

Input List Shutdown Driver

1.0 Introduction

Lodic/Input List Shutdown Driver is intended to be used as a test tool to create background activity in a TPF system. At the same time, the driver will be testing for both Lodic Shutdown Levels, and Input Shutdown Levels. The Levels are:

- Number of ECB's
- Number of FRM's
- Number of SWB's
- Number of CMB's
- Number of XWB's

When QXN5 get invoked, two qxn5s will start simultaneously. One copy will be testing for Lodic Shutdown Level (this copy will get suspended once TPF detects Lodic Level Shutdown limit), the other qxn5 will be testing for input list shutdown level.

2.0 Syntax Information

```
| >> ZTEST...LISH...|..START...|.....>| | | |
|                   |           |..I-..|..CMB...|..|.....|
|                   |           |     |..FRM...| |..T-nnn..|
|                   |           |     |.FRM1MB.| |..S-nnn..|
|                   |           |     |..SWB...| |..D-Y....|
|                   |           |     |..ECB...|
|                   |           |     |..XWB...|
|                   |           |..T-nnn.....|
|                   |           |..D-Y.....|
|                   |...STOP.....|
|
| CRECLASS/MAXSUSP test cases:  (Detail in appendix)
|
|                   |           |           |           |           | | | |
| ZTEST-LISH-| --CREclass-| -----| --MAXSusp-d--CASE-| -----| --| -----| ->|
|                   |           | -LOBATCH-|           | --ALL---| | -NOV-|
|                   |           | --BATCH--|           | --SWB---|
|                   |           | -USRLOD1-|           | --CMB---|
|                   |           | -USRLOD2-|           | --ECB---|
|                   |           | -USRLOD3-|           | -FRM1MB-|
|                   |           | -USRLOD4-|           | --XWB---|
|                   |           |
|                   | -----HELP/?----->|
```

NOTE:

- 1). If you want to run the driver in Delay mode or “SLOW MODE”, you need to issue:
ZTEST LISH START D-Y
- 2). You will get an error msg if you try to invoke multiple copies of LISH.

2.2. Sample Invocations

- **Ztest lish start** - This command will start the input shutdown driver (use default values)
- **Ztest lish stop** - This command will stop the input shutdown driver

The driver accepts few parameters:

- **Ztest lish start I-Resourcename** (CMB, FRM,FRM1MB, SWB,ECB)
- **Ztest lish start T-nnn** -How many seconds to keep the system in the inputshut down
- **Ztest lish start I-Resourcename T-nnn** -which resource and for how long to keep the system in inputlist
- **Ztest lish start I-Resourcename S-nnn** -Which resource and how many blocks to use
- **Ztest lish start I-cmb** -will only use cmb
- **Ztest lish start I-frm** -will only use frm
- **Ztest lish start I-frm1mb** -will only use frm1mb
- **Ztest lish start I-swb** -will only use swb
- **Ztest lish start I-ecb** -will only use ecb
- **Ztest lish start T-100** -The system will stay in inputlist shutdown for 100sec
- **Zest lish start I-swb S-1000** -The system will use 1000 units of swb and keep that resource until the system

goes to inputlist shutdown or until ztest lish stop is issued

3.0 Source Code Information

Header Files:

slecb.h

Source Segments:

- QXN0 - Invokes QXN3.
- QXN1 - Stops the lodic/input list shutdown driver. Sends a signal to QXN5 to stop.
- QXN3 - Allocates/deallocates resources. There will be many copy of QNX3. QXN3 also displays two messages to let the operator know if the system is in/above lodic or input list shutdown.
- QXN5 - Starts lodic/input list shutdown driver. It displays the messages to let the operator knows when the system is in lodic/inputlist shutdown.

3.1 Building the Driver

Segments/Source code

QXN0.CPP
QXN1.CPP
QXN3.CPP
QXN5.CPP

LoadDeck

The following should be loaded:

