



Power Systems
System Reference Codes
Volume 1, 1xxx - Axxx

SA76-0089-04





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Volume 1, 1xxx - Axxx

SA76-0089-04

Note

Before using this information and the product it supports, read the information in “Notices” on page 567 and the *IBM Systems Safety Information* manual, G229-9054.

Fifth Edition (April 2008)

This edition applies to IBM Power™ Systems servers that contain the POWER6™ processor and to all associated models.

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Safety and environmental notices

Safety notices may be printed throughout this guide:

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

World Trade safety information

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

German safety information

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

Laser safety information

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

Laser compliance

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

CAUTION:

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

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

(C026)

CAUTION:

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

CAUTION:

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

CAUTION:

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

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

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

The equipment is suitable for installation in the following:

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

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

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

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

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

Product recycling and disposal

This unit must be recycled or discarded according to applicable local and national regulations. IBM encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. IBM offers a variety of product return programs and services in several countries to assist equipment owners in recycling their IT products. Information on IBM product recycling offerings can be found on IBM's Internet site at <http://www.ibm.com/ibm/environment/products/index.shtml>.

Esta unidad debe reciclarse o desecharse de acuerdo con lo establecido en la normativa nacional o local aplicable. IBM recomienda a los propietarios de equipos de tecnología de la información (TI) que reciclen responsablemente sus equipos cuando éstos ya no les sean útiles. IBM dispone de una serie de programas y servicios de devolución de productos en varios países, a fin de ayudar a los propietarios de equipos a reciclar sus productos de TI. Se puede encontrar información sobre las ofertas de reciclado de productos de IBM en el sitio web de IBM <http://www.ibm.com/ibm/environment/products/index.shtml>.



EU Only

Note: This mark applies only to countries within the European Union (EU) and Norway.

Appliances are labeled in accordance with European Directive 2002/96/EC concerning waste electrical and electronic equipment (WEEE). The Directive determines the framework for the return and recycling

of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.

Remarque : Cette marque s'applique uniquement aux pays de l'Union Européenne et à la Norvège.

L'étiquette du système respecte la Directive européenne 2002/96/EC en matière de Déchets des Equipements Electriques et Electroniques (DEEE), qui détermine les dispositions de retour et de recyclage applicables aux systèmes utilisés à travers l'Union européenne. Conformément à la directive, ladite étiquette précise que le produit sur lequel elle est apposée ne doit pas être jeté mais être récupéré en fin de vie.

注意: このマークは EU 諸国およびノルウェーにおいてのみ適用されます。

この機器には、EU 諸国に対する廃電気電子機器指令 2002/96/EC(WEEE) のラベルが貼られています。この指令は、EU 諸国に適用する使用済み機器の回収とリサイクルの骨子を定めています。このラベルは、使用済みになった時に指令に従って適正な処理をする必要があることを知らせるために種々の製品に貼られています。

In accordance with the European WEEE Directive, electrical and electronic equipment (EEE) is to be collected separately and to be reused, recycled, or recovered at end of life. Users of EEE with the WEEE marking per Annex IV of the WEEE Directive, as shown above, must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to customers for the return, recycling, and recovery of WEEE. Customer participation is important to minimize any potential effects of EEE on the environment and human health due to the potential presence of hazardous substances in EEE. For proper collection and treatment, contact your local IBM representative.

Battery return program

This product may contain sealed lead acid, nickel cadmium, nickel metal hydride, lithium, or lithium ion battery. Consult your user manual or service manual for specific battery information. The battery must be recycled or disposed of properly. Recycling facilities may not be available in your area. For information on disposal of batteries outside the United States, go to <http://www.ibm.com/ibm/environment/products/index.shtml> or contact your local waste disposal facility.

In the United States, IBM has established a return process for reuse, recycling, or proper disposal of used IBM sealed lead acid, nickel cadmium, nickel metal hydride, and other battery packs from IBM Equipment. For information on proper disposal of these batteries, contact IBM at 1-800-426-4333. Please have the IBM part number listed on the battery available prior to your call.

For Taiwan: Please recycle batteries.



For the European Union:



EU Only

Note: This mark applies only to countries within the European Union (EU).

Batteries or packaging for batteries are labeled in accordance with European Directive 2006/66/EC concerning batteries and accumulators and waste batteries and accumulators. The Directive determines the framework for the return and recycling of used batteries and accumulators as applicable throughout the European Union. This label is applied to various batteries to indicate that the battery is not to be thrown away, but rather reclaimed upon end of life per this Directive.

Les batteries ou emballages pour batteries sont étiquetés conformément aux directives européennes 2006/66/EC, norme relative aux batteries et accumulateurs en usage et aux batteries et accumulateurs usés. Les directives déterminent la marche à suivre en vigueur dans l'Union Européenne pour le retour et le recyclage des batteries et accumulateurs usés. Cette étiquette est appliquée sur diverses batteries pour indiquer que la batterie ne doit pas être mise au rebut mais plutôt récupérée en fin de cycle de vie selon cette norme.

バッテリーあるいはバッテリー用のパッケージには、EU 諸国に対する廃電気電子機器指令 2006/66/EC のラベルが貼られています。この指令は、バッテリーと蓄電池、および廃棄バッテリーと蓄電池に関するものです。この指令は、使用済みバッテリーと蓄電池の回収とリサイクルの骨子を定めているもので、EU 諸国にわたって適用されます。このラベルは、使用済みになったときに指令に従って適正な処理をする必要があることを知らせるために種々のバッテリーに貼られています。

In accordance with the European Directive 2006/66/EC, batteries and accumulators are labeled to indicate that they are to be collected separately and recycled at end of life. The label on the battery may also include a chemical symbol for the metal concerned in the battery (Pb for lead, Hg for mercury and Cd for cadmium). Users of batteries and accumulators must not dispose of batteries and accumulators as unsorted municipal waste, but use the collection framework available to customers for the return, recycling, and treatment of batteries and accumulators. Customer participation is important to minimize any potential effects of batteries and accumulators on the environment and human health due to the potential presence of hazardous substances. For proper collection and treatment, contact your local IBM representative.

For California: Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

The foregoing notice is provided in accordance with California Code of Regulations Title 22, Division 4.5 Chapter 33. Best Management Practices for Perchlorate Materials. This product, part, or both may include a lithium manganese dioxide battery which contains a perchlorate substance.

About this publication

This publication lists system reference codes (SRCs) that serve as diagnostic aids to help users determine the source of a hardware problem. A server component generates an error code when it detects a problem. An SRC identifies the component that detected the error code and describes the error condition. Use the SRC information to identify a list of possible failing items and to find information about any additional isolation procedures.

Use this information for reference only. To perform any service action, use the Hardware Management Console (HMC).

For information about the accessibility features of this product, for users who have a physical disability, see "Accessibility features," on page 565.

How to send your comments

Your feedback is important in helping to provide the most accurate and highest quality information. If you have any comments about this publication, use the **Feedback** button at <http://www.ibm.com/systems/infocenter>. Alternatively, you can send your comments to pubsinfo@us.ibm.com. Be sure to include the name of the book, the form number of the book, and the specific location of the text you are commenting on (for example, a page number or table number).

Reference codes that begin with a number sign (#)

When viewed from the Service Focal Point serviceable event list, a reference code that begins with a number sign character (#) represent an AIX operating system diagnostics message. If you do not have a Hardware Management Console (HMC) running the Service Focal Point application you will never see a reference code that begins with a number sign character.

You can show the text associated with the reference code by selecting the **View Details** action and viewing all of the serviceable event data. The message displayed might be informational only or might suggest a corrective action.

To resolve the event, follow the action described in the message. In general, do not suspect a hardware problem unless performing the suggested action is ineffective.

The following example show the message associated with reference code #2533902:

```
No trouble was found with this adapter. However, the ethernet adapter
diagnostics indicate that there may be a problem with the connection to the
network. It is suggested that Advanced Diagnostic Testing with the wrap plug be
performed on this adapter in order to better isolate the cause of this network
interface problem.
```

Chapter 1. Reference codes overview

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

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

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

Block replacement of FRUs

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

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

The priorities of the FRU and procedure callouts are shown in the following ways, depending on how you view the SAL.SRC:

- Advanced System Management Interface (ASMI): The ASMI shows a priority with each callout in the log.
- Control panel: The control panel shows one of the following priorities with each callout:
 - H = High
 - M = Medium
 - MA = Medium group A
 - MB = Medium group B
 - MC = Medium group C
 - L = Low
- Hardware Management Console (HMC): In the Service Focal Point on the HMC, the view of the problem data for a serviceable event displays the FRU replacement priority as High, Medium, and so on.
- Service Action Log: In the SAL, the Part Action for the FRU in the view of the event shows the replacement priority.

Chapter 2. 1xxx Reference Codes

1xxx Reference Codes

(1000) System power control network (SPCN) reference codes

The system power control network (SPCN) detected a failure.

100000A0 SPCN BATs in process**Service Response:**

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

FRU List:

TWRCARD

100000AA Download in process**Service Response:**

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

100000AC Detected AC loss**Service Response:**

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

FRU List:

ACMODUL

100000AD A reset of the service processor caused the system to power off.

10001500 Detected AC loss**Service Response:**

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

FRU List:

PWRSPLY

TWRCARD

10001501 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

10001502 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

CBLALL

10001503 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

10001510 Detected AC loss**Service Response:**

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

FRU List:

PWRSPLY

TWRCARD

10001511 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

10001512 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

CBLALL

10001513 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

10001514 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

10001516 No Power Supplies Present**Service Response:**

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

FRU List:

PWRSPLY

TWRCARD

10001517 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

10001520 Detected AC loss**Service Response:**

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

FRU List:

PWRSPLY

TWRCARD

10001521 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

10001522 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

CBLALL

10001523 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

10001524 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

10001526 No Power Supplies Present**Service Response:**

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

FRU List:
PWRSPPLY

TWRCARD

10001527 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWRSPPLY

TWRCARD

10001530 Detected AC loss**Service Response:**

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

FRU List:
PWRSPPLY

TWRCARD

10001531 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWRSPPLY

TWRCARD

10001532 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWRSPPLY

TWRCARD

CBLALL

10001533 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWRSPPLY

TWRCARD

10001B01 Load fault on the +12V bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1900

TWRCARD

10001B02 Load fault on the +5V bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1900

TWRCARD

10001B03 Load fault on the +3.3V bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1900

TWRCARD

10001B04 Load fault on the -12V bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1900

TWRCARD

10001F02 SPCN trace information saved**Service Response:**

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

10002600 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PGDPART

10002601 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PGDPART

10002603 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PGDPART

10002605 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1900

TWRCARD

10002606 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1900

TWRCARD

10002607 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1900

TWRCARD

10002608 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1900

TWRCARD

10002609 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1900

TWRCARD

10002612 Optical Converter 5V Fault**Service Response:**

The SPCN detected a fault on the SPCN card optical converter 5V. Follow the instructions for the items listed in the FRU List.

FRU List:

CBLALL

TWRCARD

10003100 I2C Bus Controller Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003101 I2C Bus 1 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003102 I2C Bus 2 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003103 I2C Bus 3 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003104 I2C Bus 4 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003105 I2C Bus 5 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003106 I2C Bus 6 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

1000310A I2C Bus SPCN VPD Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

1000310B I2C Bus SPCN VPD Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003110 I2C Bus DASD Backplane 1 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003111 I2C Bus DASD Backplane 2 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003112 I2C Bus DASD Backplane 3 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003113 I2C Bus Adapter Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003114 I2C Bus PCI Backplane Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003115 I2C Bus Panel Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003116 I2C Bus Fan Local Controller Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003118 I2C Bus SPCN VPD Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003121 I2C Bus 2 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003122 I2C Bus SPCN VPD Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003123 I2C Bus SPCN VPD Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003124 I2C Bus SPCN VPD Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10003125 I2C Bus SPCN VPD Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

10004600 UPS Interface Failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

UPSUNIT

TWRCARD

10004601 UPS Interface Failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
UPSUNIT

TWRCARD

10007610 Fan Fault**Service Response:**

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

FRU List:
AIRMOVR

TWRCARD

10007611 Fan missing error**Service Response:**

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

FRU List:
AIRMOVR

TWRCARD

10007620 Fan Fault**Service Response:**

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

FRU List:
AIRMOVR

TWRCARD

10007621 Fan missing error**Service Response:**

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

FRU List:
AIRMOVR

TWRCARD

10007630 Fan Fault**Service Response:**

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

FRU List:
AIRMOVR

TWRCARD

10007631 Fan missing error**Service Response:**

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

FRU List:
AIRMOVR

TWRCARD

10007640 Fan Fault**Service Response:**

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

FRU List:
AIRMOVR

TWRCARD

10007641 Fan missing error**Service Response:**

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

FRU List:
AIRMOVR

TWRCARD

10007650 Fan Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
AIRMOVR

TWRCARD

10007651 Fan missing error**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

AIRMOVR

TWRCARD

10008400 No VPD Found due to Invalid Bypass**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1917

10008402 Unable to Collect VPD**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

VPDPART

TWRCARD

1000840D SPCN Configuration mismatch**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

IDPART

TWRCARD

1000840E SPCN Default Configuration loaded**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

IDPART

TWRCARD

10008910 External Netfinity Server 3.3V fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

ALTMANL

TWRCARD

10008920 External Netfinity Server Power Good fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

ALTMANL

10008930 Integrated Netfinity Adapter fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

10008940 External Netfinity Server R485 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

CBLALL

10008941 External Netfinity Server R485 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

CBLALL

10008942 External Netfinity Server R485 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

CBLALL

10008943 External Netfinity Server R485 Communication fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
TWRCARD

CBLALL

10008A00 IO Power control changed to another system unit

Service Response:

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

10009002 Received a bad return code

Service Response:

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

10009012 Address not valid.

Service Response:

LIC command had a frame address that was not valid. Exchange the SPCN frame-to-frame cables to the failing frame. Follow the instructions for the items listed in the FRU List.

FRU List:
TWRCARD

CBLALL

10009013 Invalid Node Address.

Service Response:

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

FRU List:
TWRCARD

CBLALL

10009014 A command has an invalid address mode.

Service Response:

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

FRU List:
AJDG301

TWRCARD

10009015 An invalid rack command was encountered.

Service Response:

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

10009016 A command to an SPCN node was rejected.

Service Response:

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

10009018 An invalid modifier was found in a command.

Service Response:

Informational message: This status is used by the slave, rack and CEC to identify invalid command modifier values in commands directed to the node. An APX command will be rejected by the CEC without transmission on the network if the modifier field contains an invalid address. The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

10009019 An invalid command was encountered.

Service Response:

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

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

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

1000901B A CEC port addressing problem was found.

Service Response:

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

10009021 A command to an SPCN node was rejected.

Service Response:

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

10009022 Addressed Unit not in frame.

Service Response:

The addressed unit does not exist in the addressed frame. No action required. This reference code is logged for information only.

10009023 Addressed Unit exists, but the frame is powered off.

Service Response:

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

10009024 SPCN Licensed Internal Code not valid.

Service Response:

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

10009025 SPCN Licensed Internal Code is not valid.

Service Response:

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

10009028 SPCN Licensed Internal Code is not valid.

Service Response:

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

10009029 SPCN VPD Damaged

Service Response:

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

FRU List:

TWRCARD

1000902D Addressed frame is not in SPCN configuration table.

Service Response:

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

10009031 Frame-to-Frame Communications Failure

Service Response:

The SPCN detected a BCC error on a transmission from another frame. The transmission is attempted again. No action required. This reference code is logged for error analysis only.

10009032 SPCN Communications Failure, unit to rack.

Service Response:

The frame detected a BCC error on a transmission from a secondary node to the frame. The transmission is attempted again. No action required. This reference code is logged for error analysis only.

10009033 SPCN Communications Failure, rack to unit.

Service Response:

A secondary node detected a BCC error on a transmission from the frame. The transmission is attempted again. No action required. This reference code is logged for error analysis only.

10009034 Unsupported Packet Size

Service Response:

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

10009035 Secondary SPCN node timeout.

Service Response:

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

10009036 Frame Timeout**Service Response:**

One or more frames did not respond to a command. The command is attempted again. No action required. This reference code is logged for error analysis only.

1000903B Invalid Packet Length for data sent.**Service Response:**

The number of bytes sent or received does not match the number of bytes specified in the command. No action required. This reference code is logged for error analysis only.

10009041 Invalid Load Type**Service Response:**

The down load was successful, but the wrong type of Licensed Internal Code was loaded. The operation was attempted again but was not successful. Exchange the failing items for the node reporting the fault. Follow the instructions for the items listed in the FRU List.

FRU List:

AJDG301

TWRCARD

10009042 EEPROM Failure**Service Response:**

The EEPROM in an SPCN node cannot be written successfully. Exchange the SPCN node reported in the failure. Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

10009043 Download Failure**Service Response:**

The Licensed Internal Code download to an SPCN node was completed but was not successful. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

10009046 QDS Packet Sequence Error**Service Response:**

The Packet Sequence number is wrong. The download was stopped. Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

10009047 QDS Block Sequence Error**Service Response:**

The Block Sequence number is wrong. The download was stopped. Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

10009048 The SPCN ROS and EEPROM LIC is not compatible.**Service Response:**

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

FRU List:

TWRCARD

AJDG301

10009080 Undefined Status Code**Service Response:**

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

FRU List:

TWRCARD

SYSBKPL

10009088 A problem was found in the SPCN firmware.**Service Response:**

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

100090F0 A frame was dropped from the SPCN configuration.**Service Response:**

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

FRU List:

PWR1907

TWRCARD

CBLALL

100090F1 A frame was added to the SPCN configuration.

Service Response:

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

100090F2 Slave disappeared

Service Response:

A slave was dropped from the SPCN configuration. This is usually caused by a loss of ac power.

100090F3 Slave reappeared

Service Response:

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

10009101 VLIC-SPCN Timeout

Service Response:

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

FRU List:

TWRCARD

10009102 Assign Permanent Address command failure

Service Response:

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

FRU List:

TWRCARD

10009103 Download Initialize Timeout

Service Response:

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

FRU List:

TWRCARD

10009104 Download Completion Timeout

Service Response:

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

FRU List:

TWRCARD

10009105 Load Damaged Timeout

Service Response:

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

FRU List:

TWRCARD

10009106 An SPCN LID was not found.

Service Response:

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

10009107 An SPCN microcode download is required.

Service Response:

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

10009108 A status change occurred in one of the SPCN nodes.

Service Response:

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

10009109 Licensed Internal Code part number is not correct.

Service Response:

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

FRU List:

TWRCARD

1000910A RIO Download Required

Service Response:

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

1000910B Maximum number of retries exceeded

Service Response:

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

10009111 SPCN is too large for hypervisor.

Service Response:

There are more nodes in the network than the hypervisor can service. Go to System Configuration in ASMI. Under Configure I/O Enclosures select Clear

Inactive Enclosures. If the error persists follow the instructions for the items listed in the FRU List.

FRU List:
AJDG301

10009112 Primary SPCN node is reporting load damaged.

Service Response:

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

FRU List:
TWRCARD

10009113 Secondary SPCN node is reporting load damaged.

Service Response:

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

FRU List:
TWRCARD

10009114 Frame SPCN node is reporting load damaged.

Service Response:

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

FRU List:
TWRCARD

10009115 SPCN Command rejected by the Firmware.

Service Response:

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

10009116 SPCN - Control Panel interface failure.

Service Response:

The SPCN to control panel interface is not working.

10009117 SPCN - Control Panel interface is now working.

Service Response:

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

10009118 Hypervisor out of memory

Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:
AJDG301

10009119 NVRAM Write Failed

Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:
TWRCARD

1000911A Too many racks attached

Service Response:

Reduce the number of racks to maximum configuration on the system.

1000911B SPCN CEC node code failure

Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:
AJDG301

1000911C Two nodes have same VPD

Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:
VPDPART

1000911D RIO Download Failure

Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:
TWRCARD

SI_CARD

1000911E Temporary VPD written

Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:
PWRVPD

1000911F CEC not found
Service Response:

Call your next level of support.

10009120 Duplicate backplane VPD
Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

SYSBKPL

10009131 Invalid XM Return Code
Service Response:

No action required. Logged for error analysis only.

10009132 Node contains temporary VPD
Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRVPD

10009133 Bad PCI Correlation Problem
Service Response:

PCI bus not matched Follow the instructions for the items listed in the FRU List.

FRU List:

CBLALL

10009134 PCI bus VPD error
Service Response:

Check Error Log for B700 xxxx Reference Codes.

10009135 Open SPCN Loop
Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

CBLALL

TWRCARD

10009136 The manually started download was interrupted
Service Response:

Needs to be Manually restarted

10009137 Bad PCI Correlation Problem
Service Response:

SPCN node not matched Follow the instructions for the items listed in the FRU List.

FRU List:

CBLALL

10009138 Bad Location Code
Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

CBLALL

10009139 Open SPCN loop resolved
Service Response:

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

1000913A RIO download sent retry
Service Response:

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

1000913B Go to ASMi to start a download manually
Service Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1907

100091DD All SPCN Downloads Complete
Service Response:

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

100091DE RIO Download Complete
Service Response:

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

100091FB Write VPD on next IPL
Service Response:

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

1000C62E SPCN Network Fault**Service Response:**

An SPCN frame-to-frame communication failure was detected. Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

CBLALL

1000CB15 EEPROM Failure.**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

(1100) System power control network (SPCN) reference codes

The system power control network (SPCN) detected a failure.

110000AC Detected AC loss**Service Response:**

If system powers on normally or stays powered on after AC power failure, no replacement of parts may be needed.

FRU List:

PWR1912

110000AD Service processor reset caused a system power off**Service Response:**

Perform action found in FRU list.

