENFREQ-ITTFMTB)</i>	GC28-1476
<i>MVS/ESA SP V5 Programming: Authorized Assembler Services Reference, Volume 3 (LLACOPY-SDUMPX)</i>	GC28-1477
<i>MVS/ESA SP V5 Programming: Authorized Assembler Services Reference, Volume 4 (SETFRR-WTOR)</i>	GC28-1478
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<i>MVS/ESA SP V5 System Commands</i>	GC28-1442
<i>MVS/ESA SP V5 System Management Facilities</i>	GC28-1457
<i>MVS/ESA SP V5 System Messages, Volume 1</i>	GC28-1480
<i>MVS/ESA SP V5 System Messages, Volume 2</i>	GC28-1481
<i>MVS/ESA SP V5 System Messages, Volume 3</i>	GC28-1482

Publication	Order Number
<i>MVS/ESA SP V5 System Messages, Volume 4</i>	GC28-1483
<i>MVS/ESA SP V5 System Messages, Volume 5</i>	GC28-1484
<i>MVS/ESA SP V5 Using the Functional Subsystem Interface</i>	SC28-1505
<i>RACF V2 General User's Guide</i>	SC23-3728
<i>RACF V2 Security Administrator's Guide</i>	SC23-3726
<i>RACF V2 System Programmer's Guide</i>	SC23-3725
<i>SMP/E R8 User's Guide</i>	SC28-1302
<i>System Display and Search Facility Guide and Reference</i>	SC23-0408

TCP/IP

Publication	Order Number
<i>Internetworking with TCP/IP, Principles, Protocols, and Architecture</i>	SC31-6144
<i>TCP/IP Tutorial and Technical Reference</i>	GG24-3376

TCP/IP for MVS

Publication	Order Number
<i>TCP/IP for MVS: Customization and Administration Guide</i>	SC31-7134
<i>TCP/IP for MVS: Application Programming Interface Reference</i>	SC31-7187
<i>TCP/IP for MVS: Programmer's Reference</i>	SC31-7135

VTAM and NCP

Publication	Order Number
<i>ACF/INCP/SSP Version 3 Resource Definition Reference</i>	SC30-3254
<i>Advanced Communications Function for VTAM, Version 3, Programming</i>	SC23-0115
<i>Advanced Communications Function for VTAM, Version 2, Programming</i>	SC27-0611
<i>Advanced Communications Function for VTAM, Version 3, Customization</i>	SC23-0112
<i>NCP Resource Definition Guide</i>	SC30-3449
<i>NCP: Resource Definition Reference</i>	SC30-3254
<i>NCP: System Support</i>	SC30-3447
<i>Network Program Products: Bibliography and Master Index</i>	GC30-3353
<i>Network Program Products: General Information</i>	GC23-0108
<i>VTAM Resource Definition Reference</i>	SC31-6552
<i>VTAM Version 3 Diagnosis Reference</i>	LY30-5582
<i>VTAM Version 3 Messages and Codes</i>	SC31-6433
<i>VTAM Version 3 Operation</i>	SC23-0113
<i>VTAM Version 4 Diagnosis Guide</i>	LX75-0204
<i>VTAM Version 4 Diagnosis Quick Reference</i>	LX75-0203
<i>VTAM Version 4 Messages and Codes</i>	SC31-6418

Systems Network Architecture

Publication	Order Number
<i>SNA Customization</i>	LY43-0110
<i>SNA Formats (SNA Reference Summary)</i>	GA27-3136
<i>SNA Resource Definition Reference</i>	SC31-8565
<i>SNA Technical Overview</i>	GC30-3073
<i>SNA Transaction Programmer's Reference Manual for LU Type 6.2</i>	GC30-3084
<i>Systems Network Architecture Formats</i>	GA27-3136

AS/400

Publication	Order Number
<i>AS/400 Data Description Specifications</i>	SC41-962
<i>AS/400 Command Language Reference</i>	SC41-3722
<i>AS/400 Printer Device Programming</i>	SC41-3713

Information/System

Publication	Order Number
<i>Introducing the Information/Family</i>	GC34-4045

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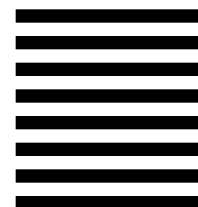
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