LOADER CALL PROG QXN0.so
LOADER CALL PROG QXN1.so
LOADER CALL PROG QXN3.so
LOADER CALL PROG QXN5.so

4.0 Driver Messages

Normal Responses:

```
LISH0001I 12.21.42 ATTEMPTING TO PUT INPUT LIST LEVEL BELOW
RESOURCE=(Resource
name)+
LISH0001I 12.21.42 ATTEMPTING TO PUT LODIC LEVEL BELOW RESOURCE=(Resource
name)+
LISH0001I 12.23.45 INPUTLIST SHUTDOWN ABOVE LIMIT+
LISH0001I 12.25.13 ECB WAS HELD, TIME IN=<time>,OUT=<time>,NOT
ENOUGH-(Resource name)+
LISH0001I 12.21.42 LODIC IS ABOVE LIMIT+
LISH0001I 08.11.38 INPUTLIST SHUTDOWN ABOVE LIMIT+
LISH0001I 12.23.05 LODIC SHUTDOWN WAS DETECTED+
LISH0001I 12.21.42 STARTING DRIVER ... +
LISH0001I 12.24.40 INPUT LIST SHUTDOWN WAS DETECTED+
LISH0001I 12.25.13 ISHUT - RELEASING-<resource name> +
LISH0001I 12.27.58 LODIC - RELEASING-<resource name> +
LISH0001I 11.45.49 DONE TESTING SHUTDOWN ...+
```

Error Responses:

```
LISH0001I 12.29.56 ALREADY RUNNING+
```

Explanation: Trying to run `ztest lish start --` more than once.

5.0 Misc. Information

To make sure that the driver is running as it should, tester should monitor the system once in a while using the following commands:

- zsysl** - to display the lodic shutdown levels
- zdclv** - to display the input list shutdown levels
- zstat u** - to display input list, defer list..etc.
- zstat** - to display memory usage

Note: The priority for lodic is batch

Before running the driver, record the numbers displayed by zdsysl and zdclv.

zsysl disp class-batch

```
SYSL0002I 07.51.24
CURRENT SHUTDOWN LEVELS FOR CLASS BATCH
      TOTAL      SHUTDOWN  SHUTDOWN
KEYWORD  ALLOCATED  LEVEL    PCT-AGE
CMB      266        127      48
ECB      500        240      48
FRM      5000       2400     48
IOB      2704       1297     48
SWB      1252       600      48
FRM1MB   40         19       48
END OF DISPLAY+
```

zdclv

```
DCLV0001I 08.00.11 STORAGE CONTROLS
      DESCRIPTION  VALUE  ZACLV PARM
SYST  MAX ECB      375  Mxecbs
INPUT MIN FRAME    1250  MNFRAI
      MIN COMMON   40    MNCMBI
      MIN ECB      125   MNECBI
      MIN SWB     188   MNSWBI
      MIN IOB      270   MNIobi
      MIN FRM1MB   1     MNFR1MBI
.....
END OF DISPLAY+
```

zstat

```
CSMP0097I 08.09.24 CPU-B SS-BSS SSU-HPN IS-01
STAT0012I 08.09.24 SYSTEM STATUS DISPLAY
          IOB  FRAME COMMON      SWB  ECB FRM1MB
ALLOCATED 2704   5000    266   1252   500    40
AVAILABLE 2704   1255    113   758   423    40
```

```
.....
END OF DISPLAY+
```

Remember that you can alter the above values if you think you need to.

Run the driver: [ZTEST LISH START](#)

The messages below should agree with the values returned by zsysl, zdclv, and zstat.

Messages :

LISH0001I 12.27.38 ECB WAS HELD, TIME IN=12:26:47, OUT=12:27:38,NOT ENOUGH-
Resource type

Explanation: Resource type is the name of the resource type that the driver detects input list shutdown for. It does not have to be the same name as the name of the resource that was specified when the driver was invoked.

LISH0001I 12.21.42 LODIC IS ABOVE LIMIT+

Explanation: The values return it by zstat "**AVAILABLE**" storage is greater than the values return by zsysl functional msg. Also verify that the deferred list is less than 1.
Verify by typing:

```
Zstat
Zstat u
zsysl disp class-batch
```

LISH0001I 12.23.05 LODIC SHUTDOWN WAS DETECTED+

Explanation: The values return it by zstat "**AVAILABLE**" storage is less than the values return by zsysl functional msg. Also verify that the deferred list starts to increase.
Verify by typing:

```
Zstat
Zstat u
zsysl disp class-batch
```

LISH0001I 08.11.38 INPUTLIST SHUTDOWN ABOVE LIMIT+

Explanation: The values return it by zstat "**AVAILABLE**" storage is greater than the values return by zdclv functional msg. Also verify that the input list is less than 2
Verify by typing:

```
Zstat
Zstat u
zdclv
```

LISH0001I 12.24.40 INPUTLIST SHUTDOWN WAS DETECTED+

Explanation: The values return it by zstat "AVAILABLE" storage is less than the values return by zdclv functional msg. Also verify that the input list start to increase.