FRU List:

TWRCARD

11001510 Detected AC loss**Service Response:**

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

FRU List:

PWRSPPLY

TWRCARD

11001511 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPPLY

TWRCARD

11001512 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPPLY

TWRCARD

CBLALL

11001513 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPPLY

TWRCARD

11001514 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPPLY

TWRCARD

11001520 Detected AC loss**Service Response:**

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

FRU List:

PWRSPPLY

TWRCARD

11001521 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWRSPPLY

TWRCARD

11001522 Power supply failure

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

FRU List:
PWRSPPLY

TWRCARD

CBLALL

11001523 Power supply failure

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

FRU List:
PWRSPPLY

TWRCARD

11001524 Power supply failure

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

FRU List:
PWRSPPLY

TWRCARD

11001611 Regulator 1 Fault

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

FRU List:
PWR1918

TWRCARD

11001612 Regulator 1 Communication Fault

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

FRU List:
PWR1918

TWRCARD

11001613 Regulator 1 Domain Fault

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

FRU List:
PWR1918

TWRCARD

11001621 Regulator 2 Fault

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

FRU List:
PWR1918

TWRCARD

11001622 Regulator 2 Communication Fault

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

FRU List:
PWR1918

TWRCARD

11001623 Regulator 2 Domain Fault

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

FRU List:
PWR1918

TWRCARD

11001631 Regulator 3 Fault

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

FRU List:
PWR1918

TWRCARD

11001632 Regulator 3 Communication Fault

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

FRU List:
PWR1918

TWRCARD

11001633 Regulator 3 Domain Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1918

TWRCARD

11001B01 Level 1 load fault (+12V)**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1900

11001B02 Load fault on the +5V bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1900

TWRCARD

11001B03 Load fault on the +3.3V bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1900

TWRCARD

11001B05 Load fault on the +1.8V bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1904

TWRCARD

11001B06 Load fault on the +2.5V bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1904

TWRCARD

11001B0A Load Fault on the +12V/-12v bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1904

TWRCARD

11001B0F Load Fault on the +1.2V bus**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1904

TWRCARD

11001C10 Regulator Level 1 Load Fault (1.1A)**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1904

TWRCARD

11001C11 Regulator Level 2 Load Fault (1.1B)**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1904

TWRCARD

11001C12 Regulator Level 2 Load Fault (1.8)**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
PWR1904

TWRCARD

11001C13 Regulator Level 2 Load Fault (1.2A)

Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1904

TWRCARD

11001C14 Regulator Level 2 Load Fault (1.25)

Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1904

TWRCARD

11001C15 Regulator Level 2 Load Fault (1.2B)

Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1904

TWRCARD

11001D00 Primary system controller card fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

CARDFLT

11001D01 Secondary system controller card fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

CARDFLT

11001D02 Clock card fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

CARDFLT

11001D03 Clock card fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

CARDFLT

11001D04 Lightstrip (front) fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

LITSTRP

CABLEH

11001D05 Lightstrip (rear) fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

LITSTRP

CABLEH

11001D10 Node controller card fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

NODECR

11001D11 Node controller card fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

NODECR

11001D12 I/O hub card fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

CARDFLT

11001D13 I/O hub card fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

CARDFLT

11001D14 I/O hub card fault

Servicer Response:

Perform action found in the FRU list.

FRU List:

CARDFLT

11001D15 I/O hub card fault**Service Response:**

Perform action found in the FRU list.

FRU List:

CARDFLT

11001D60 RIO Adapter Card 1 Softswitch fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

SI_CARD

TWRCARD

11001D63 RIO Adapter Card 2 Softswitch fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

SI_CARD

TWRCARD

11001E00 Informational message: open failure - log only**Service Response:**

No action required

11001E01 Informational message: pin failure - log only**Service Response:**

No action required

11001E02 Informational message: close failure - log only**Service Response:**

No action required

11001E03 Informational message: pin failure - log only**Service Response:**

No action required

11001F01 TMS limit reached - log only**Service Response:**

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

11001F02 SPCN trace information saved**Service Response:**

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

11002600 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PGDPART

11002602 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

TWRCARD

11002603 Power Good Fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PGDPART

11002610 A power signal failure has been detected**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

SYSBKPL

11002611 A power signal failure has been detected**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

SYSBKPL

11002613 100V check fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

CBLALL

SYSBKPL

11002620 12V power-good input fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:SYSBKPL

11002622 1.52V power-good input fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:PWR1918

11002623 1.8V power-good input fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:PWR1918

11002624 5.0V power-good input fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:PWR1918

11002625 3.3V power-good input fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:PWR1918

11002626 2.5V power-good input fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:PWR1918

11002630 Processor 1 VRM 1A or 1B power-good fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

ANYPROC

SYSBKPL

11002632 Processor 1 VRM2 array power-good fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

ANYPROC

SYSBKPL

11002633 Processor 1 1.2V VRM power-good fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:PWR1918

SYSBKPL

11002634 Processor 1 1.8V VRM or processor 1 power-good fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

ANYPROC

SYSBKPL

11002640 Processor 2 VRM 1A or 1B power-good fault**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

ANYPROC

SYSBKPL

11002641 Processor 2 VRM 1A or 1B power-good fault
Servicer response:

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

FRU List:

PWR1918

ANYPROC

SYSBKPL

11002642 Processor 2 VRM2 array power-good fault
Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

ANYPROC

SYSBKPL

11002643 Processor 2 1.8V VRM or processor 2 power-good fault
Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

ANYPROC

SYSBKPL

11002644 Distributed converter assembly (DCA) universal asynchronous receive/transmitter (UART) communication fault
Servicer response:

Perform action found in the FRU list.

FRU List:

DCA

ANYPROC

SYSBKPL

11002650 Processor 3 VRM 1A or 1B power-good fault
Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

ANYPROC

SYSBKPL

11002652 Processor 3 VRM2 array power-good fault
Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

ANYPROC

SYSBKPL

11002653 Processor 3 1.2V VRM power-good fault
Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

SYSBKPL

11002654 Processor 3 1.8V VRM or processor 3 power-good fault
Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

ANYPROC

SYSBKPL

11002660 Processor 4 VRM 1A or 1B power-good fault
Servicer Response:

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

ANYPROC

SYSBKPL

11002662 Processor 4 VRM2 array power-good fault**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

ANYPROC

SYSBKPL

11002663 Processor 4 1.2V VRM power-good fault**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

SYSBKPL

11002664 Processor 4 1.8V VRM or processor 4 power-good fault**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

ANYPROC

SYSBKPL

11003100 Service processor I2C failure**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

TWRCARD

11003105 Service processor I2C failure.**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

TWRCARD

11003114 Service processor I2C failure**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

I2CBUS

SYSBKPL

TWRCARD

11003116 I2C: blower control chip**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

SYSBKPL

11003120 VRM failure**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

ANYPROC

SYSBKPL

11004201 UPS Reported, Utility Failure On**Servicer Response:**

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

11004202 Informational message: uninterruptible power supply (UPS) battery low (not EPOW4)**Servicer Response:**

No action required

11004203 UPS Reported, Battery Low On**Servicer Response:**

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

11004600 UPS Interface Failure**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

UPSUNIT

TWRCARD

11004601 UPS Interface Failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

UPSUNIT

TWRCARD

11005000 Primary system controller configuration check failure**Service Response:**

Perform action found in the FRU list.

FRU List:

CARDFLT

11005000 Primary system controller configuration check failure**Service Response:**

Perform action found in the FRU list.

FRU List:

CARDFLT

11005001 Invalid processor vital product data (VPD)**Service Response:**

Perform action found in the FRU list.

FRU List:

CARDFLT CARDFLT

CARDFLT CARDFLT

11005001 Invalid processor vital product data (VPD)**Service Response:**

Perform action found in the FRU list.

FRU List:

CARDFLT CARDFLT

CARDFLT CARDFLT

11007110 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

11007120 Power supply failure**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

11007201 Ambient temperature is out of range**Service Response:**

Follow the procedure for the items listed in the FRU List.

FRU List:

AMBTMP

11007202 Ambient temperature is back in range**Service Response:**

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

11007203 Ambient temperature exceeded limit**Service Response:**

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

FRU List:

AMBTMP

11007204 The ambient temperature is back in range.**Service Response:**

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

11007205 Ambient temperature exceeded limit**Service Response:**

The system will shut down in 20 seconds. Follow the instructions for the items listed in the FRU List.

FRU List:

AMBTMP

11007211 Ambient temperature is out of range**Service Response:**

Ambient Temperature is above nominal for CPU performance. Follow the instructions for the items listed in the FRU List.

FRU List:

AMBTMP1

11007212 Ambient temperature is back in range**Service Response:**

Ambient Temperature has returned to nominal. Follow the instructions for the items listed in the FRU List.

FRU List:

AMBTMP2

11007610 Fan Fault**Service Response:**

The Fan is operating at the wrong speed. Ensure the fans, and fan tray, are fully seated into the fan connectors. Follow the instructions for the items listed in the FRU List.

FRU List:

AIRMOVR
TWRCARD

11007611 Fan missing error**Service Response:**

A problem was detected with a Fan which can be caused by a Fan not being installed. Ensure the fans, and fan tray are fully seated into the fan connectors. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

FRU List:

AIRMOVR
TWRCARD

11007620 Fan Fault**Service Response:**

The Fan is operating at the wrong speed. Ensure the fans, and fan tray are fully seated into the fan connectors. Follow the instructions for the items listed in the FRU List.

FRU List:

AIRMOVR
TWRCARD

11007621 Fan missing error**Service Response:**

A problem was detected with a Fan which can be caused by a Fan not being installed. Ensure the fans, and fan tray are fully seated into the fan connectors. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

FRU List:

AIRMOVR
TWRCARD

11007630 A fan is operating at the wrong speed.**Service Response:**

Ensure the fans, and fan tray are fully seated into the fan connectors. Follow the instructions for the items listed in the FRU List.

FRU List:

AIRMOVR
TWRCARD

11007631 A problem was detected with a fan which can be caused by a fan not being installed.**Service Response:**

Ensure the fans, and fan tray are fully seated into the fan connectors. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU List.

FRU List:

AIRMOVR
TWRCARD

11007640 A fan is operating at the wrong speed.**Service Response:**

Ensure the fans, and fan tray are fully seated into the fan connectors. Follow the instructions for the items listed in the FRU List.

FRU List:

AIRMOVR
TWRCARD

11007641 A problem was detected with a fan which can be caused by a fan not being installed.**Service Response:**

Ensure the fans, and fan tray are fully seated into the fan connectors. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

FRU List:

AIRMOVR
TWRCARD

11008400 No VPD Found due to Invalid Bypass**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

AJDG301

11008402 Unable to Collect VPD**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

VPDPART

TWRCARD

11008404 Processor Unit VPD Mismatch**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

VPDPART

TWRCARD

11008405 Processor Unit VPD Mismatch**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

VPDPART

TWRCARD

11008406 Processor Unit VPD Mismatch**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

VPDPART

TWRCARD

11008409 No Processor Installed**Service Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

VPDPART

TWRCARD

11008410 Invalid processor vital product data (VPD)**Service Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

11008411 Invalid processor vital product data (VPD)**Service Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008412 Invalid processor vital product data (VPD)**Service Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008413 Invalid processor vital product data (VPD)**Service Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008413 Invalid processor vital product data (VPD)**Service Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008414 Invalid processor vital product data (VPD)**Service Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008414 Invalid processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008415 Invalid processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008415 Invalid processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008416 Invalid processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008416 Invalid processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008417 Invalid processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008420 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

11008421 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008422 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008423 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008423 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008424 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008424 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008425 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008426 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008427 No processor vital product data (VPD)**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008450 SPCN Configuration mismatch**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

TWRCARD

11008451 SPCN Configuration mismatch**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWR1918

TWRCARD

11008452 Wrong power supply installed.**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

11008455 Power Supply Missing**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

11008456 Power Supply Missing**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:

PWRSPLY

TWRCARD

11008460 All PWR nodes guarded**Servicer Response:**

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

11008470 Processor vital product data (VPD) mismatch**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

11008471 Processor vital product data (VPD) mismatch**Servicer Response:**

Perform action found in the FRU list.

FRU List:

VPDPART

CARDFLT

11008472 Processor vital product data (VPD) mismatch**Servicer Response:**

Perform action found in the FRU list.

FRU List:
VPDPARTCARDFLT

11008473 Processor vital product data (VPD) mismatch**Servicer Response:**

Perform action found in the FRU list.

FRU List:
VPDPARTCARDFLT

11008474 Processor vital product data (VPD) mismatch**Servicer Response:**

Perform action found in the FRU list.

FRU List:
VPDPARTCARDFLT

11008475 Processor vital product data (VPD) mismatch**Servicer Response:**

Perform action found in the FRU list.

FRU List:
VPDPARTCARDFLT

11008476 Processor vital product data (VPD) mismatch**Servicer Response:**

Perform action found in the FRU list.

FRU List:
VPDPARTCARDFLT

11008477 Processor vital product data (VPD) mismatch**Servicer Response:**

Perform action found in the FRU list.

FRU List:
VPDPARTCARDFLT

110084A1 Invalid Power Distribution Backplane VPD**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
VPDPARTTWRCARD

110084A2 Power Distribution Backplane Mismatch**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
VPDPARTTWRCARD

110084A3 Invalid service processor card VPD**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
VPDPARTTWRCARD

110084A4 Service processor card mismatch.**Servicer Response:**

Follow the instructions for the items listed in the FRU List.

FRU List:
VPDPARTTWRCARD

11008700 Bulk power controller (BPC) A AC loss**Servicer Response:**

Perform action found in the FRU list.

FRU List:
PWR2402

11008701 Bulk power controller (BPC) B AC loss**Servicer Response:**

Perform action found in the FRU list.

FRU List:
PWR2402

11008710 **Distributed converter assembly (DCA) 1
universal asynchronous
receive/transmitter (UART)
communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

DCA

CARDFLT

SYSBP

11008711 **Distributed converter assembly (DCA)
universal asynchronous
receive/transmitter (UART)
communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

DCA

NODECR

CARDFLT

SYSBP

11008712 **Distributed converter assembly (DCA)
universal asynchronous
receive/transmitter (UART)
communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

DCA

NODECR

CARDFLT

SYSBP

11008713 **Distributed converter assembly (DCA)
universal asynchronous
receive/transmitter (UART)
communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

DCA

NODECR

CARDFLT

SYSBP

11008714 **Distributed converter assembly (DCA)
universal asynchronous
receive/transmitter (UART)
communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

DCA

NODECR

CARDFLT

SYSBP

11008715 **Distributed converter assembly (DCA)
universal asynchronous
receive/transmitter (UART)
communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

DCA

NODECR

CARDFLT

SYSBP

11008716 **Distributed converter assembly (DCA)
universal asynchronous
receive/transmitter (UART)
communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

DCA

NODECR

CARDFLT

SYSBP

11008717 **Distributed converter assembly (DCA)
universal asynchronous
receive/transmitter (UART)
communication fault**

Service Response:

11008718 • 1100871E

Perform action found in the FRU list.

FRU List:
DCA

NODECR

CARDFLT

SYSBP

11008718 **Distributed converter assembly (DCA)**
universal asynchronous
receive/transmitter (UART)
communication fault

Servicer Response:
Perform action found in the FRU list.

FRU List:
DCA

NODECR

CARDFLT

SYSBP

11008719 **Distributed converter assembly (DCA)**
universal asynchronous
receive/transmitter (UART)
communication fault

Servicer Response:
Perform action found in the FRU list.

FRU List:
DCA

NODECR

CARDFLT

SYSBP

1100871A **Distributed converter assembly (DCA)**
universal asynchronous
receive/transmitter (UART)
communication fault

Servicer Response:
Perform action found in the FRU list.

FRU List:
DCA

NODECR

CARDFLT

SYSBP

1100871B **Distributed converter assembly (DCA)**
universal asynchronous
receive/transmitter (UART)
communication fault

Servicer Response:
Perform action found in the FRU list.

FRU List:
DCA

NODECR

CARDFLT

SYSBP

1100871C **Distributed converter assembly (DCA)**
universal asynchronous
receive/transmitter (UART)
communication fault

Servicer Response:
Perform action found in the FRU list.

FRU List:

DCA
NODECR
CARDFLT
SYSBP

1100871D **Distributed converter assembly (DCA)**
universal asynchronous
receive/transmitter (UART)
communication fault

Servicer Response:
Perform action found in the FRU list.

FRU List:
DCA

NODECR

CARDFLT

SYSBP

1100871E **Distributed converter assembly (DCA)**
universal asynchronous
receive/transmitter (UART)
communication fault

Servicer Response:
Perform action found in the FRU list.

FRU List:
DCA

NODECR

CARDFLT

SYSBP

1100871F **Distributed converter assembly (DCA) universal asynchronous receive/transmitter (UART) communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

DCA

NODECR

CARDFLT

SYSBP

11008720 **Bulk power controller (BPC) A Ethernet communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

CABLEH

BPC

CARDFLT

11008721 **Bulk power controller (BPC) B Ethernet communication fault**

Service Response:

Perform action found in the FRU list.

FRU List:

CABLEH

BPC

CARDFLT

11008724 **Bulk power controller (BPC) A MTMS (machine type/model, serial number) mismatch**

Service Response:

Perform action found in the FRU list.

FRU List:

CABLEH

BPC

CARDFLT

11008725 **Bulk power controller (BPC) B MTMS (machine type/model, serial number) mismatch**

Service Response:

Perform action found in the FRU list.

FRU List:

CABLEH

BPC

CARDFLT

11008731 **Bulk power controller (BPC) critical fault: none of the processor nodes are powered on.**

Service Response:

Perform action found in the FRU list.

FRU List:

CABLEH

NEXTLVL

11008732 **Bulk power controller (BPC) critical fault: there is a CEC cage ID mismatch due to a cabling error.**

Service Response:

Perform action found in the FRU list.

FRU List:

CABLEH

NEXTLVL

11008733 **Bulk power controller (BPC) critical fault: no node books are present in the system to be powered on.**

Service Response:

Perform action found in the FRU list.

FRU List:

CABLEH

NEXTLVL

11008734 **Bulk power controller (BPC) critical fault: service processor error log collection failed.**

Service Response:

Perform action found in the FRU list.

FRU List:

CABLEH

NEXTLVL

11008735 **Service processor fault; no bulk power controller (BPC) IP addresses**

Service Response:

Perform action found in the FRU list.

FRU List:
CARDFLT

11008740 **Bulk power controller (BPC) A fault; failed to reach standby**

Service Response:

Perform action found in the FRU list.

FRU List:
BPC

11008741 **Bulk power controller (BPC) B fault; failed to reach standby**

Service Response:

Perform action found in the FRU list.

FRU List:
BPC

(1401) Bulk power subsystem reference codes

The bulk power subsystem reference codes are issued from the 24-inch power subsystem and are meant to be serviced through the Service focal point application on the Hardware Management Console (HMC). This list of (1401) bulk power subsystem reference codes is included here for informational use only.

Note: Serviceable actions for the following SRCs require that you use the Service focal point application on the HMC to access more specific information, including isolation procedures, MAPs, and instruction on how to remove and replace parts.

14010058 **Water moving device number 1 is defective.**

FRU List:
MDAW-1

MSAW-1

14010059 **Water moving device number 2 is defective.**

FRU List:
MDAW-2

MSAW-2

14010060 **Air Moving Device number one is defective.**

FRU List:
MDAA-1

MSAA-1

14010061 **Air Moving Device number two is defective.**

FRU List:
MDAA-2

MSAA-2

14010062 **Air Moving Device number three is defective.**

FRU List:
MDAA-3

MSAA-3

14010063 **Air Moving Device number four is defective.**

FRU List:
MDAA-4

MSAA-4

14010072 **The ambient room temperature is out of specification (too hot). The sensors are located in the EPO panel and read/converted by the BPC.**

14010073 **The ambient room temperature is out of specification (too cold). The sensors are located in the EPO panel and read/converted by the BPC.**

14010078 **Logic on a PU book has reached a warning level. Next level of support should be notified of a potential problem.**

14010079 **All DCAs have detected a critical logic over temperature in the called PU enclosure.**

FRU List:
ANY-NODE

MSAA-4

1401007A **A fault has been detected on MCM1 in the processor node indicated in failure information.**

Servicer Response:

See the power fault reason code for additional information and contact your next level of support.

FRU List:
MCM1

1401007B **A fault has been detected on MCM2 in the processor node indicated in failure information.**

Servicer Response:

See the power fault reason code for additional information and contact your next level of support.

FRU List:
MCM2

1401007C **A fault has been detected on MCM3 in the processor node indicated in failure information.**

Servicer Response:

See the power fault reason code for additional information and contact your next level of support.

FRU List:
MCM3

1401007D **LGA shorts test has failed.**

FRU List:
MCM1

MCM2

ANY-NODE

1401007F **The LGA shorts test has failed.**

FRU List:
MCM1

MCM2

ANY-NODE

1401007E **There is a problem with sensed and passed configuration of the MCMs that are installed in the system.**

14010081 **Input power to BPA A has been lost or partially lost.**

FRU List:
BPR-1A

BPR-2A

BPR-3A

CBL-PWRC-BPE-A1-PWR

BPC-A

BPE-BOARD-A

14010082 **The input power to BPA B has been lost or partially lost.**

FRU List:
BPR-1B

BPR-2B

BPR-3B

CBL-PWRC-BPE-B1-PWR

BPC-B

BPE-BOARD-B

14010083 **Input power to BPA A has been lost or partially lost.**

FRU List:
BPR-4A

BPR-5A

BPR-6A

CBL-PWRC-BPE-A2-PWR

BPC-A

BPE-BOARD-A

14010084 **Input power to BPA A has been lost or partially lost.**

FRU List:
BPR-4B

BPR-5B

BPR-6B

CBL-PWRC-BPE-B2-PWR

BPC-B

BPE-BOARD-B

14010085 The thermal sensor(s) on a processor node has indicated a thermal problem, and one or more DCAs has shut down.

FRU List:
NEXTLVL

14010101 The voltage on voltage level 1 has reached the warning undervoltage limit for the specified cage or drawer.

14010102 The voltage on voltage level 2 has reached the warning undervoltage limit for the specified cage or drawer.

14010103 The voltage on voltage level 3 has reached the warning undervoltage limit for the specified cage or drawer.

14010104 The voltage on voltage level 4 has reached the warning undervoltage limit for the specified cage or drawer.

14010105 The voltage on voltage level 5 has reached the warning undervoltage limit for the specified cage or drawer.

14010106 The voltage on voltage level 6 has reached the warning undervoltage limit for the specified cage or drawer.

14010107 The voltage on voltage level 7 has reached the warning undervoltage limit for the specified cage or drawer.

14010108 The voltage on voltage level 8 has reached the warning undervoltage limit for the specified cage or drawer.

14010109 The voltage on voltage level 9 has reached the warning undervoltage limit for the specified cage or drawer.

14010110 The voltage on the voltage level 10 has reached the warning undervoltage limit for the specified cage or drawer.

14010111 The voltage on the voltage level 11 has reached the warning undervoltage limit for the specified cage or drawer.

14010112 The voltage on the voltage level 11 has reached the warning undervoltage limit for the specified cage or drawer.

14010113 The voltage on the voltage level 13 has reached the warning undervoltage limit for the specified cage or drawer.

14010135 There has been an internal bulk power software error.

14010201 The voltage on voltage level 1 has reached the warning over voltage limit for the specified cage or drawer.

14010202 The voltage on voltage level 2 has reached the warning over voltage limit for the specified cage or drawer.

14010203 The voltage on voltage level 3 has reached the warning over voltage limit for the specified cage or drawer.

14010204 The voltage on voltage level 4 has reached the warning over voltage limit for the specified cage or drawer.

14010205 The voltage on voltage level 5 has reached the warning over voltage limit for the specified cage or drawer.

14010206 The voltage on voltage level 6 has reached the warning over voltage limit for the specified cage or drawer.

14010207 The voltage on voltage level 7 has reached the warning over voltage limit for the specified cage or drawer.

14010208 The voltage on voltage level 8 has reached the warning over voltage limit for the specified cage or drawer.

14010209 The voltage on voltage level 9 has reached the warning over voltage limit for the specified cage or drawer.

14010210 The voltage on voltage level 10 has reached the warning over voltage limit for the specified cage or drawer.

14010211 The voltage on voltage level 11 has reached the warning over voltage limit for the specified cage or drawer.

14010212 The voltage on voltage level 12 has reached the warning over voltage limit for the specified cage or drawer.

14010213 The voltage on voltage level 13 has reached the warning over voltage limit for the specified cage or drawer.

14010301 An over current condition has been detected on voltage level 1 for the specified cage or drawer.

FRU List:
FRULEVEL1

14010302 An over current condition has been detected for voltage level 2 for the specified cage or drawer.

FRU List:
FRULEVEL2

14010303 An over current condition has been detected for voltage level 3 for the specified cage or drawer.

FRU List:
FRULEVEL3

14010304 An over current condition has been detected for voltage level 4 for the specified cage or drawer.

FRU List:
FRULEVEL4

14010305 An over current condition has been detected for voltage level 5 for the specified cage or drawer.

FRU List:
FRULEVEL5

14010306 An over current condition has been detected for voltage level 6 for the specified cage or drawer.

FRU List:
FRULEVEL61

14010307 An over current condition has been detected for voltage level 7 for the specified cage or drawer.

FRU List:
FRULEVEL7

14010308 An over current condition has been detected for voltage level 8 for the specified cage or drawer.

FRU List:
FRULEVEL8

14010309 An over current condition has been detected for voltage level 9 for the specified cage or drawer.

FRU List:
FRULEVEL9

14010310 An over current condition has been detected for voltage level 10 for the specified cage or drawer.

FRU List:
FRULEVEL10

14010311 An over current condition has been detected for voltage level 11 for the specified cage or drawer.

FRU List:
FRULEVEL11

14010312 An over current condition has been detected for voltage level 12 for the specified cage or drawer.

FRU List:
FRULEVEL12

14010313 An over current condition has been detected for voltage level 13 for the specified cage or drawer.

FRU List:
FRULEVEL13

14010401 An over voltage condition has been detected for voltage level 1 for the specified cage or drawer.

FRU List:
FRULEVEL1

14010402 An over voltage condition has been detected for voltage level 2 for the specified cage or drawer.

FRU List:
FRULEVEL2

14010403 An over voltage condition has been detected for voltage level 3 for the specified cage or drawer.

FRU List:
FRULEVEL3

14010404 An over voltage condition has been detected for voltage level 4 for the specified cage or drawer.

FRU List:
FRULEVEL4

14010405 An over voltage condition has been detected for voltage level 5 for the specified cage or drawer.

FRU List:
FRULEVEL5

14010406 An over voltage condition has been detected for voltage level 6 for the specified cage or drawer.

FRU List:
FRULEVEL6

14010407 An over voltage condition has been detected for voltage level 7 for the specified cage or drawer.

FRU List:
FRULEVEL7

14010408 An over voltage condition has been detected for voltage level 8 for the specified cage or drawer.

FRU List:
FRULEVEL8

14010409 An over voltage condition has been detected for voltage level 9 for the specified cage or drawer.

FRU List:
FRULEVEL9

14010410 An over voltage condition has been detected for voltage level 10 for the specified cage or drawer.

FRU List:
FRULEVEL10

14010411 An over voltage condition has been detected for voltage level 11 for the specified cage or drawer.

FRU List:
FRULEVEL12

14010412 An over voltage condition has been detected for voltage level 12 for the specified cage or drawer.

14010413 An over voltage condition has been detected for voltage level 13 for the specified cage or drawer.

FRU List:
FRULEVEL13

14011081 The VPD in CEC main storage can not be accessed or has a problem that is preventing the CEC from powering on.

FRU List:
FRUVPDMEMORY

14011082 VPD resolution failure in the cage or drawer.

FRU List:
FRUVPDBUS

14011301 The DASD backplane is defective.

14011302 The IO planar is defective.

14011304 This is a defective DASD on Backplane one.

14011305 This is a defective DASD on Backplane two.

14011306 This is a defective DASD on Backplane three.

14011307 This is a defective DASD on Backplane four.

14011308 This is a switch riser card.

14011309 This is a switch PLANAR card.

14012051 DCA number one is defective.

FRU List:
IO_DCA-01

14012052 DCA #2 is defective.

Servicer Response:
Informational only; no action is required.

FRU list:
IO_DCA-02

14012054 The bulk power fan is defective in BPA-A.

FRU List:
BPF-A

BPC-A

14012055 The bulk power fan is defective in BPA-B.

FRU List:
BPF-B

BPC-B

14012069 All DCAs reported 'No airflow in cage'. Make sure that there are no blocked or dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that all 'circulation flaps' inside affected Air Moving Enclosure are not blocked.

140120B9 The EPO panel or the cable between both BPCs and EPO panel is defective.

FRU List:
EPO-SWITCH

CBL-BPCA-EPO

CBL-BPCB-EPO

BPC-A

BPC-B

140120C1 The UEPO switch on the BPC A-side is defective or in the BYPASS position. Switch to the NORMAL position.

FRU List:
BPC-A

140120C2 The BPC on the A-side has detected an open UEPO loop.

FRU List:
EPO-SWITCH

BPC-A

BPR-1A

BPR-2A

BPR-3A

CBL-BPCA-EPO

BPE-BOARD-A

14012152 DCA number two is defective.

FRU List:
IO_DCA-02

1401218A A communication fault between BPC A and the load on port J08 (A) has been detected.

FRU List:
BPCA-PORT-08-A

1401219A A communication fault between BPC A and the load on port J09 (A) has been detected.

FRU List:
BPCA-PORT-09-A

140121AB A communication fault between BPC A and the load on port J10 (B) has been detected.

FRU List:
BPCA-PORT-10-B

140121AC A communication fault between BPC A and the load on port J10 (C) has been detected.

FRU List:
BPCA-PORT-10-C

140121BB A communication fault between BPC A and the load on port J11 (B) has been detected.

FRU List:
BPCA-PORT-11-B

140121BC A communication fault between BPC A and the load on port J11 (C) has been detected.

FRU List:
BPCA-PORT-11-C

140121C1 The UEPO switch on the BPC B-side is defective or in the BYPASS position. Switch to the NORMAL position.

FRU List:
BPC-B

140121C2 The BPC on the B-side has detected an open UEPO loop.

FRU List:
EPO-SWITCH

BPC-B

BPR-1B

BPR-2B

BPR-3B

CBL-BPCB-EPO

BPE-BOARD-B

1401221A A communication fault between the BPD 1A and the load on port J01 (A) has been detected.

FRU List:
BPD1A-PORT-01-A

1401222A A communication fault between the BPD 1A and the load on port J02 (A) has been detected.

FRU List:
BPD1A-PORT-02-A

1401223A A communication fault between the BPD 1A and the load on port J03 (A) has been detected.

FRU List:
BPD1A-PORT-03-A

1401224A A communication fault between the BPD 1A and the load on port J04 (A) has been detected.

FRU List:
BPD1A-PORT-04-A

14012251 DCA number one is defective.

FRU List:
P2_CEC_DCA-01

14012252 DCA number two is defective.

FRU List:
P2_CEC_DCA-02

1401225A A communication fault between the BPD 1A and the load on port J05 (A) has been detected.

FRU List:
BPD1A-PORT-05-A

1401226A A communication fault between the BPD 1A and the load on port J06 (A) has been detected.

FRU List:
BPD1A-PORT-06-A

1401227A A communication fault between the BPD 1A and the load on port J07 (A) has been detected.

FRU List:
BPD1A-PORT-07-A

1401227B A communication fault between the BPD 1A and the load on port J07 (B) has been detected.

FRU List:
BPD1A-PORT-07-B

1401227C A communication fault between the BPD 1A and the load on port J07 (C) has been detected.

FRU List:
BPD1A-PORT-07-C

1401228A A communication fault between the BPD 1A and the load on port J08 (A) has been detected.

FRU List:
BPD1A-PORT-08-A

1401228B A communication fault between the BPD 1A and the load on port J08 (B) has been detected.

FRU List:
BPD1A-PORT-08-B

1401228C A communication fault between the BPD 1A and the load on port J08 (C) has been detected.

FRU List:
BPD1A-PORT-08-C

1401229A A communication fault between the BPD 1A and the load on port J09 (A) has been detected.

FRU List:
BPD1A-PORT-09-A

1401229B A communication fault between the BPD 1A and the load on port J09 (B) has been detected.

FRU List:
BPD1A-PORT-09-B

1401229C A communication fault between the BPD 1A and the load on port J09 (C) has been detected.

FRU List:
BPD1A-PORT-09-C

140122AA A communication fault between the BPD 1A and the load on port J10 (A) has been detected.

FRU List:
BPD1A-PORT-10-A

140122AB A communication fault between the BPD 1A and the load on port J10 (B) has been detected.

FRU List:
BPD1A-PORT-10-B

140122AC A communication fault between the BPD 1A and the load on port J10 (C) has been detected.

FRU List:
BPD1A-PORT-10-C

14012301 Water cooling system number 1 has failed to cool adequately.

Servicer Response:
Informational only; no action is required.

14012302 Water cooling system number 2 has failed to cool adequately.

Servicer Response:
Informational only; no action is required.

14012303 A problem with the water supply has been detected on water cooling system number 1.

Servicer Response:
Informational only; no action is required.

14012304 A problem with the water supply has been detected on water cooling system number 1.

Servicer Response:
Informational only; no action is required.

14012305 A leak has been detected on water cooling system number 1.

Servicer Response:
Informational only; no action is required.

14012306 A leak has been detected on water cooling system number 2.

Servicer Response:
Informational only; no action is required.

14012307 A valve problem has been detected on water cooling system number 1.

Servicer Response:
Informational only; no action is required.

14012308 A valve problem has been detected on water cooling system number 2.

Servicer Response:
Informational only; no action is required.

1401231A A communication fault between the BPD 2A and the load on port J01 (A) has been detected.

FRU List:
BPD2A-PORT-01-A

1401232A • 140123AA

1401232A A communication fault between the BPD 2A and the load on port J02 (A) has been detected.

FRU List:
BPD2A-PORT-02-A

1401233A A communication fault between the BPD 2A and the load on port J03 (A) has been detected.

FRU List:
BPD2A-PORT-03-A

1401234A A communication fault between the BPD 2A and the load on port J04 (A) has been detected.

FRU List:
BPD2A-PORT-04-A

14012351 DCA number one is defective.

FRU List:
P3_CEC_DCA-01

14012352 DCA number two is defective.

FRU List:
P3_CEC_DCA-02

1401235A A communication fault between the BPD 2A and the load on port J05 (A) has been detected.

FRU List:
BPD2A-PORT-05-A

1401236A A communication fault between the BPD 2A and the load on port J06 (A) has been detected.

FRU List:
BPD2A-PORT-06-A

1401237A A communication fault between the BPD 2A and the load on port J07 (A) has been detected.

FRU List:
BPD2A-PORT-07-A

1401237B A communication fault between the BPD 2A and the load on port J07 (B) has been detected.

FRU List:
BPD2A-PORT-07-B

1401237C A communication fault between the BPD 2A and the load on port J07 (C) has been detected.

FRU List:
BPD2A-PORT-07-C

1401238A A communication fault between the BPD 2A and the load on port J08 (A) has been detected.

FRU List:
BPD2A-PORT-08-A

1401238B A communication fault between the BPD 2A and the load on port J08 (B) has been detected.

FRU List:
BPD2A-PORT-08-B

1401238C A communication fault between the BPD 2A and the load on port J08 (C) has been detected.

FRU List:
BPD2A-PORT-08-C

1401239A A communication fault between the BPD 2A and the load on port J09 (A) has been detected.

FRU List:
BPD2A-PORT-09-A

1401239B A communication fault between the BPD 2A and the load on port J09 (B) has been detected.

FRU List:
BPD2A-PORT-09-B

1401239C A communication fault between the BPD 2A and the load on port J09 (C) has been detected.

FRU List:
BPD2A-PORT-09-C

140123AA A communication fault between the BPD 2A and the load on port J10 (A) has been detected.

FRU List:
BPD2A-PORT-10-A

140123AB A communication fault between the BPD 2A and the load on port J10 (B) has been detected.

FRU List:
BPD2A-PORT-10-B

140123AC A communication fault between the BPD 2A and the load on port J10 (C) has been detected.

FRU List:
BPD2A-PORT-10-C

1401241A A communication fault between the BPD 3A and the load on port J01 (A) has been detected.

FRU List:
BPD3A-PORT-01-A

1401242A A communication fault between the BPD 3A and the load on port J02 (A) has been detected.

FRU List:
BPD3A-PORT-02-A

1401243A A communication fault between the BPD 3A and the load on port J03 (A) has been detected.

FRU List:
BPD3A-PORT-03-A

1401244A A communication fault between the BPD 3A and the load on port J04 (A) has been detected.

FRU List:
BPD3A-PORT-04-A

14012451 DCA number one is defective.

FRU List:
P4_CEC_DCA-01

14012452 DCA number two is defective.

FRU List:
P4_CEC_DCA-02

14012551 DCA number one is defective.

FRU List:
P5_CEC_DCA-01

14012552 DCA number two is defective.

FRU List:
P5_CEC_DCA-02

14012651 DCA number one is defective.

FRU List:
P6_CEC_DCA-01

14012652 DCA number two is defective.

FRU List:
P6_CEC_DCA-02

14012751 DCA number one is defective.

FRU List:
P7_CEC_DCA-01

14012752 DCA number two is defective.

FRU List:
P7_CEC_DCA-02

14012851 DCA number one is defective.

FRU List:
P8_CEC_DCA-01

14012852 DCA number two is defective.

FRU List:
P8_CEC_DCA-02

14012951 DCA number one is defective.

FRU List:
P9_CEC_DCA-01

14012952 DCA number two is defective.

FRU List:
P9_CEC_DCA-02

14012A01 A communication fault between (BPA-A) BPC and (BPA-B) BPC.

FRU List:
BPC-B

CBL-NET-BPCA-BPCB

BPC-A

14012A02 • 14012A10

14012A02 A communication fault between the BPC (BPA-A) and BPD 1A has been detected.

FRU List:
BPD-1A

BPC-A

BPE-BOARD-A

14012A03 A communication fault between the BPC (BPA-A) and BPD 2A has been detected.

FRU List:
BPD-2A

BPC-A

BPE-BOARD-A

14012A04 A communication fault between the BPC (BPA-A) and BPD 3A has been detected.

FRU List:
BPD-3A

BPC-A

BPE-BOARD-A

14012A05 Communication error between BPC A and BPR 1A.

FRU List:
BPR-1A

BPC-A

BPE-BOARD-A

14012A06 Communication error between BPC A and BPR 2A.

FRU List:
BPR-2A

BPC-A

BPE-BOARD-A

14012A07 Communication error between BPC A and BPR 3A.

FRU List:
BPR-3A

BPC-A

BPE-BOARD-A

14012A08 Communication error between BPC A and BPR 4A.

FRU List:
BPR-4A

BPC-A

BPE-BOARD-A

14012A09 Communication error between BPC A and BPR 5A.

FRU List:
BPR-5A

BPC-A

BPE-BOARD-A

14012A0A Communication error between BPC A and BPR 6A.

FRU List:
BPR-6A

BPC-A

BPE-BOARD-A

14012A0B Communication error between BPC A and BPH A.

FRU List:
BPH-A

BPC-A

BPE-BOARD-A

14012A10 BPA-A has reported an over-current on the 350VDC bulk.

FRU List:
BPR-1A

BPD-1A

BPC-A

BPD-2A

BPR-2A

BPR-3A

BPE-BOARD-A

14012A11 **BPR-1A has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-1A

BPD-1A

BPC-A

BPD-2A

BPR-2A

BPR-3A

BPE-BOARD-A

14012A12 **BPR-2A has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-2A

BPD-1A

BPC-A

BPD-2A

BPR-1A

BPR-3A

BPE-BOARD-A

14012A13 **BPR-3A has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-3A

BPD-1A

BPC-A

BPD-2A

BPR-1A

BPR-2A

BPE-BOARD-A

14012A14 **BPR-4A has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-4A

BPD-1A

BPC-A

BPD-2A

BPR-5A

BPR-6A

BPE-BOARD-A

14012A15 **BPR-5A has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-5A

BPD-1A

BPC-A

BPD-2A

BPR-4A

BPR-6A

BPE-BOARD-A

14012A16 **BPR-6A has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-6A

BPD-1A

BPC-A

BPD-2A

BPR-4A

BPR-5A

BPE-BOARD-A

14012A20 • 14012A33

14012A20 A BPA has reported 'No airflow in cage'. Make sure that there are no blocked or dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

14012A21 BPR-1A located in BPA-A has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

FRU List:
BPR-1A

14012A22 BPR-2A located in BPA-A has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

FRU List:
BPR-2A

14012A23 BPR-3A located in BPA-A has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

FRU List:
BPR-3A

14012A24 BPR-4A located in BPA-A has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

FRU List:
BPR-4A

14012A25 BPR-5A located in BPA-A has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

FRU List:
BPR-5A

14012A26 BPR-6A located in BPA-A has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

FRU List:
BPR-6A

14012A31 BPA-A side detects that IBF-1A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-1A)

FRU List:
IBF-1A

BPR-1A

BPC-A

BPE-BOARD-A

14012A32 BPA-A side detects that IBF-2A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-2A)

FRU List:
IBF-2A

BPR-2A

BPC-A

BPE-BOARD-A

14012A33 BPA-A side detects that IBF-3A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-3A)

FRU List:
IBF-3A

BPR-3A

BPC-A

BPE-BOARD-A

14012A34 BPA-A side detects that IBF-4A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-4A)a

FRU List:
IBF-4A

BPR-4A

BPC-A

BPE-BOARD-A

14012A35 BPA-A side detects that IBF-5A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-5A)

FRU List:
IBF-5A

BPR-5A

BPC-A

BPE-BOARD-A

14012A36 BPA-A side detects that IBF-6A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-6A)

FRU List:
IBF-6A

BPR-6A

BPC-A

BPE-BOARD-A

14012A41 BPA-A side detects that IBF-1A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-1A)

FRU List:
IBF-1A

14012A42 BPA-A side detects that IBF-2A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-2A)

FRU List:
IBF-2A

14012A43 BPA-A side detects that IBF-3A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-3A)

FRU List:
IBF-3A

14012A44 BPA-A side detects that IBF-4A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-4A)

FRU List:
IBF-4A

14012A45 BPA-A side detects that IBF-5A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-5A)

FRU List:
IBF-5A

14012A46 BPA-A side detects that IBF-6A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-6A)

FRU List:
IBF-6A

14012A51 BPC-A side detects that IBF-1A is disconnected. (IBF is connected to BPA-A BPR-1A)

FRU List:
BPR-1A

IBF-1A

CBL-IBF1A

BPC-A

BPE-BOARD-A

14012A52 BPC-A side detects that IBF-2A is disconnected. (IBF is connected to BPA-A BPR-2A)

FRU List:
BPR-2A

IBF-2A

CBL-IBF2A

BPC-A

14012A53 • 14012B04

BPE-BOARD-A

14012A53 **BPC-A side detects that IBF-2A is disconnected. (IBF is connected to BPA-A BPR-2A)**

FRU List:
BPR-3A

IBF-3A

CBL-IBF3A

BPC-A

BPE-BOARD-A

14012A54 **BPC-A side detects that IBF-4A is disconnected. (IBF is connected to BPA-A BPR-4A)**

FRU List:
BPR-4A

IBF-4A

CBL-IBF4A

BPC-A

BPE-BOARD-A

14012A55 **BPC-A side detects that IBF-5A is disconnected. (IBF is connected to BPA-A BPR-5A)**

FRU List:
BPR-5A

IBF-5A

CBL-IBF5A

BPC-A

BPE-BOARD-A

14012A56 **BPC-A side detects that IBF-6A is disconnected. (IBF is connected to BPA-A BPR-6A)**

FRU List:
BPR-6A

IBF-6A

CBL-IBF6A

BPC-A

BPE-BOARD-A

14012A85 **The B-side BPC has detected that the cross feed from the A-side has failed.**

FRU List:
BPCA-PORT-07-A

BPD-1A

BPC-A

BPD-2A

BPR-1A

BPR-2A

BPE-BOARD-A

14012B01 **A communication fault between (BPA-B) BPC and (BPA-A) BPC.**

FRU List:
BPC-A

CBL-NET-BPCA-BPCB

BPC-B

14012B02 **A communication fault between the BPC (BPA-B) and BPD 1B has been detected.**

FRU List:
BPD-1B

BPC-B

BPE-BOARD-B

14012B03 **A communication fault between the BPC (BPA-B) and BPD 2B has been detected.**