Verify by typing:

Zstat

Zstat u

zdclv

After running the driver for no less than an hour or two

ZTEST LISH STOP - to stop the driver.

Note: This driver will run until ZTEST LISH STOP is issued.

Driver messages:

ZTEST LISH START

TCPP0004I 12.21.42 TEST CASE QXN5 HAS STARTED +

LISH0001I 12.21.42 STARTING DRIVER ... +

LISH0001I 12.21.42 ATTEMPTING TO PUT INPUT LIST LEVEL BELOW RESOURCE=(CMBs)+

LISH0001I 12.21.42 ATTEMPTING TO PUT LODIC LEVEL BELOW RESOURCE=(ECBs)+

LISH0001I 12.21.42 LODIC IS ABOVE LIMIT+

LISH0001I 12.22.43 LODIC IS ABOVE LIMIT+

LISH0001I 12.23.05 LODIC SHUTDOWN WAS DETECTED+

LISH0001I 12.23.45 INPUT LIST SHUTDOWN ABOVE LIMIT+

LISH0001I 12.24.40 INPUT LIST SHUTDOWN WAS DETECTED+

LISH0001I 12.25.13 ISHUT - RELEASING-CMBs +

LLISH30001I 12.25.13 ECB WAS HELD, TIME IN=12:24:27, OUT=12:25:13,NOT ENOUGH-CMB+

LISH0001I 12.25.22 LODIC IS ABOVE LIMIT+

LISH0001I 12.25.25 ATTEMPTING TO PUT LODIC LEVEL BELOW RESOURCE=(ECBs)+

LISH0001I 12.25.25 ATTEMPTING TO PUT INPUT LIST LEVEL BELOW RESOURCE=(CMBs)+

LISH0001I 12.25.26 LODIC SHUTDOWN WAS DETECTED+

LISH0001I 12.25.49 INPUTLIST SHUTDOWN ABOVE LIMIT+

LISH0001I 12.27.34 ISHUT - RELEASING-CMBs +

LISH0001I 12.27.38 ECB WAS HELD, TIME IN=12:26:47, OUT=12:27:38,NOT ENOUGH-CMB+

LISH0001I 12.27.58 LODIC - RELEASING-ECBs +

LISH0001I 12.28.29 ATTEMPTING TO PUT LODIC LEVEL BELOW RESOURCE=(SWBs)+

LISH0001I 12.28.29 ATTEMPTING TO PUT INPUT LIST LEVEL BELOW RESOURCE=(FRMs)+

LISH0001I 12.28.29 LODIC IS ABOVE LIMIT+

LISH0001I 12.28.48 LODIC IS ABOVE LIMIT+

LISH0001I 12.29.31 LODIC IS ABOVE LIMIT+

LISH0001I 12.29.50 LODIC IS ABOVE LIMIT+

ZTEST LISH START

TCP0004I 12.29.56 TEST CASE QXN5 HAS STARTED +
LISH0001I 12.29.56 ALREADY RUNNING+
LISH0001I 12.30.32 LODIC IS ABOVE LIMIT+
LISH0001I 12.30.52 LODIC IS ABOVE LIMIT+
LISH0001I 12.30.56 LODIC SHUTDOWN WAS DETECTED+
LISH0001I 12.31.34 INPUTLIST SHUTDOWN ABOVE LIMIT+
LISH0001I 12.31.53 LODIC IS ABOVE LIMIT+
LISH0001I 12.32.36 INPUTLIST SHUTDOWN ABOVE LIMIT+
LISH0001I 12.33.37 INPUTLIST SHUTDOWN ABOVE LIMIT+
LISH0001I 12.45.16 ECB WAS HELD, TIME IN=12:45:16, OUT=12:45:16,NOT ENOUGH-FRM+
LISH0001I 12.45.26 INPUTLIST SHUTDOWN WAS DETECTED+
LISH0001I 12.45.59 ISHUT - RELEASING-FRMs +
LISH0001I 12.47.11 LODIC - RELEASING-SWBs +
LISH0001I 12.47.11 LODIC - RELEASING-SWBs +
LISH0001I 12.47.17 LODIC IS ABOVE LIMIT+
LILSH0001I 12.47.17 LODIC IS ABOVE LIMIT+
LISH0001I 12.48.16 ATTEMPTING TO PUT LODIC LEVEL BELOW RESOURCE=(SWBs)+
LISH0001I 12.48.16 ATTEMPTING TO PUT INPUTLIST LEVEL BELOW RESOURCE=(FRMs)+
LISH0001I 12.48.38 LODIC SHUTDOWN WAS DETECTED+
LISH0001I 12.49.22 INPUTLIST SHUTDOWN ABOVE LIMIT+
LISH0001I 12.50.24 INPUTLIST SHUTDOWN ABOVE LIMIT+
LIS0001I 12.58.12 ECB WAS HELD, TIME IN=12:58:12, OUT=12:58:12,NOT ENOUGH-FRM+
LISH0001I 12.58.20 INPUTLIST SHUTDOWN WAS DETECTED+
LISH0001I 12.59.33 ISHUT - RELEASING-FRMs +
LISH0001I 13.00.49 LODIC IS ABOVE LIMIT+
LISH0001I 13.01.50 LODIC IS ABOVE LIMIT+
LISH0001I 13.01.50 LODIC IS ABOVE LIMIT+
LISH0001I 13.02.11 LODIC - RELEASING-SWBs +
LISH0001I 13.02.51 ATTEMPTING TO PUT LODIC LEVEL BELOW RESOURCE=(CMBs)+
LISH0001I 13.02.51 ATTEMPTING TO PUT INPUTLIST LEVEL BELOW RESOURCE=(ECBs)+