FRU List:
BPD-2B

BPC-B

BPE-BOARD-B

14012B04 **A communication fault between the BPC (BPA-B) and BPD 3B has been detected.**

FRU List:
BPD-3B

BPC-B

BPE-BOARD-B

14012B05 **Communication error between BPC B and BPR 1B.**
FRU List:
 BPR-1B

BPC-B

BPE-BOARD-B

14012B06 **Communication error between BPC B and BPR 2B.**
FRU List:
 BPR-2B

BPC-B

BPE-BOARD-B

14012B07 **Communication error between BPC B and BPR 3B.**
FRU List:
 BPR-3B

BPC-B

BPE-BOARD-B

14012B08 **Communication error between BPC B and BPR 4B.**
FRU List:
 BPR-4B

BPC-B

BPE-BOARD-B

14012B09 **Communication error between BPC B and BPR 5B.**
FRU List:
 BPR-5B

BPC-B

BPE-BOARD-B

14012B0A **Communication error between BPC B and BPR 6B.**
FRU List:
 BPR-6B

BPC-B

BPE-BOARD-B

14012B0B **Communication error between BPC B and BPH B.**
FRU List:
 BPH-B

BPC-B

BPE-BOARD-B

14012B10 **BPA-A has reported an over-current on the 350VDC bulk.**
FRU List:
 BPR-1A

BPD-1A

BPC-A

BPD-2A

BPR-2A

BPR-3A

BPE-BOARD-A

14012B11 **BPR-1B has reported an over-current on the 350VDC bulk.**
FRU List:
 BPR-1B

BPD-1B

BPC-B

BPD-2B

BPR-2B

BPR-3B

BPE-BOARD-B

14012B12 **BPR-2B has reported an over-current on the 350VDC bulk.**
FRU List:
 BPR-2B

BPD-1B

BPC-B

14012B13 • 14012B23

BPD-2B

BPR-1B

BPR-3B

BPE-BOARD-B

14012B13 **BPR-3B has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-3B

BPD-1B

BPC-B

BPD-2B

BPR-1B

BPR-2B

BPE-BOARD-B

14012B14 **BPR-4A has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-4B

BPD-1B

BPC-B

BPD-2B

BPR-5B

BPR-6B

BPE-BOARD-B

14012B15 **BPR-5B has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-5B

BPD-1B

BPC-B

BPD-2B

BPR-4B

BPR-6B

BPE-BOARD-B

14012B16 **BPR-6B has reported an over-current on the 350VDC bulk.**

FRU List:
BPR-6B

BPD-1B

BPC-B

BPD-2B

BPR-4B

BPR-5B

BPE-BOARD-B

14012B20 **A BPA has reported No airflow in cage. Make sure that there are no blocked or dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.**

14012B21 **BPR-1B located in BPA-B has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.**

FRU List:
BPR-1B

14012B22 **BPR-2B located in BPA-B has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.**

FRU List:
BPR-2B

14012B23 **BPR-3B located in BPA-B has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.**

FRU List:
BPR-3B

14012B24 BPR-4B located in BPA-B has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

FRU List:
BPR-4B

14012B25 BPR-5B located in BPA-B has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

FRU List:
BPR-5B

14012B26 BPR-6B located in BPA-A has reported an Over Temperature. Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

FRU List:
BPR-6B

14012B31 BPA-B side detects that IBF-1B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-B BPR-1B)

FRU List:
IBF-1B

BPR-1B

BPC-B

BPE-BOARD-B

14012B32 BPA-B side detects that IBF-2B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-B BPR-2B)

FRU List:
IBF-2B

BPR-2B

BPC-B

BPE-BOARD-B

14012B33 BPA-B side detects that IBF-3B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-B BPR-3B)

FRU List:
IBF-3B

BPR-3B

BPC-B

BPE-BOARD-B

14012B34 BPA-A side detects that IBF-4B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-4A)

FRU List:
IBF-4B

BPR-4B

BPC-B

BPE-BOARD-B

14012B35 BPA-B side detects that IBF-5B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-B BPR-5B)

FRU List:
IBF-5B

BPR-5B

BPC-B

BPE-BOARD-B

14012B36 BPA-B side detects that IBF-6B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-B BPR-6B)

FRU List:
IBF-6B

BPR-6B

BPC-B

BPE-BOARD-B

14012B41 • 14012B55

14012B41 BPA-B side detects that IBF-1B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-1B)

FRU List:
IBF-1B

14012B42 BPA-B side detects that IBF-2B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-2B)

FRU List:
IBF-2B

14012B43 BPA-B side detects that IBF-3B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-3B)

FRU List:
IBF-3B

14012B44 BPA-B side detects that IBF-4B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-4B)

FRU List:
IBF-4B

14012B45 BPA-B side detects that IBF-5B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-5B)

FRU List:
IBF-5B

14012B46 BPA-B side detects that IBF-5B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-5B)

FRU List:
IBF-6B

14012B51 BPC-B side detects that IBF-1B is disconnected. (IBF is connected to BPA-B BPR-1B)

FRU List:
BPR-1B

IBF-1B

CBL-IBF1B

BPC-B

BPE-BOARD-B

14012B52 BPC-B side detects that IBF-2B is disconnected. (IBF is connected to BPA-B BPR-2B)

FRU List:
BPR-2B

IBF-2B

CBL-IBF2B

BPC-B

BPE-BOARD-B

14012B53 BPC-B side detects that IBF-3B is disconnected. (IBF is connected to BPA-B BPR-3B)

FRU List:
BPR-3B

IBF-3B

CBL-IBF3B

BPC-B

BPE-BOARD-B

14012B54 BPC-B side detects that IBF-4B is disconnected. (IBF is connected to BPA-B BPR-4B)

FRU List:
BPR-4B

IBF-4B

CBL-IBF4B

BPC-B

BPE-BOARD-B

14012B55 BPC-B side detects that IBF-5B is disconnected. (IBF is connected to BPA-B BPR-5B)

FRU List:
BPR-5B

IBF-5B

CBL-IBF5B

BPC-B

BPE-BOARD-B

14012B56 BPC-B side detects that IBF-6B is disconnected. (IBF is connected to BPA-B BPR-6B)

FRU List:
BPR-6B

IBF-6B

CBL-IBF6B

BPC-B

BPE-BOARD-B

14012B85 The A-side BPC has detected that the cross feed from the B-side has failed.

14012C51 DCA number one is defective.

FRU List:
IH_DCA-01

14013000 BPC A side has detected unmatched FRUs in the same CageID. Check P/Ns and codelevel of the Power FRUs in the cage.

14013005 BPC A side has detected miscabling to DCA port. Correct cabling error.

14013006 BPC A side detects cabling order to a DCA different than to the other DCAs. (This BPA sides view). Check and correct cable plugging.

14013007 BPC A side detects cabling order to a MDA different than to the other MDAs. (This BPA sides view). Check and correct cable plugging.

14013090 BPC B side has detected unmatched FRUs in the same Cage ID. Check P/Ns and code level of the Power FRUs in the cage.

14013095 BPC B side has detected miscabling to DCA port. Correct cabling error.

14013096 BPC B side detects cabling order to a DCA different than to the other DCAs. (This BPA sides view). Check and correct cable plugging.

14013097 BPC A side detects cabling order to a MDA different than to the other MDAs. (This BPA sides view). Check and correct cable plugging.

1401318A A communication fault between BPC B and the load on port J08 (A) has been detected.

FRU List:
BPCB-PORT-08-A

1401319A A communication fault between BPC B and the load on port J09 (A) has been detected.

FRU List:
BPCB-PORT-09-A

140131AB A communication fault between BPC B and the load on port J10 (B) has been detected.

FRU List:
BPCB-PORT-10-B

140131AC A communication fault between BPC B and the load on port J10 (C) has been detected.

FRU List:
BPCB-PORT-10-C

140131BB A communication fault between BPC B and the load on port J11 (B) has been detected.

FRU List:
BPCB-PORT-11-B

140131BC A communication fault between BPC B and the load on port J11 (C) has been detected.

FRU List:
BPCB-PORT-11-C

1401321A A communication fault between the BPD 1B and the load on port J01 has been detected (A).

FRU List:
BPD1B-PORT-01-A

1401322A A communication fault between the BPD 1B and the load on port J02 has been detected (A).

FRU List:
BPD1B-PORT-02-A

1401323A • 140132AC

1401323A A communication fault between the BPD 1B and the load on port J03 has been detected (A).

FRU List:
BPD1B-PORT-03-A

1401324A A communication fault between the BPD 1B and the load on port J04 has been detected (A).

FRU List:
BPD1B-PORT-04-A

1401325A A communication fault between the BPD 1B and the load on port J05 (A) has been detected.

FRU List:
BPD1B-PORT-05-A

1401326A A communication fault between the BPD 1B and the load on port J06 (A) has been detected.

FRU List:
BPD1B-PORT-06-A

1401327A A communication fault between the BPD 1B and the load on port J07 (A) has been detected.

FRU List:
BPD1B-PORT-07-A

1401327B A communication fault between the BPD 1B and the load on port J07 (B) has been detected.

FRU List:
BPD1B-PORT-07-B

1401327C A communication fault between the BPD 1B and the load on port J07 (C) has been detected.

FRU List:
BPD1B-PORT-07-C

1401328A A communication fault between the BPD 1B and the load on port J08 (A) has been detected.

FRU List:
BPD1B-PORT-08-A

1401328B A communication fault between the BPD 1B and the load on port J08 (B) has been detected.

FRU List:
BPD1B-PORT-08-B

1401328C A communication fault between the BPD 1B and the load on port J08 (C) has been detected.

FRU List:
BPD1B-PORT-08-C

1401329A A communication fault between the BPD 1B and the load on port J09 (A) has been detected.

FRU List:
BPD1B-PORT-09-A

1401329B A communication fault between the BPD 1B and the load on port J09 (B) has been detected.

FRU List:
BPD1B-PORT-09-B

1401329C A communication fault between the BPD 1B and the load on port J09 (C) has been detected.

FRU List:
BPD1B-PORT-09-C

140132AA A communication fault between the BPD 1B and the load on port J10 (A) has been detected.

FRU List:
BPD1B-PORT-10-A

140132AB A communication fault between the BPD 1B and the load on port J10 (B) has been detected.

FRU List:
BPD1B-PORT-10-B

140132AC A communication fault between the BPD 1B and the load on port J10 (C) has been detected.

FRU List:
BPD1B-PORT-10-C

1401331A A communication fault between the BPD 2B and the load on port J01 (A) has been detected.

FRU List:
BPD2B-PORT-01-A

1401332A A communication fault between the BPD 2B and the load on port J02 (A) has been detected.

FRU List:
BPD2B-PORT-02-A

1401333A A communication fault between the BPD 2B and the load on port J03 (A) has been detected.

FRU List:
BPD2B-PORT-03-A

1401334a A communication fault between the BPD 2B and the load on port J04 (A) has been detected.

FRU List:
BPD2B-PORT-04-A

1401335A A communication fault between the BPD 2B and the load on port J05 (A) has been detected.

FRU List:
BPD2B-PORT-05-A

1401336A A communication fault between the BPD 2B and the load on port J06 (A) has been detected.

FRU List:
BPD2B-PORT-06-A

1401337A A communication fault between the BPD 2B and the load on port J07 (A) has been detected.

FRU List:
BPD2B-PORT-07-A

1401337B A communication fault between the BPD 2B and the load on port J07 (B) has been detected.

FRU List:
BPD2B-PORT-07-B

1401337C A communication fault between the BPD 2B and the load on port J07 (C) has been detected.

FRU List:
BPD2B-PORT-07-C

1401338A A communication fault between the BPD 2B and the load on port J08 (A) has been detected.

FRU List:
BPD2B-PORT-08-A

1401338B A communication fault between the BPD 2B and the load on port J08 (B) has been detected.

FRU List:
BPD2B-PORT-08-B

1401338C A communication fault between the BPD 2B and the load on port J08 (C) has been detected.

FRU List:
BPD2B-PORT-08-C

1401339B A communication fault between the BPD 2B and the load on port J09 (B) has been detected.

FRU List:
BPD2B-PORT-09-B

1401339C A communication fault between the BPD 2B and the load on port J09 (C) has been detected.

FRU List:
BPD2B-PORT-09-C

140133AA A communication fault between the BPD 2B and the load on port J10 (A) has been detected.

FRU List:
BPD2B-PORT-10-A

140133AB A communication fault between the BPD 2B and the load on port J10 (B) has been detected.

FRU List:
BPD2B-PORT-10-B

140133AC A communication fault between the BPD 2B and the load on port J10 (C) has been detected.

FRU List:
BPD2B-PORT-10-C

1401341A A communication fault between the BPD 3B and the load on port J01 (A) has been detected.

FRU List:
BPD3B-PORT-01-A

1401342A A communication fault between the BPD 3B and the load on port J02 (A) has been detected.

FRU List:
BPD3B-PORT-02-A

1401343A A communication fault between the BPD 3B and the load on port J03 (A) has been detected.

FRU List:
BPD3B-PORT-03-A

1401344A A communication fault between the BPD 3B and the load on port J04 (A) has been detected.

FRU List:
BPD3B-PORT-04-A

14014001 The Auto-Code-Download (ACDL) of the power subsystem encountered an error. Contact next level of support for assistance.

14014002 The frame MTMS was not resolved by HMC. Contact next level of support for assistance.

14014003 The BPC has found duplicate Mailbox IP addresses on Network A. Contact next level of support for assistance.

14014004 The BPC has found duplicate Mailbox IP addresses on Network B. Contact next level of support for assistance.

14014005 A DHCP address was not assigned on Network A. Contact next level of support for assistance.

14014006 The firmware level on BPC A does not match the firmware level on BPC B.

FRU List:
NEXTLVL

14014007 A "power redundancy" command was run, which produced this log entry. This does not indicate a failure. The error log entry contains information that product engineering will use to investigate FRU redundancy problems.

Servicer Response:
Informational only; no action is required.

1401518A An over current has been detected on 350V between BPC A and the load on its port J08 (A).

FRU List:
BPCA-PORT-08-A

1401519A An over current has been detected on 350V between BPC A and the load on its port J09 (A).

FRU List:
BPCA-PORT-09-A

140151AB An over current has been detected on 350V between BPC A and the load on its port J10 (B).

FRU List:
BPCA-PORT-10-B

140151AC An over current has been detected on 350V between BPC A and the load on its port J10 C.

FRU List:
BPCA-PORT-10-C

140151BB An over current has been detected on 350V between BPC A and the load on its port J11 (B).

FRU List:
BPCA-PORT-11-B

140151BC An over current has been detected on 350V between BPC A and the load on its port J11 (C).

FRU List:
BPCA-PORT-11-C

1401521A An over current has been detected on 350V between BPD 1A and the load on its port J01 (A).

FRU List:
BPD1A-PORT-01-A

1401522A An over current has been detected on 350V between BPD 1A and the load on its port J02 (A).

FRU List:
BPD1A-PORT-02-A

1401523A An over current has been detected on 350V between BPD 1A and the load on its port J03 (A).

FRU List:
BPD1A-PORT-03-A

1401524A An over current has been detected on 350V between BPD 1A and the load on its port J04 (A).

FRU List:
BPD1A-PORT-04-A

1401525A An over current has been detected on 350V between BPD 1A and the load on its port J05 (A).

FRU List:
BPD1A-PORT-05-A

1401526A An over current has been detected on 350V between BPD 1A and the load on its port J06 (A).

FRU List:
BPD1A-PORT-06-A

1401527A An over current has been detected on 350V between BPD 1A and the load on its port J07 (A).

FRU List:
BPD1A-PORT-07-A

1401527B An over current has been detected on 350V between BPD 1A and the load on its port J07 (B).

FRU List:
BPD1A-PORT-07-B

1401527C An over current has been detected on 350V between BPD 1A and the load on its port J07 (C).

FRU List:
BPD1A-PORT-07-C

1401528A An over current has been detected on 350V between BPD 1A and the load on its port J08 (A).

FRU List:
BPD1A-PORT-08-A

1401528B An over current has been detected on 350V between BPD 1A and the load on its port J08 (B).

FRU List:
BPD1A-PORT-08-B

1401528C An over current has been detected on 350V between BPD 1A and the load on its port J08 (C).

FRU List:
BPD1A-PORT-08-C

1401529A An over current has been detected on 350V between BPD 1A and the load on its port J09 (A).

FRU List:
BPD1A-PORT-09-A

1401529B An over current has been detected on 350V between BPD 1A and the load on its port J09 (B).

FRU List:
BPD1A-PORT-09-B

1401529C An over current has been detected on 350V between BPD 1A and the load on its port J09 (C).

FRU List:
BPD1A-PORT-09-C

140152AA An over current has been detected on 350V between BPD 1A and the load on its port J10 (A).

FRU List:
BPD1A-PORT-10-A

140152AB An over current has been detected on 350V between BPD 1A and the load on its port J10 (B).

FRU List:
BPD1A-PORT-10-B

140152AC An over current has been detected on 350V between BPD 1A and the load on its port J10 (C).

FRU List:
BPD1A-PORT-10-C

1401531A An over current has been detected on 350V between BPD 2A and the load on its port J01 (A).

FRU List:
BPD2A-PORT-01-A

1401532A An over current has been detected on 350V between BPD 2A and the load on its port J02 (A).

FRU List:
BPD2A-PORT-02-A

1401533A An over current has been detected on 350V between BPD 2A and the load on its port J03 (A).

FRU List:
BPD2A-PORT-03-A

1401534A An over current has been detected on 350V between BPD 2A and the load on its port J04 (A).

FRU List:
BPD2A-PORT-04-A

1401535A An over current has been detected on 350V between BPD 2A and the load on its port J05 (A).

FRU List:
BPD2A-PORT-05-A

1401536A An over current has been detected on 350V between BPD 2A and the load on its port J06 (A).

FRU List:
BPD2A-PORT-06-A

1401537A An over current has been detected on 350V between BPD 2A and the load on its port J07 (A).

FRU List:
BPD2A-PORT-07-A

1401537B An over current has been detected on 350V between BPD 2A and the load on its port J07 (B).

FRU List:
BPD2A-PORT-07-B

1401537C An over current has been detected on 350V between BPD 2A and the load on its port J07 (C).

FRU List:
BPD2A-PORT-07-C

1401538A An over current has been detected on 350V between BPD 2A and the load on its port J08 (A).

FRU List:
BPD2A-PORT-08-A

1401538B An over current has been detected on 350V between BPD 2A and the load on its port J08 (B).

FRU List:
BPD2A-PORT-08-B

1401538C An over current has been detected on 350V between BPD 2A and the load on its port J08 (C).

FRU List:
BPD2A-PORT-08-C

1401539A An over current has been detected on 350V between BPD 2A and the load on its port J09 (A).

FRU List:
BPD2A-PORT-09-A

1401539B An over current has been detected on 350V between BPD 2A and the load on its port J09 (B).

FRU List:
BPD2A-PORT-09-B

1401539C An over current has been detected on 350V between BPD 2A and the load on its port J09 (C).

FRU List:
BPD2A-PORT-09-C

140153AA An over current has been detected on 350V between BPD 2A and the load on its port J10 (A).

FRU List:
BPD2A-PORT-10-A

140153AB An over current has been detected on 350V between BPD 2A and the load on its port J10 (B).

FRU List:
BPD2A-PORT-10-B

140153AC An over current has been detected on 350V between BPD 2A and the load on its port J10 (C).

FRU List:
BPD2A-PORT-10-C

1401541A An over current has been detected on 350V between BPD 3A and the load on its port J01 (A).

FRU List:
BPD3A-PORT-01-A

1401542A An over current has been detected on 350V between BPD 3A and the load on its port J02 (A).

FRU List:
BPD3A-PORT-02-A

1401543A An over current has been detected on 350V between BPD 3A and the load on its port J03 (A).

FRU List:
BPD3A-PORT-03-A

1401544A An over current has been detected on 350V between BPD 2A and the load on its port J04 (A).

FRU List:
BPD3A-PORT-04-A

1401618A An over current has been detected on 350V between BPC B and the load on its port J08 (A).

FRU List:
BPCB-PORT-08-A

1401619A An over current has been detected on 350V between BPC B and the load on its port J09 (A).

FRU List:
BPCB-PORT-09-A

140161AB An over current has been detected on 350V between BPC B and the load on its port J10 (B).

FRU List:
BPCB-PORT-10-B

140161AC An over current has been detected on 350V between BPC B and the load on its port J10 (C).

FRU List:
BPCB-PORT-10-B

140161BB An over current has been detected on 350V between BPC B and the load on its port J11 (B).

FRU List:
BPCB-PORT-11-B

140161BC An over current has been detected on 350V between BPC B and the load on its port J11 (C).

FRU List:
BPCB-PORT-11-C

1401621A An over current has been detected on 350V between BPD 1B and the load on its port J01 (A).

FRU List:
BPD1B-PORT-01-A

1401622A An over current has been detected on 350V between BPD 1B and the load on its port J02 (A).

FRU List:
BPD1B-PORT-02-A

1401623A • 140162AC

1401623A An over current has been detected on 350V between BPD 1B and the load on its port J03 (A).

FRU List:
BPD1B-PORT-03-A

1401624A An over current has been detected on 350V between BPD 1B and the load on its port J04 (A).

FRU List:
BPD1B-PORT-04-A

1401625A An over current has been detected on 350V between BPD 1B and the load on its port J05 (A).

FRU List:
BPD1B-PORT-05-A

1401626A An over current has been detected on 350V between BPD 1B and the load on its port J06 (A).

FRU List:
BPD1B-PORT-06-A

1401627A An over current has been detected on 350V between BPD 1B and the load on its port J07 (A).

FRU List:
BPD1B-PORT-07-A

1401627B An over current has been detected on 350V between BPD 1B and the load on its port J07 (B).

FRU List:
BPD1B-PORT-07-B

1401627C An over current has been detected on 350V between BPD 1B and the load on its port J07 (C).

FRU List:
BPD1B-PORT-07-C

1401628A An over current has been detected on 350V between BPD 1B and the load on its port J08 (A).

FRU List:
BPD1B-PORT-08-A

1401628B An over current has been detected on 350V between BPD 1B and the load on its port J08 (B).

FRU List:
BPD1B-PORT-08-B

1401628C An over current has been detected on 350V between BPD 1B and the load on its port J08 (C).

FRU List:
BPD1B-PORT-08-C

1401629A An over current has been detected on 350V between BPD 1B and the load on its port J09 (A).

FRU List:
BPD1B-PORT-09-A

1401629B An over current has been detected on 350V between BPD 1B and the load on its port J09 (B).

FRU List:
BPD1B-PORT-09-B

1401629C An over current has been detected on 350V between BPD 1B and the load on its port J09 (C).

FRU List:
BPD1B-PORT-09-C

140162AA An over current has been detected on 350V between BPD 1B and the load on its port J10 (A).

FRU List:
BPD1B-PORT-10-A

140162AB An over current has been detected on 350V between BPD 1B and the load on its port J10 (B).

FRU List:
BPD1B-PORT-10-B

140162AC An over current has been detected on 350V between BPD 1B and the load on its port J10 (C).

FRU List:
BPD1B-PORT-10-C

1401631A An over current has been detected on 350V between BPD 2B and the load on its port J01 (A).

FRU List:
BPD2B-PORT-01-A

1401632A An over current has been detected on 350V between BPD 2B and the load on its port J02 (A).

FRU List:
BPD2B-PORT-02-A

1401633A An over current has been detected on 350V between BPD 2B and the load on its port J03 (A).

FRU List:
BPD2B-PORT-03-A

1401634A An over current has been detected on 350V between BPD 2B and the load on its port J04 (A).

FRU List:
BPD2B-PORT-04-A

1401635A An over current has been detected on 350V between BPD 2B and the load on its port J05 (A).

FRU List:
BPD2B-PORT-05-A

1401636A An over current has been detected on 350V between BPD 2B and the load on its port J06 (A).

FRU List:
BPD2B-PORT-06-A

1401637A An over current has been detected on 350V between BPD 2B and the load on its port J07 (A).

FRU List:
BPD2B-PORT-07-A

1401637B An over current has been detected on 350V between BPD 2B and the load on its port J07 (B).

FRU List:
BPD2B-PORT-07-B

1401637C An over current has been detected on 350V between BPD 2B and the load on its port J07 (C).

FRU List:
BPD2B-PORT-07-C

1401638A An over current has been detected on 350V between BPD 2B and the load on its port J08 (A).

FRU List:
BPD2B-PORT-08-A

1401638B An over current has been detected on 350V between BPD 2B and the load on its port J07 (B).

FRU List:
BPD2B-PORT-08-B

1401638C An over current has been detected on 350V between BPD 2B and the load on its port J07 (C).

FRU List:
BPD2B-PORT-08-C

1401639A An over current has been detected on 350V between BPD 2B and the load on its port J09 (A).

FRU List:
BPD2B-PORT-09-A

1401639B An over current has been detected on 350V between BPD 2B and the load on its port J09 (B).

FRU List:
BPD2B-PORT-09-B

1401639C An over current has been detected on 350V between BPD 2B and the load on its port J07 (C).

FRU List:
BPD2B-PORT-09-C

140163AA An over current has been detected on 350V between BPD 2B and the load on its port J10 (A).

FRU List:
BPD2B-PORT-10-A

140163AB • 14017098

140163AB An over current has been detected on 350V between BPD 2B and the load on its port J07 (B).

FRU List:
BPD2B-PORT-10-B

140163AC An over current has been detected on 350V between BPD 2B and the load on its port J10 (C).

FRU List:
BPD2B-PORT-10-C

1401641A An over current has been detected on 350V between BPD 3B and the load on its port J01 (A).

FRU List:
BPD3B-PORT-01-A

1401642A An over current has been detected on 350V between BPD 3B and the load on its port J02 (A).

FRU List:
BPD3B-PORT-02-A

1401643A An over current has been detected on 350V between BPD 3B and the load on its port J03 (A).

FRU List:
BPD3B-PORT-03-A

1401644A An over current has been detected on 350V between BPD 3B and the load on its port J04 (A).

FRU List:
BPD3B-PORT-04-A

14017091 The BPC in BPA-A is defective.

FRU List:
BPC-A

14017092 BPD-1 is defective in BPA-A.

FRU List:
BPD-1A

BPC-A

14017093 BPD-2 is defective in BPA-A.

FRU List:
BPD-2A

BPC-A

14017094 BPD-3 is defective in BPA-A.

FRU List:
BPD-3A

BPC-A

14017095 BPA-A BPR-1 is defective.

FRU List:
BPR-1A

BPC-A

BPD-1A

BPD-2A

IBF-1A

BPE-BOARD-A

14017096 BPA-A BPR-2 is defective.

FRU List:
BPR-2A

BPC-A

BPD-1A

BPD-2A

IBF-2A

BPE-BOARD-A

14017097 BPA-A BPR-3 is defective.

FRU List:
BPR-3A

BPC-A

BPD-1A

BPD-2A

IBF-3A

BPE-BOARD-A

14017098 BPA-A BPR-4 is defective.

FRU List:
BPR-4A

BPC-A

BPD-1A

BPD-2A

IBF-3A

BPE-BOARD-A

14017099 BPA-A BPR-5 is defective.**FRU List:**

BPR-5A

BPC-A

BPD-1A

BPD-2A

IBF-3A

BPE-BOARD-A

1401709A BPA-A BPR-6 is defective.**FRU List:**

BPR-5A

BPC-A

BPD-1A

BPD-2A

IBF-3A

BPE-BOARD-A

1401709B BPA-A BPH is defective.**FRU List:**

BPH-A

BPC-A

140170A1 BPC-A side detects that IBF-1A is defective. (IBF is connected to BPA-A BPR-1A)**FRU List:**

IBF-1A

BPR-1A

CBL-IBF1A

BPC-A

BPE-BOARD-A

140170A2 BPC-A side detects that IBF-2A is defective. (IBF is connected to BPA-A BPR-2A)**FRU List:**

IBF-2A

BPR-2A

CBL-IBF2A

BPC-A

BPE-BOARD-A

140170A3 BPC-A side detects that IBF-3A is defective. (IBF is connected to BPA-A BPR-3A)**FRU List:**

IBF-3A

BPR-3A

CBL-IBF3A

BPC-A

BPE-BOARD-A

140170A4 BPC-A side detects that IBF-4A is defective. (IBF is connected to BPA-A BPR-4A)**FRU List:**

IBF-4A

BPR-4A

CBL-IBF4A

BPC-A

BPE-BOARD-A

140170A5 BPC-A side detects that IBF-5A is defective. (IBF is connected to BPA-A BPR-5A)**FRU List:**

IBF-5A

BPR-5A

CBL-IBF5A

BPC-A

BPE-BOARD-A

140170A6 • 14017199

140170A6 **BPC-A side detects that IBF-6A is defective. (IBF is connected to BPA-A BPR-6A)**

FRU List:
IBF-6A

BPR-6A

CBL-IBF6A

BPC-A

BPE-BOARD-A

14017191 **The BPC in BPA-B is defective.**

FRU List:
BPC-B

14017192 **BPD-1 is defective in BPA-B.**

FRU List:
BPD-1B

BPC-B

14017193 **BPD-2 is defective in BPA-B.**

FRU List:
BPD-2B

BPC-B

14017194 **BPD-3 is defective in BPA-B.**

FRU List:
BPD-3B

BPC-B

14017195 **BPA-A BPR-1 is defective.**

FRU List:
BPR-1B

BPC-B

BPD-1B

BPD-2B

IBF-1B

BPE-BOARD-B

14017196 **BPA-B BPR-2 is defective.**

FRU List:
BPR-2B

BPC-B

BPD-1B

BPD-2B

IBF-2B

BPE-BOARD-B

14017197 **BPA-B BPR-3 is defective.**

FRU List:
BPR-3B

BPC-B

BPD-1B

BPD-2B

IBF-3B

BPE-BOARD-B

14017198 **BPA-B BPR-4 is defective.**

FRU List:
BPR-4B

BPC-B

BPD-1B

BPD-2B

IBF-3B

BPE-BOARD-B

14017199 **BPA-B BPR-5 is defective.**

FRU List:
BPR-5B

BPC-B

BPD-1B

BPD-2B

IBF-3B

BPE-BOARD-B

1401719A **BPA-B BPR-6 is defective.**
FRU List:
 BPR-5B

BPC-B

BPD-1B

BPD-2B

IBF-3B

BPE-BOARD-B

1401719B **BPA-B BPH is defective.**
FRU List:
 BPH-B

BPC-B

140171A1 **BPC-B side detects that IBF-1B is defective. (IBF is connected to BPA-B BPR-1B)**
FRU List:
 IBF-1B

BPR-1B

CBL-IBF1B

BPC-B

BPE-BOARD-B

140171A2 **BPC-B side detects that IBF-2B is defective. (IBF is connected to BPA-B BPR-2B)**
FRU List:
 IBF-2B

BPR-2B

CBL-IBF2B

BPC-B

BPE-BOARD-B

140171A3 **BPC-B side detects that IBF-3B is defective. (IBF is connected to BPA-B BPR-3B)**
FRU List:
 IBF-3B

BPR-3B

CBL-IBF3B

BPC-B

BPE-BOARD-B

140171A4 **BPC-B side detects that IBF-4B is defective. (IBF is connected to BPA-B BPR-4B)**
FRU List:
 IBF-4B

BPR-4B

CBL-IBF4B

BPC-B

BPE-BOARD-B

140171A5 **BPC-B side detects that IBF-5B is defective. (IBF is connected to BPA-B BPR-5B)**
FRU List:
 IBF-5B

BPR-5B

CBL-IBF5B

BPC-B

BPE-BOARD-B

140171A6 **BPC-B side detects that IBF-6B is defective. (IBF is connected to BPA-B BPR-6B)**
FRU List:
 IBF-6B

BPR-6B

CBL-IBF6B

BPC-B

BPE-BOARD-B

14018072 BPA-A has reported a temperature warning in cage. Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

14018073 BPA-B has reported a temperature warning in cage. Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

140180C3 A-side BPC detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

FRU List:
EPO-SWITCH

BPC-A

CBL-BPCA-EPO

14018130 CAGE P/T Fru recovery. Cage in power recovery mode for information only.

14018131 The UEPO switch has been used. This is an informational SRC.

14018132 A send secure vpd command was received. Informational SRC.

14018133 A TMS (60) was received - Informational SRC.

FRU List:
\$NOBPAFRU

14018134 This contains an ACDL log - Informational SRC.

14018135 Informational message: An internal bulk power software error occurred.

Servicer Response:
Informational only; no action is required.

14018136 A processor node has entered throttling mode.

Servicer Response:
Informational only; no action is required.

140181C3 B-side BPC detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

FRU List:
EPO-SWITCH

BPC-B

CBL-BPCB-EPO

(1750) Disk unit reference codes

If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.

17503002 Addressed device is not responding

FRU List:
FCPORT

FCDEV

FCIOA

FCINTF

OPT_CLN

17503010 Disk device returned wrong response to IOP

FRU List:
FCDEV

FCIOA

OPT_CLN

17503020 Storage subsystem configuration error

Servicer Response:
If an MES is being installed, verify the configuration.

FRU List:
FCDEV

FCIOA

OPT_CLN

17503029 A device replacement has occurred**Servicer Response:**

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

17503100 Fibre Channel interface error occurred**FRU List:**

FCINTF

FCDEV

FCIOA

OPT_CLN

17503109 IOP timed out a disk command**FRU List:**

FCDEV

FCINTF

FCIOA

OPT_CLN

17503160 The volume in use is no longer accessible.**Servicer Response::**

The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

FRU List:

FCDEV

17503161 The volume in use is no longer accessible.**Servicer Response::**

The storage subsystem copy services functions have caused the volume in use to no longer be accessible.

FRU List:

FCDEV

175034FF Format in progress**Servicer Response:**

The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

1750FFF3 Disk media format bad**FRU List:**

FCDEV

1750FFF4 Disk device problem**FRU List:**

FCDEV

1750FFF5 Disk sector read error**FRU List:**

FCDEV

1750FFF6 Disk device detected recoverable error**Servicer Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

FCDEV

1750FFFA Disk device wrong response was recovered by the IOP**Servicer Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

FCDEV

FCIOA

OPT_CLN

1750FFFE Temporary Fibre Channel interface error**Servicer Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

FCINTF

FCDEV

FCIOA

OPT_CLN

(180A) Device backplane reference codes

Device backplane reference codes

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1.

Note: The 673x is a read cache. Perform all actions required for 673x as a disk drive and logic card except where separate 673x cache instructions are provided.

180A1511	A non-fatal error occurred on power supply 1	180A3002	Addressed device backplane failed to respond to selection
FRU List:		FRU List:	
DISKPWR		DEVBPLN	
DISKFAN		STORIOA	
FI01106		FI01140	
DEVBPLN		FI01106	
180A1515	A fatal error occurred on power supply 1	180A3109	I/O adapter timed out a device backplane command
FRU List:		FRU List:	
DISKPWR		DEVBPLN	
DISKFAN		STORIOA	
FI01106		FI01140	
DEVBPLN		FI01106	
180A1521	A non-fatal error occurred on power supply 2	180A7611	A fatal error occurred on redundant fan 1
FRU List:		FRU List:	
DISKPWR		DISKFAN	
DISKFAN			
FI01106		180A7614	A fatal error occurred on fan 1
DEVBPLN		FRU List:	
		DISKFAN	
180A1525	A fatal error occurred on power supply 2	180A7621	A fatal error occurred on redundant fan 2
FRU List:		FRU List:	
DISKPWR		DISKFAN	
DISKFAN			
FI01106		180A7624	A fatal error occurred on fan 2
DEVBPLN		FRU List:	
		DISKFAN	
		180A7631	A fatal error occurred on redundant fan 3

FRU List:
DISKFAN

180A7634 A fatal error occurred on fan 3

FRU List:
DISKFAN

180A8401 Removable media power fault

FRU List:
DEVBPLN

180A8404 System log entry only, no service action
 required

180AFFF4 Device backplane problem

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

Chapter 3. 2xxx Reference Codes

2xxx Reference Codes

(2058) Reference codes

I/O adapter hardware error

2058B990 I/O adapter hardware error detected

FRU List:
IOA

IOP

MA_BRDG

FI00130

(20A8, 20Dx, 20EE, 20FF, 2102) Model 185 and A50 reference (error) codes

Model 185 and A50 reference (error) codes

20A80000 Insufficient information to boot.

Servicer Response:

Verify that the network addresses on the server and gateway are correct.

Servicer Response:

Do the following:

1. Verify that the bootp server is configured correctly for this client.
2. Check the network connections, then retry the operation.

20A80001 Client IP address is already in use by another network device.

Servicer Response:

Verify that the network addresses on the server and gateway are correct.

20A80006 Boot image too large.

Servicer Response:

Do the following:

1. Verify that the bootp server is configured correctly for this client.
2. Check the network connections, then retry the operation.

20A80002 Cannot get gateway IP address.

Servicer Response:

Verify that the network addresses on the server and gateway are correct.

20D0000F Self-test failed on device. The error or location code information may not be available.

Servicer Response:

Do the following:

1. If a location code is specified, replace the device at that location.
2. Replace the system backplane.

20A80003 Cannot get server hardware address.

Servicer Response:

Verify that the network addresses on the server and gateway are correct.

FRU List:
SYSBKP2

20A80004 Bootp failed.

Servicer Response:

Do the following:

1. Verify that the bootp server is configured correctly for this client.
2. Check the network connections, then retry the operation.

20D00010 Selftest failed on device. Cannot locate package.

Servicer Response:

Do the following:

20A80005 File transmission (TFTP) failed.

1. If a location code is reported with the error, replace the device at that location code.
2. Check for system firmware updates, and apply if available.
3. Replace the system backplane.

FRU List:

SYSBKP2

20D00011 RTAS attempt to allocate memory failed.
Servicer Response:

Do the following:

1. Check for system firmware updates, and apply if available.
2. Replace the system backplane.

FRU List:

SYSBKP2

20D008xx Failure to access VPD data.
Servicer Response:

Where xx is:

xx Description

0E, 0F Machine type or model

10, 11 System serial number

16, 17 Universal un

FRU List:

SYSBKP2

20D00900 Failed to generate universal unique ID (UUID) value.
Servicer Response:

Do the following:

1. Replace the memory DIMMs in the system.
2. Replace the system backplane.

FRU List:

SYSBKP2

20D00901 Failed to communicate with the BMC. Replace the system backplane.
FRU List:

SYSBKP2

20D00902 The system is booting from the permanent (B) firmwareside.
Servicer Response:

If the system was already booting from the permanent (B)side, this is an informational message.

If it was not, it indicates that the system was unable to boot from the temporary (A) firmware side. Do the following:

1. Follow the operating system procedure to reject the firmware update.
2. Reinstall the latest system firmware.
3. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

20D00903 The firmware was not able to find the /openprom package.
Servicer Response:

Do the following:

1. Check for system firmware updates and apply if available.
2. Replace the system backplane.

FRU List:

SYSBKP2

20D10004 Failed to locate BMC device tree node.
Servicer Response:

Do the following:

1. Check for system firmware updates, and apply if available.
2. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

20D10005 Failed to reboot system.
Servicer Response:

Do the following:

1. Check for system firmware updates, and apply if available.
2. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

20D10006 Failed to reboot system.**Servicer Response:**

Do the following:

1. Check for system firmware updates, and apply if available.
2. If the problem persists, replace the system backplane.

FRU List:SYSBKP2

20D10007 Firmware error before stdout ready.**Servicer Response:**

Do the following:

1. Check for system firmware updates, and apply if available.
2. If the problem persists, replace the system backplane.

FRU List:SYSBKP2

20D1000A Failed to send boot failed message to the BMC.**Servicer Response:**

Do the following:

1. Check for system firmware updates, and apply if available.
2. If the problem persists, replace the system backplane.

FRU List:SYSBKP2

20D10010 Stack underflow from fiber channel adapter.**Servicer Response:**

Do the following:

1. Check for microcode updates for the fiber channel adapter, and apply if available.
2. Check for system firmware updates, and apply if available.
3. If the problem persists, replace the system backplane.

FRU List:SYSBKP2

20D10011 Failed to set the watchdog timer in the base motherboard controller.**Servicer Response:**

Do the following:

1. Check for system firmware updates, and apply if available.

2. If the problem persists, contact your next level of support.

FRU List:SYSBKP2

20EE000A Reserved**Servicer Response:**

Contact your next level of support for assistance.

FRU List:NEXTLVL

20EE000B The system was not able to find an operating system on the devices in the boot list.**Servicer Response:**

Verify that the boot list contains at least one device with a valid operating system boot image.

20EE000F Unable to find the package node.**Servicer Response:**

Do the following:

1. Check for system firmware updates, and apply if available.
2. If the problem persists, replace the system backplane.

FRU List:SYSBKP2

20EE0010 Unable to run the root vpd method.**Servicer Response:**

Do the following:

1. Check for system firmware updates, and apply if available.
2. If the problem persists, replace the system backplane.

FRU List:SYSBKP2

20EE0011 Unable to execute the vpd method.**Servicer Response:**

Do the following:

1. Check for system firmware updates, and apply if available.
2. If the problem persists, replace the system backplane.

FRU List:SYSBKP2

20EE0012 Unable to execute the mem-dimm-vpd method.

Service Response:

Do the following:

1. Check for system firmware updates, and apply if available.
2. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

20EE0015 Failed to read VPD boot path field value.

Service Response:

Do the following:

1. Verify that the boot list is correct.
2. Check for system firmware updates, and apply if available.
3. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

20EE0016 Failed to update VPD with the new boot path field value.

Service Response:

Do the following:

1. Verify that the boot list is correct.
2. Check for system firmware updates, and apply if available.
3. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

20EE0020 The environment variable boot-device exceeds the allowed character limit.

Service Response:

Do the following:

1. Verify that the boot list is correct.
2. Check for system firmware updates, and apply if available.
3. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

20EE0021 The environment variable boot-device contained more than seven entries.

Service Response:

Do the following:

1. Verify that the boot list is correct.
2. Check for system firmware updates, and apply if available.
3. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

20EE0022 The environment variable boot-device contained an entry that exceeded 255 characters in length.

Service Response:

Do the following:

1. Verify that the boot list is correct.
2. Check for system firmware updates, and apply if available.
3. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

20EE0100 Fcode resident on an I/O adapter is not supported on this system. This error code only affects boot-time operation, not the functionality of the adapter under the operating system.

Service Response:

Informational message. The Fcode driver of the adapter is not supported on this system. A compatible driver may be produced in the future, but does not guarantee one. Additional information may be available from your next level of support.

20EE0101 The baud rate specified for the com port is invalid.

Service Response:

Do the following:

1. Use the System Management Services (SMS) menus to check the baud rate. Reset it to a valid value, if necessary.
2. Check for system firmware updates, and apply if available.
3. Replace the system backplane.

FRU List:

SYSBKP2

20EE0102 **An invalid number of data bits was specified for thecom port.**

Service Response:

Do the following:

1. Use the SMS menus to check the data bit setting. Reset it to a valid value, if necessary.
2. Check for system firmware updates, and apply if available.
3. Replace the system backplane.

FRU List:
SYSBKP2

20EE0103 **An invalid number of stop bits was specified for thecom port.**

Service Response:

do the following:

1. Use the SMS menus to check the stop bit setting. Reset it to a valid value, if necessary.
2. Check for system firmware updates, and apply if available.
3. Replace the system backplane.

FRU List:
SYSBKP2

20EE0104 **An invalid parity setting was specified for the comport.**

Service Response:

Do the following:

1. Use the SMS menus to check the parity setting. Reset it to a valid value, if necessary.
2. Check for system firmware updates, and apply if available.
3. Replace the system backplane.

FRU List:
SYSBKP2

20EE0105 **An invalid handshake setting was specified for the comport.**

Service Response:

Do the following:

1. Use the SMS menus to check the handshake setting. Reset it to a valid value, if necessary.
2. Check for system firmware updates, and apply if available.
3. Replace the system backplane.