LISH0001I 13.02.51 LODIC IS ABOVE LIMIT+

ZTEST LISH STOP

LISH0001I 13.04.13 DONE TESTING SHUTDOWN ...+

Appendix: CRECLASS/MAXSUSP test cases

1.0 Introduction

The CRECLASS/MAXSUSP test cases is added to the LISH driver to test the new parameters CRECLASS, MAXSUSP and MAXRTN of LODIC macro.

The parameter CREclass (create priority class) is required to run the test case(s) and is used to assign the priority class to the child ECBs. The following priority classes are supported in this driver: BATCH, LOBATCH, IBMHI, IBMLO, USRLOD1, USRLOD2, USRLOD3 and USRLOD4.

The optional parameter MAXSusp is used to indicate that an ECB will be given control regardless of system resource levels if the ECB has been suspended for a maximum amount of time (MAXSUSP). The driver will consume and hold the blocks (system resource), leaving the system below the LODIC shutdown levels for up to 99 minutes.

To avoid any impacts to the other programs running in the system, it is advised to run the test cases independently, if the CREclass test will use up thousands of the allocated blocks (IBMHI uses up 68%, BATCH uses up 52%) or the MAXSUSP used is too large (99 minutes). If you put in 0 for the MAXSusp, you will see the SNAPC dump of “INVALID CALL TYPE IN LODIC FUNCTION CALL”.

The MAXRTN is tested in the macro call “LODIC SUSPEND,HOLD= YES,MAXSUSP=1, MAXRTN=TIMEOUT” to see if the control goes to the label TIMEOUT when the ECB is given control because the specified MAXSUSP (1 minute) reached.

Another optional parameter CASE is used for selecting the block type that will be consumed and held in the test case(s). The following block types are supported in this driver: SWB, CMB, FRM, ECB, FRM1MB.

The priority class defines a set of unique shutdown values that are used to determine when the ECB will be suspended or unsuspended. The priority class for QXN5 is IBMHI which has the lowest shutdown percentages, 15% for FRM1MB and 32% for the other blocks (ie. If the available 4KB frames remains above 32% of the total allocated blocks, the ECB will not be suspended). This reduces the opportunities of getting suspended during the dispatch of the test case(s), eliminates the possible interferences from other programs.

Each test case tests go thru the following processes:

- 1). Checks the priority class of the child ECB. If it is not the same as CRECLASS, gives error message and exits, otherwise UNMARK the ECB.
- 2). Computes and consumes the block type to bring the system down to the LODIC shutdown.
- 3). Tests ETPFLODIC_LOWRES return code from lodic_ext(LODIC_CHECK).
- 4). Makes the LODIC SUSPEND,MAXSUSP=1,MAXRTN=labelX call to test the macro return control to the labelX label. (For saving the test time, use fixed value 1 for MAXSUSP)
- 5) Makes the LODIC UNMARK call to reset the ECB.
- 6). Computes and displays the time elapsed for the LODIC macro test.
- 7). Makes the lodic_ext(LODIC_SUSPEND+LODIC_MAXSUSP ..) C function call.
- 8). Tests ETPFLODIC_MAXSUSP return code.
- 9). Computes and displays the time elapsed for the lodic_ext() test.
- 10). Notifies QXN5 that this ECB has been unsuspending from MAXSUSP.
- 11). Exits.