FRU List:
SYSBKP2

20EE0200 **Installing an image to the permanent side is not allowed.**

Service Response:

Do the following:

1. Boot from the temporary side.
2. Install the firmware.

Note: If you are not able to boot from the temp side, perform the system firmware rejection function in the operating system, then attempt to install the latest firmware.

20EE0201 **The format of the firmware installation image is not correct.**

Service Response:

Install the firmware using a known good image.

20EE0210 **Installing system firmware failed; the firmware may be corrupted.**

Service Response::

Install the firmware using a known good image.

Note: If the system firmware is corrupted, perform the system firmware rejection function, then attempt to install the firmware again.

20EE0220 **Installing the system firmware failed; the firmware may be corrupted.**

Service Response::

Install the firmware using a known good image.

Note: If the system firmware is corrupted, perform the system firmware rejection function, then attempt to install the firmware again.

20FF0001 **Problem with VPD.**

Service Response:

Do the following:

1. Replace the part indicated by the location code.
2. If no location code is specified, replace the system backplane.

FRU List:
SYSBKP2

21020010 **USB CD-ROM remained busy longer than the time allowed.**

Service Response:

Do the following:

1. Retry the operation.
2. Check for system firmware updates, and apply if available.
3. Replace the USB CD-ROM drive.

4. Replace the system backplane.

FRU List:
SYSBKP2

21020011 USB CD-ROM: execution of ATA/ATAPI command was not completed within the time allowed.

Servicer Response:

Do the following:

1. Retry the operation.
2. The CD in the USB CD-ROM drive may not be readable. Try another CD.
3. Replace the USB CD-ROM drive.
4. Replace the system backplane.

FRU List:
SYSBKP2

21020012 USB CD-ROM: execution of ATA/ATAPI command by the USB CD-ROM failed.

Servicer Response:

Do the following:

1. Check the power and signal connectors going to the USB CD-ROM drive, and correct any problems that you find.
2. Retry the operation. If the problem persists, continue with the next step.
3. The CD in the USB CD-ROM drive may not be readable. Try another CD. If the problem persists, continue with the next step.
4. Replace the USB CD-ROM drive.
5. Replace the system backplane.

FRU List:
SYSBKP2

21020013 USB CD-ROM: bootable CD is missing from the CD-ROM drive.

Servicer Response:

Place a bootable CD-ROM in the USB CD-ROM drive.

21020014 USB CD-ROM: the CD in the drive has been changed.

Servicer Response:

Do the following:

1. Retry the operation.
2. Check for system firmware updates, and apply if available.
3. Replace the USB CD-ROM drive.
4. Replace the system backplane.

FRU List:
SYSBKP2

21020015 USB CD-ROM: ATA/ATAPI packed command execution by USB CD-ROM failed.

Servicer Response:

do the following:

1. The CD in the USB CD-ROM drive may not be readable. Try another CD. If the problem persists, continue with the next step.
2. Check for system firmware updates, and apply if available.
3. Replace the USB CD-ROM drive.
4. Replace the system backplane.

FRU List:
SYSBKP2

(2105, 2107) Disk unit reference codes

If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.

21053002 Addressed device is not responding

FRU List:
FCPORT

FCDEV

FCIOA

FCINTF

OPT_CLN

21053010 Disk device returned wrong response to IOP

FRU List:
FCDEV

FCIOA

OPT_CLN

21053020 Storage subsystem configuration error

Servicer Response:

If an MES is being installed, verify the configuration.

FRU List:
FCDEV

FCIOA

OPT_CLN

21053029 A device replacement has occurred

Service Response:

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

21053100 Fibre Channel interface error occurred

FRU List:
FCINTF

FCDEV

FCIOA

OPT_CLN

21053109 IOP timed out a disk command

FRU List:
FCDEV

FCINTF

FCIOA

OPT_CLN

21053160 The volume in use is no longer accessible.

Service Response::

The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

FRU List:
FCDEV

21053161 The volume in use is no longer accessible.

Service Response::

The storage subsystem copy services functions have caused the volume in use to no longer be accessible.

FRU List:
FCDEV

210534FF Format in progress

Service Response:

The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

2105FFF3 Disk media format bad

FRU List:
FCDEV

2105FFF4 Disk device problem

FRU List:
FCDEV

2105FFF5 Disk sector read error

FRU List:
FCDEV

2105FFF6 Disk device detected recoverable error

Service Response:

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
FCDEV

2105FFFA Disk device wrong response was recovered by the IOP

Service Response:

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
FCDEV

FCIOA

OPT_CLN

2105FFFE Temporary Fibre Channel interface error

Service Response:

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
FCINTF

FCDEV

FCIOA

OPT_CLN

21073002 Addressed device is not responding**FRU List:**
FCPORT

FCDEV

FCIOA

FCINTF

OPT_CLN

21073010 Disk device returned wrong response to IOP**FRU List:**
FCDEV

FCIOA

OPT_CLN

21073020 Storage subsystem configuration error**Servicer Response:**

If an MES is being installed, verify the configuration.

FRU List:
FCDEV

FCIOA

OPT_CLN

21073029 A device replacement has occurred**Servicer Response:**No action required. This reference code is logged for information only.

21073100 Fibre Channel interface error occurred**FRU List:**
FCINTF

FCDEV

FCIOA

OPT_CLN

21073109 IOP timed out a disk command**FRU List:**
FCDEV

FCINTF

FCIOA

OPT_CLN

21073160 The volume in use is no longer accessible.**Servicer Response::**

The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

FRU List:
FCDEV

21073161 The volume in use is no longer accessible.**Servicer Response::**

The storage subsystem copy services functions have caused the volume in use to no longer be accessible.

FRU List:
FCDEV

210734FF Format in progress**Servicer Response:**The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

2107FFF3 Disk media format bad**FRU List:**
FCDEV

2107FFF4 Disk device problem**FRU List:**
FCDEV

2107FFF5 Disk sector read error**FRU List:**
FCDEV

2107FFF6 Disk device detected recoverable error**Servicer Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
FCDEV

2107FFFA Disk device wrong response was recovered by the IOP**Servicer Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
FCDEV

FCIOA

OPT_CLN

2107FFFE Temporary Fibre Channel interface error

Service Response:

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
FCINTF

FCDEV

FCIOA

OPT_CLN

(220x, 25Ax, 25Cx, 2602) Model 185 and A50 reference (error) codes

Model 185 and A50 reference (error) codes

22000001 PCI Ethernet adapter failure

Service Response:

Replace the adapter.

22001001 PCI Ethernet adapter failure

Service Response:

Replace the adapter.

22001002 PCI Ethernet adapter failure

Service Response:

Replace the adapter.

22003002 Gigabit Ethernet adapter failure

Service Response:

- If the location code reported with the error specifies the adapter in the PCI slot, replace that adapter.
- If the location code specifies the integrated Ethernet, replace the system backplane.

FRU List:
SYSBKP2

22003003 Gigabit Ethernet adapter failure

Service Response:

If there is an adapter plugged into the PCI slot in the system, remove it. Then power the system back up.

- If this error code does not occur again, replace the PCI adapter card that you removed.
- If this error code occurs again, replace the system backplane.

FRU List:
SYSBKP2

22010001 PCI token ring adapter failure

Service Response:

Replace the adapter.

22011001 PCI token ring adapter failure

Service Response:

Replace the adapter.

25A00001 L2 cache controller failure. Do the following:

Service Response:

1. Check for system firmware updates, and apply if available.
2. Replace the system backplane.

FRU List:
SYSBKP2

25A10001 Cache L2 SRAM failure

Service Response:

1. Check for system firmware updates, and apply if available.
2. Replace the system backplane.

FRU List:
SYSBKP2

25A80000 Initialization failed, device test failed

Service Response:

Refer to the actions for error code 25A80xxx.

25A80100 NVRAM data validation check failed.

Service Response:

Do the following:

1. Before replacing any system component, turn off and then turn on the system unit. Then, retry the operation.
2. If the problem persists, refer to the actions for error code 25A80xxx.

25A80201 Unable to expand target partition:

saving configurationvariable

Servicer Response:

Refer to the actions for error code 25A80xxx.

**25A80202 Unable to expand target partition:
writing error logentry**
Servicer Response:

Refer to the actions for error code 25A80xxx.

**25A80203 Unable to expand target partition:
writing VPD data**
Servicer Response:

Refer to the actions for error code 25A80xxx.

**25A80210 Setenv/\$Setenv parameter error: name
contains a nullcharacter**
Servicer Response:

Refer to the actions for error code 25A80xxx.

**25A80211 Setenv/\$Setenv parameter error: name
contains a nullcharacter**
Servicer Response:

Refer to the actions for error code 25A80xxx.

**25A80998 NVRAMRC script evaluation error:
command line executionerror**
Servicer Response:

Running of a command line within the nvram configurationvariable **nvramrc** (script) resulted in a throw being run.

This script can be modified by the firmware SMS utilities, the operating system, a PCI adapter ROM code or utility, or an operator (by using the open firmware script editing command **nvedit**). Resolving the problem may not be possible without a detailed analysis of the NVRAM script, the current system configuration, and device tree contents. Contact your next level of support for assistance.

FRU List:

NEXTLVL

**25A80999 NVRAMRC script evaluation error:
stack unbalanced oncompletion**
Servicer Response:

This is a firmware debug environment error. No useraction or FRU replacement exists for this error. If this error persists, call your next level of support.

FRU List:

NEXTLVL

25A80xxx NVRAM problems
Servicer Response:

Errors reported against NVRAM can be caused by low battery voltage and (more rarely) power outages that occur during normal system usage. With the exception of the 25A80000 error, these errors are warnings that the NVRAM data had to be reestablished and do not require any FRU replacement unless the error is persistent. When one of these errors occurs, any system customization (for example, boot device list) information has been lost. If the error is persistent, replace the system backplane.

FRU List:

SYSBKP2

25C00000 No DIMMs detected.
Servicer Response:

Do the following:

1. Ensure that all DIMMs are properly seated. Reseat them if necessary, and reboot the system.
2. Replace the DIMMs one at a time until the failing DIMM is isolated.
3. Replace the system backplane.

FRU List:

SYSBKP2

25C0xxyy DIMM failure.
Servicer Response:

DIMM failure, where xx and yy indicate: xx

Description----- 01 DIMM2 missing 10
DIMM1 missing 12 DIMM1 not supported 14 DIMM1
failed 21 DIMM2 not supported 22 DIMM1 and DIMM2
unsupported 41 DIMM2 failed 88 DIMM1 and DIMM2
mismatch yy Description ----- 01
DIMM4 missing 10 DIMM3 missing 12 DIMM3 not
supported 14 DIMM3 failed 21 DIMM4 not supported
22 DIMM3 and DIMM4 unsupported 41 DIMM4 failed 88
DIMM3 and DIMM4 mismatch Do the following:

1. Verify that the DIMMs in the system are supported. Replace all unsupported DIMMs, then reboot the system.
2. Verify that the DIMMs are installed in pairs. If they are not, properly install the DIMMs. Reboot the system.
3. Ensure that the DIMMs are properly seated; reseat if necessary. Reboot the system.
4. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

25C10001 Memory DIMM failure**Servicer Response:**

1. Ensure that the DIMMs are properly seated; reseat if necessary. Reboot the system.
2. Replace the DIMM specified by the location code, then reboot the system.
3. Replace the companion DIMM in the pair, then reboot the system.
4. If the problem persists, replace the system backplane.

FRU List:
SYSBKP2

25C10002 Memory DIMM is not supported**Servicer Response:**

1. Verify that the DIMMs in the system are supported. Replace all unsupported DIMMs, then reboot the system.
2. Verify that the DIMMs are installed in one or more pairs. If they are not, properly install the DIMMs, then reboot the system.
3. If the problem persists, replace the system backplane.

FRU List:
SYSBKP2

25C10003 The companion (in the pair) of the memory DIMM specified by the location code is failing, unsupported, missing, or unmatched.**Servicer Response:**

Do the following:

1. Verify that the DIMMs in the system are supported. Replace all unsupported DIMMs, then reboot the system.
2. Verify that the DIMMs are installed in one or more pairs. If they are not, properly install the DIMMs, then reboot the system.

3. Replace the companion of the DIMM specified by the location code.
4. Replace the DIMM specified by the location code.
5. If the problem persists, replace the system backplane.

FRU List:
SYSBKP2

26020008 PCI device fcode evaluation error.**Servicer Response:**

- If the location code identifies a slot, do the following:
 1. Reseat the adapter and reboot the system.
 2. Replace the adapter.
 3. Check for system firmware updates, and apply if available.
 4. If the problem persists, replace the system backplane.
- If the location code identifies the system backplane, replace the system backplane.

FRU List:
SYSBKP2

26020009 The PCI adapter Fcode left a data stack imbalance.**Servicer Response:**

Do the following:

1. Check for adapter microcode updates, and apply if available.

Note: Using the adapter for booting is not recommended until after you install the new adapter microcode.

2. If no microcode updates are available, or if installing new microcode does not correct the problem, replace the PCI adapter.

(2689) Reference codes

I/O adapter card reference codes.

26890A17 A permanent I/O processor failure occurred

FRU List:
2689

AJDG301

AJDGP01

FRU List:
AJDGP01

AJDG301

2689

26890A22 Adapter card storage error**26891307 I/O adapter resource not available.**

FRU List:
AJDGP01

AJDG301

26891310 **I/O adapter resource not available.**
Servicer Response:

The INA processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

FRU List:
2689

AJDGP01

26893000 **An I/O adapter failure occurred.**

FRU List:
2689

AJDGP01

26893001 **I/O adapter Licensed Internal Code failed.**

FRU List:
2689

AJDGP01

26893006 **An I/O adapter failure occurred.**

FRU List:
2689

ANYBUS

26893080 **I/O adapter Licensed Internal Code failed.**

FRU List:
AJDGP01

26893081 **I/O adapter error; logged only.**

26893084 **An I/O adapter failure occurred.**

FRU List:
AJDGP01

2689

26893087 **I/O adapter resource not available.**

FRU List:
AJDGP01

AJDG301

NTUSER

26896070 **An I/O adapter failure occurred.**

FRU List:
2689

26896071 **I/O adapter Licensed Internal Code failed.**

FRU List:
AJDGP01

26896072 **I/O adapter Licensed Internal Code failed.**

FRU List:
AJDGP01

2689

26896075 **I/O adapter resource not available.**

FRU List:
AJDGP01

26896083 **I/O adapter Licensed Internal Code failed.**

FRU List:
AJDGP01

2689

26896085 **I/O adapter Licensed Internal Code failed.**

FRU List:
AJDGP01

2689

26896201 **A permanent I/O processor failure occurred**

FRU List:
2689

AJDGP01

26896202 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

2689

26896203	A permanent I/O processor failure occurred
FRU List: NETSERV	
2689	
AJDGP01	

26896210	I/O processor Licensed Internal Code error
FRU List: NETSERV	
AJDGP01	

26896222	A permanent I/O processor failure occurred
FRU List: AJDGP01	
2689	

26896223	A permanent I/O processor failure occurred
FRU List: 2689	
AJDGP01	

26896225	A permanent I/O processor failure occurred
FRU List: AJDGP01	
AJDG301	
2689	

26896226	I/O processor card detected device error
FRU List: AJDG301	
AS4NTDD	

26896227	A HostLAN error was detected
FRU List: NTUSER	
AJDGP01	
2689	

26896228	The Windows® operating system initiated a warm boot
FRU List: AJDGP01	
2689	

26896501	A Windows fatal error occurred
FRU List: 2689	
AJDGP01	

26896502	A Windows fatal error occurred
FRU List: AJDGP01	
2689	

26896530	A Virtual SCSI error was detected
FRU List: NTVSCSI	
NTOPSYS	

26896531	A Virtual SCSI error was detected
FRU List: NTVSCSI	
AS4NTDD	
NTOPSYS	
AJDGP01	

26896532	A Virtual SCSI error was detected
FRU List: NTOPSYS	
AJDGP01	
AS4NTDD	

26896533	A Virtual SCSI error was detected
FRU List: NTUSER	
NTOPSYS	
AS4NTDD	

26896534 A Virtual SCSI error was detected

FRU List:
AS4NTDD

AJDGP01

NTOPSYS

26896535 A Virtual SCSI error was detected

FRU List:
NTUSER

NTDEVDR

AJDGP01

26896538 A Virtual SCSI error was detected

FRU List:
NTVSCSI

NTOPSYS

26896539 A Virtual SCSI error was detected

FRU List:
NTVSCSI

AS4NTDD

NTOPSYS

AJDGP01

2689653A A Virtual SCSI error was detected

FRU List:
NTOPSYS

AJDGP01

AS4NTDD

2689653B A Virtual SCSI error was detected

FRU List:
NTUSER

NTOPSYS

AS4NTDD

2689653C A Virtual SCSI error was detected

FRU List:
AS4NTDD

AJDGP01

NTOPSYS

2689653D A Virtual SCSI error was detected

FRU List:
NTUSER

NTDEVDR

AJDGP01

2689653F A Virtual SCSI error was detected

FRU List:
NTDEVDR

NTOPSYS

AJDG301

26896540 A Virtual SCSI error was detected

FRU List:
NTVSCSI

AJDGP01

AJDG301

26896541 A permanent I/O processor failure occurred

FRU List:
2689

AJDGP01

26896542 Licensed Internal Code error detected.

FRU List:
AJDG301

AJDGP01

26896543 A Windows fatal error occurred

FRU List:
NTOPSYS

NTVSCSI

26896544 A Virtual SCSI error was detected

FRU List:
NTVSCSI

NTOPSYS

26896580 A Windows fatal error occurred

FRU List:
DISKIMG

2689

AJDGP01

26896590 A Netfinity Server error was detected

268965B0 A HostLAN error was detected

FRU List:
NTLANDD

NTOPSYS

268965B1 A HostLAN error was detected

FRU List:
NTLANDD

NTOPSYS

AJDG301

268965B2 A HostLAN error was detected

FRU List:
NTDEVDR

NTOPSYS

AJDG301

26898301 An I/O adapter failure occurred.

FRU List:
AJDGP01

2689

2689B3B1 A permanent I/O processor failure occurred

FRU List:
2689

2689B3B2 A permanent I/O processor failure occurred

FRU List:
2689

2689B3B3 A permanent I/O processor failure occurred

FRU List:
2689

2689B3B4 A permanent I/O processor failure occurred

FRU List:
2689

2689B3B5 A permanent I/O processor failure occurred

FRU List:
2689

2689B3B6 A permanent I/O processor failure occurred

FRU List:
2689

2689B3B7 A permanent I/O processor failure occurred

FRU List:
2689

2689B3B8 An I/O adapter failure occurred.

FRU List:
2689

2689B3B9 A permanent I/O processor failure occurred

FRU List:
2689

2689B3E0 I/O processor detected a fault condition

FRU List:
2689

2689B3E1 An I/O adapter failure occurred.

FRU List:
2689

2689B4B0 I/O adapter hardware error detected

FRU List:
2689

2689B4B1 A Netfinity Server error was detected

FRU List:
NETSERV

AJDGP01

2689B4B9 An I/O adapter failure occurred.

FRU List:
2689

2689B4BC A Netfinity Server error was detected

FRU List:
NETSERV

2689B4BF A Netfinity Server error was detected

FRU List:
NSCABLE

2689B904 A permanent I/O processor failure occurred

FRU List:

AJDGP01

2689

2689B935 Incompatible hardware detected.

FRU List:
AJDGP01

2689

2689B960 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

2689

2689BE00 An I/O adapter failure occurred.

FRU List:
AJDGP01

2689

(2724, 2744) Reference codes

1. Look at characters 1 through 8 of the top 16 character line of function 11 (8 rightmost characters of word 1). These 8 characters are the reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCbba). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address.

2724B904 I/O adapter Licensed Internal Code failed.

FRU List:
AJDGP01

FI00719

2724B920 I/O adapter Licensed Internal Code failed.

FRU List:
AJDGP01

FI00718

FI00719

2724B921 I/O adapter hardware error detected

FRU List:
FI00719

FI00718

AJDGP01

MA_BRDG

2724B934 Incompatible hardware detected.

FRU List:
FI00719

FI00718

2744B904 I/O adapter Licensed Internal Code failed.

FRU List:
AJDGP01

FI00719

2744B920 I/O adapter Licensed Internal Code failed.

FRU List:
AJDGP01

FI00718

AJDGP01

FI00719

MA_BRDG

2744B921 I/O adapter hardware error detected

2744B934 Incompatible hardware detected.**FRU List:**
FI00719**FRU List:**
FI00719

FI00718

FI00718

(2742, 2793, 2805) Reference codes

(2742, 2793, 2805) Reference codes

2742B940 I/O adapter hardware error detected

2793B941 One of the ports on the IOA has failed.**FRU List:**
FI00719**FRU List:**
FI00719

AJDGP01

AJDGP01

MA_BRDG

2742B941 One of the ports on the IOA has failed.

FRU List:
FI00719**FRU List:**
FI00719

AJDGP01

AJDGP01

MA_BRDG

2793B940 I/O adapter hardware error detected

2805B941 One of the ports on the IOA has failed.**FRU List:**
FI00719**FRU List:**
FI00719

AJDGP01

AJDGP01

MA_BRDG

(2743, 2760) Reference codes

(2743, 2760) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address.

2743B950 Licensed Internal Code error

2743B951 I/O adapter hardware error detected**FRU List:**
AJDGP01**FRU List:**
FI00719

FI00718

FI00718

FI00719

AJDGP01

MA_BRDG

2760B950	Licensed Internal Code error	FRU List: FI00719
FRU List: AJDGP01		FI00718
FI00718		AJDGP01
FI00719		MA_BRDG
2760B951	I/O adapter hardware error detected	

(2745) Reference Codes

(2745) Reference Codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address.

2745B904	I/O adapter Licensed Internal Code failed.	MA_BRDG
FRU List: AJDGP01		2745B941 One half of I/O adapter failed.
FI00719		FRU List: FI00719
		FI00718
2745B934	Incompatible hardware detected.	AJDGP01
FRU List: FI00719		2745B942 One half of I/O adapter failed.
FI00718		FRU List: FI00719
2745B940	I/O adapter hardware error detected	FI00718
FRU List: FI00719		AJDGP01
FI00718		
AJDGP01		

(2746) Twinaxial – workstation adapter reference codes

(2746) Twinaxial – workstation adapter reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address.