P.S.

If the priority class you are using for the test has low percentages, you should raise the percentages of the class to avoid the test drive the system into the Input List Shutdown State by using the following command:

To see the values of the Input List Shutdown: "ZDCLV".

To see the percentages of Lodic Shutdown for the class: "ZSYSL DISP CLASS-className"

To change the percentages for the class: "ZSYSL ALTER CLASS-className FRM-higher %,..".

Use ZSTAT to monitor the number of blocks:

```
AAES0008I 00==> zstat
CSMP0097I 10.13.28 CPU-B SS-BSS SSU-HPN IS-01 _
STAT0014I 10.13.28 SYSTEM STATUS DISPLAY
```

	IOB	FRAME	COMMON	SWB	ECB	FRM1MB
ALLOCATED	4456	6200	400	2272	600	400
AVAILABLE	4456	6168	397	2226	593	296


```
ACTIVE ECBS          7
DLY/DFR ECBS        0
PROCESSED            9
LOW SPEED            0
ROUTED               0
CREATED              2960
SNA                   0
TCP/IP INPUT         0
TCP/IP OUTPUT        0
END OF DISPLAY+
```


CASE-ALL|SWB|CMB|FRM|ECB|FRM1MB

The block type the test case will use to create the LODIC shutdown condition.

ALL

Run all five block types in the following sequence:

SWB (System Working Block)

FRM (4KB Frame)

CMB (Common Block)

FRM1MB (1MEG Frame)

ECB (Entry Control Block)

FRM

The default block type. If you have a typo in specifying the block type, the input will be treated as if you put in "FRM".

Verbose

Specify Verbose to display all the informational messages. NOVerbose is the default

NOVerbose

Specify NOVerbose to display only error messages.

Help

HELP, ?, or entering an incorrect format will cause a display describing the format of the ZTEST LISH command.

3.0 Source Code Information

3.1 Segments of the MAXSUSP test cases:

QXN5 (CSO): Called by CVZZ (the entry point of the driver), composed of qxn5.cpp.

QXN0 (CSO): Called by QXN5, composed of qxn0.cpp and qxn01.asm

3.2 Header Files:

slecb.h: The header file holds the variables, definitions and struct used in qxn5.cpp, and qxn0.cpp.

4.0 Driver Messages

```
AAES0008I 00==>ztest lish cre-lobatch
CSMP0097I 08.53.13 CPU-B SS-BSS SSU-HPN IS-01
LISH: Current available 4KB FRAMES:6162 is ABOVE the LODIC level:5952 (CLASS LOB
ATCH); Will reduce to 5932+
CSMP0097I 08.53.13 CPU-B SS-BSS SSU-HPN IS-01
LISH: Check ETPFLODIC_LOWRES successfully; The system is in LODIC shutdown (Curr
ent available blocks: 5943)+
CSMP0097I 08.53.13 CPU-B SS-BSS SSU-HPN IS-01
LISH: 13:53:13 tests LODIC SUSPEND,MAXSUSP=1,MAXRTN=timeout+
CSMP0097I 08.54.13 CPU-B SS-BSS SSU-HPN IS-01
LISH0001I 08.54.13 timeout: GOT CONTROL AFTER GETTING UNSUSPENDED; UNMARK LODIC+
CSMP0097I 08.54.13 CPU-B SS-BSS SSU-HPN IS-01
LISH: 13:54:13 got unsuspending after 60 seconds+
CSMP0097I 08.54.13 CPU-B SS-BSS SSU-HPN IS-01
```

LISH: 13:54:13 tests lodic_ext(LODIC_MAXSUSP-2..)+
CSMP0097I 08.56.13 CPU-B SS-BSS SSU-HPN IS-01
LISH: Check ETPFLODIC_MAXSUSP successfully; +
CSMP0097I 08.56.13 CPU-B SS-BSS SSU-HPN IS-01
LISH: 13:56:13 got unsususpended after 120 seconds+
CSMP0097I 08.56.13 CPU-B SS-BSS SSU-HPN IS-01
LISH: Complete the 4KB FRAME test case, LISH exits+
CSMP0097I 08.56.13 CPU-B SS-BSS SSU-HPN IS-01
QXN5: Completed the 4KB FRAME test case+