2746B904	I/O adapter Licensed Internal Code failed.	FRU List: AJDGP01

FI00719

2746B934 Incompatible hardware detected.**FRU List:**
FI00719

FI00718

2746B940 I/O adapter hardware error detected**FRU List:**
FI00719

FI00718

AJDGP01

MA_BRDG

2746B941 One half of I/O adapter failed.**FRU List:**
FI00719

FI00718

AJDGP01

2746B942 One half of I/O adapter failed.**FRU List:**
FI00719

FI00718

AJDGP01

(2748, 2757, 2763, 2778, 2780, 2782) Reference codes

(2748, 2757, 2763, 2778, 2780, 2782) Reference codes

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1.

27481310 I/O processor resource not available**Servicer Response:**

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

27483006 System bus error**FRU List:**
IOP

ANYBUS

STORIOA

27483021 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27483020 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27483022 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27483023 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27483100 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

DEVBPLN

27483101 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

DEVBPLN

27483102 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

DEVBPLN

27483103 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

DEVBPLN

27483120 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27483121 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27483122 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27483123 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27483140 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27483141 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27483142 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

27483143 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27483150 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

27483151 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

27483400 **I/O processor card detected device error**

FRU List:

FI02112

STORIOA

FI01106

DEVTERM

FI01140

27483401 **Device backplane problem**

FRU List:

DEVBPLN

27483501 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

27483600 **System log entry only, no service action required**

27483601 **System log entry only, no service action required**

27488008 **A permanent cache battery pack failure occurred**

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACHBAT

STORIOA

27488009 **Impending cache battery pack failure**

FRU List:

CACHBAT

27488012 **Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.**

FRU List:

SVCDOS

27488100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27488130 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

27488131 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

27488132 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

27488133 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

27488140 **IOA detected recoverable device bus error**

Service Response:

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

27488141 **IOA detected recoverable device error**

Service Response:

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

27488145 **A recoverable I/O processor error occurred.**

FRU List:
STORIOA

27488146 **Disk device detected recoverable error**

FRU List:
FI01105

27488150 **A permanent I/O processor failure occurred**

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

27488151 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

STORIOA

27488155 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

27488156 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

27488157 **I/O adapter card error**

Service Response:

Display the Service Action Log entry for this SRC. If the FRU List indicates I/O adapter, then replace the I/O adapter. If the FRU List indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to

re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

- If disk units are not attached, perform the **VRYCFG RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

27488200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27489000 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27489001 **I/O processor card detected device configuration error**

Service Response:
Perform IOPIP33.

FRU List:
SVCDOCS

27489002 **I/O processor card detected device error**

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27489008 **I/O card does not support functions expected by devices**

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

27489009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

27489010 **Cache data associated with attached devices cannot be found. Perform IOPIP31.**

FRU List:
SVCDOCS

27489011 **Cache data belongs to devices other than those attached**

Service Response:
Perform IOPIP32.

FRU List:
SVCDOCS

27489014 **Mode jumper overridden due to cache data in conflicting mode See JOVERRIDE.**

FRU List:
SVCDOCS

27489015 **Mode jumper missing**

Service Response:
See Mode jumper is missing in Storage I/O card modes and jumpers.

FRU List:
SVCDOCS

27489020 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27489021 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27489022 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:

SVCDOCS

27489023 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27489024 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27489025 **Disk unit is not supported at its physical location.**

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

27489026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27489027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

27489028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

27489029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

2748902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

27489030 **Array no longer protected due to missing or failed disk unit. Perform IOPIP21.**

FRU List:
SVCDOCS

27489031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27489040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27489041 **Background array parity check detected and corrected errors. Call your next level of support to report the problem.**

FRU List:
AJDGP01

27489050 **Required cache data cannot be located for a disk unit.**

Service Response:
Perform IOPIP30.

FRU List:
SVCDOCS

27489051 **IOP cache data exists for a missing or failed device.**

Service Response:
If all configured units are missing, a 9054 reference code may appear in the product activity log. If so,

perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

27489052 **Cache data exists for device that has been modified.**

Servicer Response:
Contact your next level of support.

FRU List:
SVCDOCS

27489053 **IOP resources not available due to previous problems.**

Servicer Response:
Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27489054 **IOP resources not available due to previous problems.**

Servicer Response:
Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27489071 **Link from IOA to auxiliary cache IOA went operational**

Servicer Response:
No service action required.

27489072 **Link from IOA to auxiliary cache IOA went non-operational**

Servicer Response:
No service action required.

27489073 **Incompatible or non-operational auxiliary cache IOA attached. Perform IOPIP40.**

FRU List:
SVCDOCS

27489081 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27489082 **I/O processor card detected device error**

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27489090 **Disk unit has been modified after the last known status.**

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27489091 **Incorrect hardware configuration change has been detected.**

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27489092 **Disk unit requires initialization before use.**

Servicer Response:
Perform IOPIP26.

FRU List:
SVCDOCS

27489093 Read cache device not in correct format

Servicer Response:
Contact your next level of support.

FRU List:
SVCDOCS

2748B934 Incompatible hardware detected.

FRU List:
STORIOA

2748FF3D I/O adapter detected a recoverable error

FRU List:
STORIOA

ANYBRDG

2748FF6D I/O processor detected a recoverable system bus error

FRU List:
IOP

ANYBUS

27571310 I/O processor resource not available

Servicer Response:
The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

27573006 System bus error

FRU List:
IOP

ANYBUS

STORIOA

27573020 I/O processor detected a SCSI bus configuration error

Servicer Response:
Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27573021 I/O processor detected a SCSI bus configuration error

Servicer Response:
Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27573022 I/O processor detected a SCSI bus configuration error

Servicer Response:
Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17>. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27573023 I/O processor detected a SCSI bus configuration error

Servicer Response:
Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27573100 I/O processor card detected interface error

Servicer Response:
Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

27573101 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27573102 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27573103 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27573120 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27573121 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27573122 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27573123 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27573140 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27573141 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27573142 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

27573143 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27573150 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOCS

27573151 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

27573400 **I/O processor card detected device error**

FRU List:
FI02112

STORIOA

FI01106

DEVTERM

FI01140

27573401 **Device backplane problem**

FRU List:
DEVBPLN

27573501 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27573600 **System log entry only, no service action required**

27573601 **System log entry only, no service action required**

27578008 **A permanent cache battery pack failure occurred**

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

27578009 **Impending cache battery pack failure**

FRU List:
CACHBAT

27578012 **Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.**

FRU List:
SVCDOCS

27578100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27578130 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

27578131 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

27578132 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

27578133 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

27578140 IOA detected recoverable device bus error

Servicer Response:

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

27578141 IOA detected recoverable device error

Servicer Response:

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

27578145 A recoverable I/O processor error occurred.

FRU List:
STORIOA

27578146 Disk device detected recoverable error

FRU List:
FI01105

27578150 A permanent I/O processor failure occurred

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

27578151 I/O processor Licensed Internal Code error

FRU List:

AJDGP01

STORIOA

27578155 A permanent I/O processor failure occurred

FRU List:

AJDGP01

STORIOA

27578156 A permanent I/O processor failure occurred

FRU List:

AJDGP01

STORIOA

27578157 I/O adapter card error

Servicer Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the **VRYCFG RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:

SVCDOCS

27578200 I/O processor Licensed Internal Code error

FRU List:

AJDGP01

IOP

27579000 I/O processor card detected device error

FRU List:

FI01105

STORIOA

27579001 I/O processor card detected device configuration error

Service Response:
Perform IOPIP33.

FRU List:
SVCDOCS

27579002 I/O processor card detected device error

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27579008 I/O card does not support functions expected by devices

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

27579009 Call your next level of support for assistance

FRU List:
SVCDOCS

27579010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOCS

27579011 Cache data belongs to devices other than those attached

Service Response:
Perform IOPIP32.

FRU List:
SVCDOCS

27579014 Mode jumper overridden due to cache data in conflicting mode See JOVERRIDE.

FRU List:
SVCDOCS

27579015 Mode jumper missing

Service Response:
See Mode jumper is missing in Storage I/O card modes and jumpers.

FRU List:
SVCDOCS

27579020 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27579021 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27579022 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27579023 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27579024 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27579025 Disk unit is not supported at its physical location.

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

27579026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27579027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

27579028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

27579029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

2757902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

27579030 **Array no longer protected due to missing or failed disk unit. Perform IOPIP21.**

FRU List:
SVCDOCS

27579031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27579040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27579041 **Background array parity check detected and corrected errors. Call your next level of support to report the problem.**

FRU List:
AJDGP01

27579050 **Required cache data cannot be located for a disk unit.**

Service Response:
Perform IOPIP30.

FRU List:
SVCDOCS

27579051 **IOP cache data exists for a missing or failed device.**

Service Response:
If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

27579052 **Cache data exists for device that has been modified.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

27579053 **IOP resources not available due to previous problems.**

Service Response:
Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27579054 **IOP resources not available due to previous problems.**

Service Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27579071 **Link from IOA to auxiliary cache IOA went operational**

Service Response:

No service action required.

27579072 **Link from IOA to auxiliary cache IOA went non-operational**

Service Response:

No service action required.

27579073 **Incompatible or non-operational auxiliary cache IOA attached. Perform IOPIP40.**

FRU List:
SVCDOCS

27579081 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27579082 **I/O processor card detected device error**

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27579090 **Disk unit has been modified after the last known status.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27579091 **Incorrect hardware configuration change has been detected.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27579092 **Disk unit requires initialization before use.**

Service Response:

Perform IOPIP26.

FRU List:
SVCDOCS

27579093 **Read cache device not in correct format**

Service Response:

Contact your next level of support.

FRU List:
SVCDOCS

2757B934 **Incompatible hardware detected.**

FRU List:
STORIOA

2757FF3D **I/O adapter detected recoverable error**

FRU List:
STORIOA

ANYBRDG

2757FF6D **I/O processor detected a recoverable system bus error**

FRU List:
IOP

ANYBUS

27631310 I/O processor resource not available

Servicer Response:

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

27633006 System bus error

FRU List:

IOP

ANYBUS

STORIOA

27633020 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27633021 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27633022 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27633023 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27633100 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27633101 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27633102 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27633103 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27633120 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

27633121 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

27633122 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

27633123 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

27633140 I/O Processor detected that the bus is now operational**Service Response:**

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27633141 I/O Processor detected that the bus is now operational**Service Response:**

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27633142 I/O Processor detected that the bus is now operational**Service Response:**

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

27633143 I/O Processor detected that the bus is now operational**Service Response:**

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27633150 I/O processor detected a SCSI bus configuration error**Service Response:**

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

27633151 I/O processor detected a SCSI bus configuration error**Service Response:**

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

27633400 I/O processor card detected device error**FRU List:**

FI02112

STORIOA

FI01106

DEVTERM

FI01140

27633401 Device backplane problem**FRU List:**
DEVBPLN

27633501 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

IOP

27633600 System log entry only, no service action required

27633601 System log entry only, no service action required

27638008 A permanent cache battery pack failure occurred**Service Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

27638009 Impending cache battery pack failure**FRU List:**
CACHBAT

27638012 Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.**FRU List:**
SVCDOCS

27638100 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

IOP

27638130 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

27638131 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

27638132 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

27638133 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

27638140 IOA detected recoverable device bus error**Service Response:**

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

27638141 IOA detected recoverable device error**Service Response:**

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

27638145 A recoverable I/O processor error occurred.**FRU List:**
STORIOA

27638146 Disk device detected recoverable error

FRU List:
FI01105

27638150 A permanent I/O processor failure occurred**Service Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

27638151 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

STORIOA

27638155 A permanent I/O processor failure occurred

FRU List:
AJDGP01

STORIOA

27638156 A permanent I/O processor failure occurred

FRU List:
AJDGP01

STORIOA

27638157 I/O adapter card error**Service Response:**

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to

re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the **VRYCFG RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

27638200 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

27639000 I/O processor card detected device error

FRU List:
FI01105

STORIOA

27639001 I/O processor card detected device configuration error

Service Response:
Perform IOPIP33.

FRU List:
SVCDOCS

27639002 I/O processor card detected device error

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27639008 I/O card does not support functions expected by devices

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

27639009 Call your next level of support for assistance

FRU List:
SVCDOS

27639010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOS

27639011 Cache data belongs to devices other than those attached

Servicer Response:
Perform IOPIP32.

FRU List:
SVCDOS

27639014 Mode jumper overridden due to cache data in conflicting mode See JOVERRIDE.

FRU List:
SVCDOS

27639015 Mode jumper missing

Servicer Response:
See Mode jumper is missing in Storage I/O card modes and jumpers.

FRU List:
SVCDOS

27639020 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOS

27639021 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOS

27639022 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:

SVCDOS

27639023 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOS

27639024 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOS

27639025 Disk unit is not supported at its physical location.

Servicer Response:
Perform IOPIP21.

FRU List:
SVCDOS

27639026 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOS

27639027 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP34.

FRU List:
SVCDOS

27639028 Incorrect hardware configuration change has been detected.

Servicer Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOS

27639029 Incorrect hardware configuration change has been detected.

Service Response:

Contact your next level of support.

FRU List:

SVCDOCS

2763902F Array addendum Product Activity Log entry

Service Response:

This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

27639030 Array no longer protected due to missing or failed disk unit. Perform IOPIP21.

FRU List:

SVCDOCS

27639031 Array protection temporarily suspended

Service Response:

No action required. Protection will be automatically restarted.

27639040 Array protection temporarily suspended

Service Response:

No action required. Protection will be automatically restarted.

27639041 Background array parity check detected and corrected errors. Call your next level of support to report the problem.

FRU List:

AJDGP01

27639050 Required cache data cannot be located for a disk unit.

Service Response:

Perform IOPIP30.

FRU List:

SVCDOCS

27639051 IOP cache data exists for a missing or failed device.

Service Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform IOPIP27.

FRU List:

SVCDOCS

27639052 Cache data exists for device that has been modified.

Service Response:

Contact your next level of support.

FRU List:

SVCDOCS

27639053 IOP resources not available due to previous problems.

Service Response:

Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOCS

27639054 IOP resources not available due to previous problems.

Service Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOCS

27639071 Link from IOA to auxiliary cache IOA went operational

Service Response:

No service action required.

27639072 Link from IOA to auxiliary cache IOA went non-operational

Service Response:

No service action required.

27639073 **Incompatible or non-operational auxiliary cache IOA attached. Perform IOPIP40.**

FRU List:
SVCDOCS

27639081 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27639082 **I/O processor card detected device error**

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27639090 **Disk unit has been modified after the last known status.**

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27639091 **Incorrect hardware configuration change has been detected.**

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27639092 **Disk unit requires initialization before use.**

Servicer Response:
Perform IOPIP26.

FRU List:
SVCDOCS

27639093 **Read cache device not in correct format**

Servicer Response:
Contact your next level of support.

FRU List:
SVCDOCS

2763B934 **Incompatible hardware detected.**

FRU List:
STORIOA

2763FF3D **I/O adapter detected recoverable error**

FRU List:
STORIOA

ANYBRDG

2763FF6D **I/O processor detected a recoverable system bus error**

FRU List:
IOP

ANYBUS

27781310 **I/O processor resource not available**

Servicer Response:
The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

27783006 **System bus error**

FRU List:
IOP

ANYBUS

STORIOA

27783020 **I/O processor detected a SCSI bus configuration error**

Servicer Response:
Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27783021 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27783022 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27783023 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27783100 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

27783101 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

27783102 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

27783103 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

27783120 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27783121 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

27783122 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

27783123 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

27783140 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27783141 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27783142 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

27783143 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27783150 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

27783151 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

27783400 I/O processor card detected device error

FRU List:

FI02112

STORIOA

FI01106

DEVTERM

FI01140

27783401 Device backplane problem

FRU List:

DEVBPLN

27783501 I/O processor Licensed Internal Code error.

FRU List:

AJDGP01

IOP

27783600 **System log entry only, no service action required**

27783601 **System log entry only, no service action required**

27788008 **A permanent cache battery pack failure occurred**

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

27788009 **Impending cache battery pack failure**

FRU List:
CACHBAT

27788012 **Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.**

FRU List:
SVCDOCS

27788100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27788130 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

27788131 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

27788132 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

27788133 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

27788140 **IOA detected recoverable device bus error**

Service Response:

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

27788141 **IOA detected recoverable device error**

Service Response:

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

27788145 **A recoverable I/O processor error occurred.**

FRU List:
STORIOA

27788146 **Disk device detected recoverable error**

FRU List:
FI01105

27788150 **A permanent I/O processor failure occurred**

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

27788151 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

STORIOA

27788155 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

27788156 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

27788157 **I/O adapter card error**

Service Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the **VRYPFCG RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

27788200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27789000 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27789001 **I/O processor card detected device configuration error**

Service Response:
Perform IOPIP33.

FRU List:
SVCDOCS

27789002 **I/O processor card detected device error**

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27789008 **I/O card does not support functions expected by devices**

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

27789009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

27789010 **Cache data associated with attached devices cannot be found. Perform IOPIP31.**

FRU List:
SVCDOCS

27789011 **Cache data belongs to devices other than those attached**

Service Response:
Perform IOPIP32.

FRU List:
SVCDOCS

27789014 **Mode jumper overridden due to cache data in conflicting mode See JOVERRIDE.**

FRU List:
SVCDOCS

27789015 Mode jumper missing**Service Response:**

See *Mode jumper is missing in Storage I/O card modes and jumpers.*

FRU List:

SVCDOS

27789020 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP20.

FRU List:

SVCDOS

27789021 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP20.

FRU List:

SVCDOS

27789022 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP22.

FRU List:

SVCDOS

27789023 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP22.

FRU List:

SVCDOS

27789024 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP22.

FRU List:

SVCDOS

27789025 Disk unit is not supported at its physical location.**Service Response:**

Perform IOPIP21.

FRU List:

SVCDOS

27789026 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP22.

FRU List:

SVCDOS

27789027 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP34.

FRU List:

SVCDOS

27789028 Incorrect hardware configuration change has been detected.**Service Response:**

Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:

SVCDOS

27789029 Incorrect hardware configuration change has been detected.**Service Response:**

Contact your next level of support.

FRU List:

SVCDOS

2778902F Array addendum Product Activity Log entry**Service Response:**

This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

27789030 Array no longer protected due to missing or failed disk unit. Perform IOPIP21.**FRU List:**

SVCDOS

27789031 Array protection temporarily suspended**Service Response:**

No action required. Protection will be automatically restarted.

27789040 Array protection temporarily suspended**Servicer Response:**

No action required. Protection will be automatically restarted.

27789041 Background array parity check detected and corrected errors. Call your next level of support to report the problem.**FRU List:**

AJDGP01

27789050 Required cache data cannot be located for a disk unit.**Servicer Response:**

Perform IOPIP30.

FRU List:

SVCDOS

27789051 IOP cache data exists for a missing or failed device.**Servicer Response:**

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform IOPIP27.

FRU List:

SVCDOS

27789052 Cache data exists for device that has been modified.**Servicer Response:**

Contact your next level of support.

FRU List:

SVCDOS

27789053 IOP resources not available due to previous problems.**Servicer Response:**

Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOS

27789054 IOP resources not available due to previous problems.**Servicer Response:**

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOS

27789071 Link from IOA to auxiliary cache IOA went operational**Servicer Response:**

No service action required.

27789072 Link from IOA to auxiliary cache IOA went non-operational**Servicer Response:**

No service action required.

27789073 Incompatible or non-operational auxiliary cache IOA attached. Perform IOPIP40.**FRU List:**

SVCDOS

27789081 I/O processor card detected device error**FRU List:**

FI01105

STORIOA

27789082 I/O processor card detected device error**Servicer Response:**

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

27789090 **Disk unit has been modified after the last known status.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27789091 **Incorrect hardware configuration change has been detected.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27789092 **Disk unit requires initialization before use.**

Service Response:

Perform IOPIP26.

FRU List:
SVCDOCS

27789093 **Read cache device not in correct format**

Service Response:

Contact your next level of support.

FRU List:
SVCDOCS

2778B934 **Incompatible hardware detected.**

FRU List:
STORIOA

2778FF3D **I/O adapter detected recoverable error**

FRU List:
STORIOA

ANYBRDG

2778FF6D **I/O processor detected a recoverable system bus error**

FRU List:
IOP

ANYBUS

27801310 **I/O processor resource not available**

Service Response:

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

27803006 **System bus error**

FRU List:
IOP

ANYBUS

STORIOA

27803020 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27803021 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27803022 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27803023 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27803100 I/O processor card detected interface error**Servicer Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

27803101 I/O processor card detected interface error**Servicer Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

27803102 I/O processor card detected interface error**Servicer Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

27803103 I/O processor card detected interface error**Servicer Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

27803120 I/O Processor detected that the bus is not operational**Servicer Response:**

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS**27803121 I/O Processor detected that the bus is not operational****Servicer Response:**

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS**27803122 I/O Processor detected that the bus is not operational****Servicer Response:**

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS**27803123 I/O Processor detected that the bus is not operational****Servicer Response:**

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27803140 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27803141 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27803142 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

27803143 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27803150 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOCS

27803151 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

27803400 **I/O processor card detected device error**

FRU List:
FI02112

STORIOA

FI01106

DEVTERM

FI01140

27803401 **Device backplane problem**

FRU List:
DEVBPLN

27803501 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27803600 **System log entry only, no service action required**

27803601 **System log entry only, no service action required**

27808008 **A permanent cache battery pack failure occurred**

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

27808009 **Impending cache battery pack failure**

FRU List:
CACHBAT

27808012 **Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.**

FRU List:
SVCDOCS

27808100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27808130 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

27808131 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

27808132 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

27808133 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

27808140 **IOA detected recoverable device bus error**

Servicer Response:

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

27808141 **IOA detected recoverable device error**

Servicer Response:

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

27808145 **A recoverable I/O processor error occurred.**

FRU List:
STORIOA

27808146 **Disk device detected recoverable error**

FRU List:
FI01105

27808150 **A permanent I/O processor failure occurred**

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

27808151 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

STORIOA

27808155 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

27808156 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

27808157 **I/O adapter card error**

Servicer Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to

re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

- If disk units are not attached, perform the **VRYCFG RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

27808200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27809000 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27809001 **I/O processor card detected device configuration error**

Servicer Response:
Perform IOPIP33.