AAES0008I 00==>ztest lish cre-lobatch case-ecb
CSMP0097I 09.03.54 CPU-B SS-BSS SSU-HPN IS-01
LISH: Current available ECBs:592 is ABOVE the LODIC level:576 (CLASS LOBATCH); W
ill reduce to 556+
CSMP0097I 09.03.54 CPU-B SS-BSS SSU-HPN IS-01
LISH: Check ETPFLODIC_LOWRES successfully; The system is in LODIC shutdown (Curr
ent available blocks: 555)+
CSMP0097I 09.03.54 CPU-B SS-BSS SSU-HPN IS-01
LISH: 14:3:54 tests LODIC_SUSPEND,MAXSUSP=1,MAXRTN=timeout+
CSMP0097I 09.04.54 CPU-B SS-BSS SSU-HPN IS-01
LISH0001I 09.04.54 timeout: GOT CONTROL AFTER GETTING UNSUSPENDED; UNMARK LODIC+
CSMP0097I 09.04.54 CPU-B SS-BSS SSU-HPN IS-01
LISH: 14:4:54 got unsususpended after 60 seconds+
CSMP0097I 09.04.54 CPU-B SS-BSS SSU-HPN IS-01
LISH: 14:4:54 tests lodic_ext(LODIC_MAXSUSP-2..)+
CSMP0097I 09.06.54 CPU-B SS-BSS SSU-HPN IS-01
LISH: Check ETPFLODIC_MAXSUSP successfully; +
CSMP0097I 09.06.54 CPU-B SS-BSS SSU-HPN IS-01
LISH: 14:6:54 got unsususpended after 120 seconds+
CSMP0097I 09.06.54 CPU-B SS-BSS SSU-HPN IS-01
LISH: Complete the ECB test case, LISH exits+
CSMP0097I 09.06.54 CPU-B SS-BSS SSU-HPN IS-01
QXN5: Completed the ECB test case+

AAES0008I 00==>ztest lish cre-batch case-swb maxs-3
CSMP0097I 09.59.31 CPU-B SS-BSS SSU-HPN IS-01
LISH: Current available SWBs:2230 is ABOVE the LODIC level:1090 (CLASS BATCH); Will reduce to 1070+
CSMP0097I 09.59.31 CPU-B SS-BSS SSU-HPN IS-01
LISH: Check ETPFLODIC_LOWRES successfully; The system is in LODIC shutdown (Current available blocks: 1070)+
CSMP0097I 09.59.31 CPU-B SS-BSS SSU-HPN IS-01
LISH: 14:59:31 tests LODIC SUSPEND,MAXSUSP=1,MAXRTN=timeout+
CSMP0097I 10.00.31 CPU-B SS-BSS SSU-HPN IS-01
LISH0001I 10.00.31 timeout: GOT CONTROL AFTER GETTING UNSUSPENDED; UNMARK LODIC+
CSMP0097I 10.00.31 CPU-B SS-BSS SSU-HPN IS-01
LISH: 15:0:31 got unsuspending after 60 seconds+
CSMP0097I 10.00.31 CPU-B SS-BSS SSU-HPN IS-01
LISH: 15:0:31 tests lodic_ext(LODIC_MAXSUSP-3..)+
CSMP0097I 10.03.31 CPU-B SS-BSS SSU-HPN IS-01
LISH: Check ETPFLODIC_MAXSUSP successfully; +
CSMP0097I 10.03.31 CPU-B SS-BSS SSU-HPN IS-01
LISH: 15:3:31 got unsuspending after 180 seconds+
CSMP0097I 10.03.31 CPU-B SS-BSS SSU-HPN IS-01
LISH: Complete the SWB test case, LISH exits+
CSMP0097I 10.03.31 CPU-B SS-BSS SSU-HPN IS-01
QXN5: Completed the SWB test case+

AAES0008I 00==>ztest lish cre-lobatch case-swb maxs-1 nov
CSMP0097I 09.36.28 CPU-B SS-BSS SSU-HPN IS-01
LISH: Complete the SWB test case, LISH exits+

AAES0008I 00==>ztest lish cre-lobatch case-all nov
CSMP0097I 09.40.36 CPU-B SS-BSS SSU-HPN IS-01
LISH: Complete the SWB test case, LISH exits+
CSMP0097I 09.43.36 CPU-B SS-BSS SSU-HPN IS-01
LISH: Complete the 4KB FRAME test case, LISH exits+
CSMP0097I 09.46.36 CPU-B SS-BSS SSU-HPN IS-01
LISH: Complete the CMB test case, LISH exits+
CSMP0097I 09.49.39 CPU-B SS-BSS SSU-HPN IS-01
LISH: Complete the 1MB FRAME test case, LISH exits+
CSMP0097I 09.52.39 CPU-B SS-BSS SSU-HPN IS-01
LISH: Complete the ECB test case, LISH exits+

Error messages:

```
AAES0008I 00==>ztest lish cre-typo
CSMP0097I 09.29.46 CPU-B SS-BSS SSU-HPN IS-01
LISH: Invalid Create Priority Class, QXN5 exits ** Case Failed ** +
```

```
AAES0008I 00==>ztest lish cre-lobatch maxs-0
CSMP0097I 09.32.05 CPU-B SS-BSS SSU-HPN IS-01
LISH: Current available 4KB FRAMES:6162 is ABOVE the LODIC level:5952 (CLASS LOB
ATCH); Will reduce to 5932+
CSMP0097I 09.32.05 CPU-B SS-BSS SSU-HPN IS-01
LISH: Check ETPFLODIC_LOWRES successfully; The system is in LODIC shutdown (Cur
ent available blocks: 5943)+
CSMP0097I 09.32.05 CPU-B SS-BSS SSU-HPN IS-01
LISH: 14:32:5 tests LODIC SUSPEND,MAXSUSP=1,MAXRTN=timeout+
CSMP0097I 09.33.05 CPU-B SS-BSS SSU-HPN IS-01
LISH0001I 09.33.05 timeout: GOT CONTROL AFTER GETTING UNSUSPENDED; UNMARK LODIC+
CSMP0097I 09.33.05 CPU-B SS-BSS SSU-HPN IS-01
LISH: 14:33:5 got unsuspending after 60 seconds+
CSMP0097I 09.33.05 CPU-B SS-BSS SSU-HPN IS-01
LISH: 14:33:5 tests lodic_ext(LODIC_MAXSUSP-0..)+
CSMP0097I 09.33.05 CPU-B SS-BSS SSU-HPN IS-01
SNAP0003I 09.33.05 CPU-B SS-BSS SSU-HPN IS-1
PSW-07052001 80000000 00000003 98DED52E
PGM-LISH CODE-I00000074 TERM-0000000B
INVALID CALL TYPE IN LODIC FUNCTION CALL
END OF SNAPC CONSOLE DISPLAY+
CSMP0097I 09.33.12 CPU-B SS-BSS SSU-HPN IS-01
LISH: Didn't receive message from LISH after 65 seconds have elapsed+
```

```
AAES0008I 00==>ztest lish (Missing CRECLASS)
AAES0008I 00==>ztest lish cre-lobatch case-sw b maxs-100 (> 99)
```

```
CSMP0097I 09.25.50 CPU-B SS-BSS SSU-HPN IS-01
PRSE0009E 09.25.50 QXN5 - MANDATORY PARAMETER NOT GIVEN+
CSMP0097I 09.25.50 CPU-B SS-BSS SSU-HPN IS-01
LISH0123I 09.25.50 ZTEST LISH COMMAND FORMAT:
ZTEST LISH -
START
START T-n
D-y
I-cmb|frm|frmlmb|swb|ecb
I-cmb|frm|frmlmb|swb|ecb T-n
D-y
S-n _
CREclass-c MAXSusp-d CASE-b NOV
c: BATCH|LOBATCH|IBMHI|IBMLO|USRL0D1|USRL0D2|USRL0D3|USRL0D4
b: ALL|cmb|frm|frmlmb|swb|ecb
STOP
HELP/?
END OF HELP MESSAGE+
```

```
AAES0008I 00==>ztest lish cre-batch case-frmlmb
ztest lish cre-batch case-frmlmb
CSMP0097I 17.22.41 CPU-B SS-BSS SSU-HPN IS-01
The lodic shutdown level(40 minus 5) of 1MB FRAME is lower than the input
shutdown level(40); The test case will fail, please lower the avail
```

number of 1MB FRAME then try again.+
CSMP0097I 17.22.41 CPU-B SS-BSS SSU-HPN IS-01
QXN5: Completed the 1MB FRAME test case+