FRU List:
SVCDOCS

27809002 **I/O processor card detected device error**

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27809008 **I/O card does not support functions expected by devices**

Servicer Response:
Perform IOPIP25.

FRU List:
SVCDOCS

27809009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

27809010 **Cache data associated with attached devices cannot be found. Perform IOPIP31.**

FRU List:
SVCDOCS

27809011 **Cache data belongs to devices other than those attached**

Servicer Response:
Perform IOPIP32.

FRU List:
SVCDOCS

27809014 **Mode jumper overridden due to cache data in conflicting mode See JOVERRIDE.**

FRU List:
SVCDOCS

27809015 **Mode jumper missing**

Servicer Response:
See Mode jumper is missing in Storage I/O card modes and jumpers.

FRU List:
SVCDOCS

27809020 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27809021 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27809022 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:

SVCDOS

27809023 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOS

27809024 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOS

27809025 **Disk unit is not supported at its physical location.**

Service Response:
Perform IOPIP21.

FRU List:
SVCDOS

27809026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOS

27809027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOS

27809028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOS

27809029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOS

2780902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

27809030 **Array no longer protected due to missing or failed disk unit.**

Service Response:
Perform isolation procedure IOPIP21.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOS

27809031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27809040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27809041 **Background array parity check detected and corrected errors.**

Service Response:
Call your next level of support to report the problem.

FRU List:
AJDGP01

27809050 **Required cache data cannot be located for a disk unit.**

Service Response:
Perform IOPIP30.

FRU List:
SVCDOS

27809051 **IOP cache data exists for a missing or failed device.**

Service Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

27809052 **Cache data exists for device that has been modified.**

Service Response:

Contact your next level of support.

FRU List:
SVCDOCS

27809053 **IOP resources not available due to previous problems.**

Service Response:

Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27809054 **IOP resources not available due to previous problems.**

Service Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27809071 **Link from IOA to auxiliary cache IOA went operational**

Service Response:

No service action required.

27809072 **Link from IOA to auxiliary cache IOA went non-operational**

Service Response:

No service action required.

27809073 **Incompatible or non-operational auxiliary cache IOA attached.**

Service Response:

Perform isolation procedure IOPIP40.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

27809081 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27809082 **I/O processor card detected device error**

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27809090 **Disk unit has been modified after the last known status.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27809091 **Incorrect hardware configuration change has been detected.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27809092 **Disk unit requires initialization before use.**

Servicer Response:
Perform IOPIP26.

FRU List:
SVCDOCS

27809093 **Read cache device not in correct format**

Servicer Response:
Contact your next level of support.

FRU List:
SVCDOCS

2780B934 **Incompatible hardware detected.**

FRU List:
STORIOA

2780FF3D **I/O adapter detected recoverable error**

FRU List:
STORIOA

ANYBRDG

2780FF6D **I/O processor detected a recoverable system bus error**

FRU List:
IOP

ANYBUS

27821310 **I/O processor resource not available**

Servicer Response:
The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

27823006 **System bus error**

FRU List:
IOP

ANYBUS

STORIOA

27823020 **I/O processor detected a SCSI bus configuration error**

Servicer Response:
Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27823021 **I/O processor detected a SCSI bus configuration error**

Servicer Response:
Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27823022 **I/O processor detected a SCSI bus configuration error**

Servicer Response:
Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27823023 **I/O processor detected a SCSI bus configuration error**

Servicer Response:
Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27823100 **I/O processor card detected interface error**

Servicer Response:
Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27823101 I/O processor card detected interface error**Servicer Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27823102 I/O processor card detected interface error**Servicer Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27823103 I/O processor card detected interface error**Servicer Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27823120 I/O Processor detected that the bus is not operational**Servicer Response:**

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27823121 I/O Processor detected that the bus is not operational**Servicer Response:**

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27823122 I/O Processor detected that the bus is not operational**Servicer Response:**

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27823123 I/O Processor detected that the bus is not operational**Servicer Response:**

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27823140 I/O Processor detected that the bus is now operational**Servicer Response:**

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27823141 I/O Processor detected that the bus is now operational**Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27823142 I/O Processor detected that the bus is now operational**Servicer Response:**

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

27823143 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27823150 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOCS

27823151 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

27823400 **I/O processor card detected device error**

FRU List:
FI02112

STORIOA

FI01106

DEVTERM

FI01140

27823401 **Device backplane problem**

FRU List:
DEVBPLN

27823501 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27823600 **System log entry only, no service action required**

27823601 **System log entry only, no service action required**

27828008 **A permanent cache battery pack failure occurred**

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

27828009 **Impending cache battery pack failure**

FRU List:
CACHBAT

27828012 **Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.**

FRU List:
SVCDOCS

27828100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27828130 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

27828131 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

27828132 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

27828133 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

27828140 IOA detected recoverable device bus error

Servicer Response:

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

27828141 IOA detected recoverable device error

Servicer Response:

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

27828145 A recoverable I/O processor error occurred.

FRU List:
STORIOA

27828146 Disk device detected recoverable error

FRU List:
FI01105

27828150 A permanent I/O processor failure occurred

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

27828151 I/O processor Licensed Internal Code error

FRU List:

AJDGP01

STORIOA

27828155 A permanent I/O processor failure occurred

FRU List:

AJDGP01

STORIOA

27828156 A permanent I/O processor failure occurred

FRU List:

AJDGP01

STORIOA

27828157 I/O adapter card error

Servicer Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the **VRYCFG RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:

SVCDOCS

27828200 I/O processor Licensed Internal Code error

FRU List:

AJDGP01

IOP

27829000 I/O processor card detected device error

FRU List:

FI01105

STORIOA

27829001 I/O processor card detected device configuration error

Servicer Response:
Perform IOPIP33.

FRU List:
SVCDOCS

27829002 I/O processor card detected device error

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27829008 I/O card does not support functions expected by devices

Servicer Response:
Perform IOPIP25.

FRU List:
SVCDOCS

27829009 Call your next level of support for assistance

FRU List:
SVCDOCS

27829010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOCS

27829011 Cache data belongs to devices other than those attached

Servicer Response:
Perform IOPIP32.

FRU List:
SVCDOCS

27829014 Mode jumper overridden due to cache data in conflicting mode. See JOVERRIDE.

FRU List:
SVCDOCS

27829015 Mode jumper missing

Servicer Response:

See *Mode jumper is missing in Storage I/O card modes and jumpers.*

FRU List:
SVCDOCS

27829020 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27829021 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27829022 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27829023 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27829024 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27829025 Disk unit is not supported at its physical location.

Servicer Response:
Perform IOPIP21.

FRU List:
SVCDOCS

27829026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27829027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

27829028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

27829029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

2782902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

27829030 **Array no longer protected due to missing or failed disk unit.**

Service Response:
Perform isolation procedure IOPIP21.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

27829031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27829040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27829041 **Background array parity check detected and corrected errors.**

Service Response:
Call your next level of support to report the problem.

FRU List:
AJDGP01

27829050 **Required cache data cannot be located for a disk unit.**

Service Response:
Perform IOPIP30.

FRU List:
SVCDOCS

27829051 **IOP cache data exists for a missing or failed device.**

Service Response:
If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

27829052 **Cache data exists for device that has been modified.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

27829053 **IOP resources not available due to previous problems.**

Service Response:
Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27829054 IOP resources not available due to previous problems.

Service Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27829071 Link from IOA to auxiliary cache IOA went operational

Service Response:

No service action required.

27829072 Link from IOA to auxiliary cache IOA went non-operational

Service Response:

No service action required.

27829073 Incompatible or non-operational auxiliary cache IOA attached.

Service Response::

Perform isolation procedure IOPIP40.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

27829081 I/O processor card detected device error

FRU List:
FI01105

STORIOA

27829082 I/O processor card detected device error

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27829090 Disk unit has been modified after the last known status.

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27829091 Incorrect hardware configuration change has been detected.

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27829092 Disk unit requires initialization before use.

Service Response:

Perform IOPIP26.

FRU List:
SVCDOCS

27829093 Read cache device not in correct format

Service Response:

Contact your next level of support.

FRU List:
SVCDOCS

2782B934 Incompatible hardware detected.

FRU List:
STORIOA

2782FF3D I/O adapter detected recoverable error

FRU List:
STORIOA

ANYBRDG

2782FF6D **I/O processor detected a recoverable system bus error**

FRU List:
IOP

ANYBUS

57031310 **I/O processor resource not available**

Service Response:

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

57033006 **System bus error**

FRU List:
IOP

ANYBUS

STORIOA

57033020 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57033021 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57033022 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57033023 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57033100 **I/O processor card detected interface error**

Service Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

57033101 **I/O processor card detected interface error**

Service Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

57033102 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57033103 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57033120 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

57033121 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

57033122 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

57033123 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

57033140 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

57033141 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

57033142 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

57033143 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

57033150 I/O processor detected a SCSI bus configuration error
Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

57033151 I/O processor detected a SCSI bus configuration error
Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

57033400 I/O processor card detected device error

FRU List:
FI02112

STORIOA

FI01106

DEVTERM

FI01140

57033401 Device backplane problem

FRU List:
DEVBPLN

57033501 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

57033600 System log entry only, no service action required

57033601 System log entry only, no service action required

57038008 A permanent cache battery pack failure occurred

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

57038009 Impending cache battery pack failure

FRU List:
CACHBAT

57038012 Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.

FRU List:
SVCDOCS

57038100 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

57038130 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

57038131 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

57038132 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

57038133 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

57038140 IOA detected recoverable device bus error

Service Response:

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

57038141 IOA detected recoverable device error

Service Response:

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

57038145 A recoverable I/O processor error occurred.

FRU List:
STORIOA

57038146 Disk device detected recoverable error

FRU List:
FI01105

57038150 A permanent I/O processor failure occurred

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

57038151 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

STORIOA

57038155 A permanent I/O processor failure occurred

FRU List:
AJDGP01

STORIOA

57038156 A permanent I/O processor failure occurred

FRU List:
AJDGP01

STORIOA

57038157 I/O adapter card error

Service Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the **VRYCFG RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

57038200 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

57039000 I/O processor card detected device error

FRU List:
FI01105

STORIOA

57039001 I/O processor card detected device configuration error

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

57039002 I/O processor card detected device error

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

57039008 I/O card does not support functions expected by devices

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

57039009 Call your next level of support for assistance

FRU List:
SVCDOCS

57039010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOCS

57039011 Cache data belongs to devices other than those attached

Service Response:
Perform IOPIP32.

FRU List:
SVCDOCS

57039014 Mode jumper overridden due to cache data in conflicting mode See JOVERRIDE.

FRU List:
SVCDOCS

57039015 Mode jumper missing

Service Response:
See Mode jumper is missing in Storage I/O card modes and jumpers.

FRU List:
SVCDOCS

57039020 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

57039021 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:

SVCDOCS

57039022 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57039023 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57039024 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57039025 Disk unit is not supported at its physical location.

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

57039026 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57039027 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

57039028 Incorrect hardware configuration change has been detected.

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

57039029 Incorrect hardware configuration change has been detected.

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

5703902F Array addendum Product Activity Log entry

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

57039030 Array no longer protected due to missing or failed disk unit.

Service Response:
Perform isolation procedure IOPIP21.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

57039031 Array protection temporarily suspended

Service Response:
No action required. Protection will be automatically restarted.

57039040 Array protection temporarily suspended

Service Response:
No action required. Protection will be automatically restarted.

57039041 Background array parity check detected and corrected errors.

Service Response:
Call your next level of support to report the problem.

FRU List:
AJDGP01

57039050 Required cache data cannot be located for a disk unit.

Service Response:
Perform IOPIP30.

FRU List:

SVCDOCS

57039051 IOP cache data exists for a missing or failed device.

Service Response:
If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

57039052 Cache data exists for device that has been modified.

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

57039053 IOP resources not available due to previous problems.

Service Response:
Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

57039054 IOP resources not available due to previous problems.

Service Response:
Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

57039071 Link from IOA to auxiliary cache IOA went operational

Service Response:
No service action required.

57039072 Link from IOA to auxiliary cache IOA went non-operational

Service Response:
No service action required.

**57039073 Incompatible or non-operational
auxiliary cache IOA attached.**

Service Response:

Perform isolation procedure IOPIP40.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

57039081 I/O processor card detected device error

FRU List:
FI01105

STORIOA

57039082 I/O processor card detected device error

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

**57039090 Disk unit has been modified after the
last known status.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

**57039091 Incorrect hardware configuration change
has been detected.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

**57039092 Disk unit requires initialization before
use.**

Service Response:
Perform IOPIP26.

FRU List:
SVCDOCS

57039093 Read cache device not in correct format

Service Response:

Contact your next level of support.

FRU List:
SVCDOCS

5703B934 Incompatible hardware detected.

FRU List:
STORIOA

5703FF3D I/O adapter detected recoverable error

FRU List:
STORIOA

ANYBRDG

**5703FF6D I/O processor detected a recoverable
system bus error**

FRU List:
IOP

ANYBUS

57091310 I/O processor resource not available

Service Response:

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

57093006 System bus error

FRU List:
IOP

ANYBUS

STORIOA

**57093020 I/O processor detected a SCSI bus
configuration error**

Service Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57093021 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57093022 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57093023 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57093100 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57093101 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

57093102 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

57093103 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

57093120 I/O Processor detected that the bus is not operational

Servicer Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

57093121 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

57093122 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

57093123 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

57093140 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

57093141 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

57093142 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

57093143 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

57093150 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOCS

57093151 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

57093400 I/O processor card detected device error

FRU List:
FI02112

STORIOA

FI01106

DEVTERM

FI01140

57093401 Device backplane problem

FRU List:
DEVBPLN

57093501 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

57093600 **System log entry only, no service action required**

57093601 **System log entry only, no service action required**

57098008 **A permanent cache battery pack failure occurred**

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

57098009 **Impending cache battery pack failure**

FRU List:
CACHBAT

57098012 **Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.**

FRU List:
SVCDOCS

57098100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

57098130 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

57098131 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

57098132 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

57098133 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

57098140 **IOA detected recoverable device bus error**

Servicer Response:

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

57098141 **IOA detected recoverable device error**

Servicer Response:

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

57098145 **A recoverable I/O processor error occurred.**

FRU List:
STORIOA

57098146 **Disk device detected recoverable error**

FRU List:
FI01105

57098150 **A permanent I/O processor failure occurred**

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

57098151 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

STORIOA

57098155 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

57098156 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

57098157 **I/O adapter card error**

Service Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the **VRYPFC RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

57098200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

57099000 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

57099001 **I/O processor card detected device configuration error**

Service Response:
Perform IOPIP33.

FRU List:
SVCDOCS

57099002 **I/O processor card detected device error**

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

57099008 **I/O card does not support functions expected by devices**

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

57099009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

57099010 **Cache data associated with attached devices cannot be found. Perform IOPIP31.**

FRU List:
SVCDOCS

57099011 **Cache data belongs to devices other than those attached**

Service Response:
Perform IOPIP32.

FRU List:
SVCDOCS

57099014 **Mode jumper overridden due to cache data in conflicting mode. See JOVERRIDE.**

FRU List:
SVCDOCS

57099015 Mode jumper missing**Service Response:**

See *Mode jumper is missing in Storage I/O card modes and jumpers.*

FRU List:
SVCDOCS

57099020 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP20.

FRU List:
SVCDOCS

57099021 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP20.

FRU List:
SVCDOCS

57099022 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP22.

FRU List:
SVCDOCS

57099023 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP22.

FRU List:
SVCDOCS

57099024 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP21.

FRU List:
SVCDOCS

57099025 Disk unit is not supported at its physical location.**Service Response:**

Perform IOPIP21.

FRU List:
SVCDOCS

57099026 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP22.

FRU List:
SVCDOCS

57099027 Array not functional due to present hardware configuration.**Service Response:**

Perform IOPIP34.

FRU List:
SVCDOCS

57099028 Incorrect hardware configuration change has been detected.**Service Response:**

Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

57099029 Incorrect hardware configuration change has been detected.**Service Response:**

Contact your next level of support.

FRU List:
SVCDOCS

5709902F Array addendum Product Activity Log entry**Service Response:**

This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

57099030 Array no longer protected due to missing or failed disk unit.**Service Response:**

Perform isolation procedure IOPIP21.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

57099031 Array protection temporarily suspended**Service Response:**

No action required. Protection will be automatically restarted.

57099040 Array protection temporarily suspended**Service Response:**

No action required. Protection will be automatically restarted.

57099041 Background array parity check detected and corrected errors. Call your next level of support to report the problem.**Service Response:**

Call your next level of support to report the problem.

FRU List:

AJDGP01

57099050 Required cache data cannot be located for a disk unit.**Service Response:**

Perform IOPIP30.

FRU List:

SVCDOS

57099051 IOP cache data exists for a missing or failed device.**Service Response:**

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:

SVCDOS

57099052 Cache data exists for device that has been modified.**Service Response:**

Contact your next level of support.

FRU List:

SVCDOS

57099053 IOP resources not available due to previous problems.**Service Response:**

Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOS

57099054 IOP resources not available due to previous problems.**Service Response:**

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOS

57099071 Link from IOA to auxiliary cache IOA went operational**Service Response:**

No service action required.

57099072 Link from IOA to auxiliary cache IOA went non-operational**Service Response:**

No service action required.

57099073 Incompatible or non-operational auxiliary cache IOA attached.**Service Response:**

Perform isolation procedure IOPIP40.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:

SVCDOS

57099081 I/O processor card detected device error**FRU List:**

FI01105

STORIOA

57099082 I/O processor card detected device error**Service Response:**

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

57099090 **Disk unit has been modified after the last known status.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCDPCS

57099091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCDPCS

57099092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:

SVCDPCS

57099093 **Read cache device not in correct format**

Servicer Response:

Contact your next level of support.

FRU List:

SVCDPCS

5709B934 **Incompatible hardware detected.**

FRU List:

STORIOA

5709FF3D **I/O adapter detected recoverable error**

FRU List:

STORIOA

ANYBRDG

5709FF6D **I/O processor detected a recoverable system bus error**

FRU List:

IOP

ANYBUS

(2749, 2767, 2768, 2842, 2843, 2844, 284B) Reference codes

(2749, 2767, 2768, 2842, 2843, 2844, 284B) Reference codes

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1.

Note: The 673x is a read cache. Perform all actions required for 673x as a disk drive and logic card except where separate 673x cache instructions are provided.

27490A17 A permanent I/O processor failure occurred

FRU List:
IOP

MA_BRDG

AJDGP01

AJDG301

27490A22 I/O processor detected a storage transfer error

FRU List:
AJDGP01

AJDG301

IOP

MA_BRDG

2749102E Out of alternate sectors for disk storage

FRU List:
FI01105

27491306 I/O processor card or Licensed Internal Code error

Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
AJDGP01

IOP

FI01104

BACKPLN

27491307 I/O processor resource not available

FRU List:
AJDGP01

AJDG301

27491310 I/O processor resource not available

Service Response:

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

27491317 I/O processor card error

Service Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

27492200 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

27492201 Removable media error during IPL

FRU List:
USER

FI01105

27492202 Removable media error during IPL

FRU List:
FI00022

FI01105

27493000 A permanent I/O processor failure occurred

FRU List:
FI01101

IOP

MA_BRDG

27493001 **Not valid condition in I/O Processor
Licensed InternalCode**
Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:

IOP

AJDGP01

27493002 **Addressed device failed to respond to
selection**
Service Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

FI01141

FI01106

27493006 **System bus error**
FRU List:

IOP

ANYBUS

FI01101

27493020 **I/O processor detected a SCSI bus
configuration error**
Service Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27493021 **I/O processor detected a SCSI bus
configuration error**
Service Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27493022 **I/O processor detected a SCSI bus
configuration error**
Service Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27493023 **I/O processor detected a SCSI bus
configuration error**
Service Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27493080 **I/O processor Licensed Internal Code
error**
FRU List:

AJDGP01

27493081 **System log entry only, no service action
required.**

27493084 I/O processor card or Licensed Internal Code error
Servicer Response:

A microprocessor exception occurred on the I/O processor.

FRU List:

AJDGP01

IOP

FI01104

MA_BRDG

27493087 I/O processor resource not available
Servicer Response:

The LicensedInternal Code could not allocate resources on the I/O processor card.

FRU List:

AJDGP01

AJDG301

IOACNFG

FI01104

27493100 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27493101 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27493102 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27493103 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27493109 I/O processor timed out a device command
Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

27493110 I/O processor card detected interface error
Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

27493120 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27493121 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27493122 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27493123 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27493136 The removable media device is assigned elsewhere

FRU List:
USER

FI01105

27493140 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27493141 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27493142 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

27493143 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27493150 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOCS

27493151 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

27493200 A tape/CD or disk device reported a failure

FRU List:
FI01105

STORIOA

IOP

MEDIA

27493203 Disk media format bad**FRU List:**
FI01105

27493205 Disk sector read error**Servicer Response:**

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

27493215 Disk sector read error**Servicer Response:**

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

27493250 Disk unit requires initialization before use.**Servicer Response:**

Perform a D-IPL and work on errors found in the log.

FRU List:
USER

27493300 Storage unit detected a media problem**Servicer Response:**

Perform IOPIP01.

FRU List:
MEDIA

FI00121

FI01141

27493400 I/O processor card detected device error**Servicer Response:****Note:** If external devices are attached check EXTSCSI and DEVTERM first.**FRU List:**
FI02112

STORIOA

FI01106

DEVTERM

FI01140

27493401 Device backplane problem**FRU List:**
DEVBPLN

27493501 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

IOP

27493600 System log entry only, no service action required.

27493601 System log entry only, no service action required.

27496070 A permanent I/O processor failure occurred**FRU List:**
IOP

27496071 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

27496072 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

IOP

27496073 IPL device not ready**FRU List:**
MEDIA

FI01105

USER

27496075 I/O processor resource not available**FRU List:**
AJDGP01

27496076 I/O processor card detected media error**FRU List:**
MEDIA

AJDGP01

FI01105

27496081 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

IOP

27496082 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

IOP

27496083 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

IOP

27496085 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

IOP

MA_BRDG

27496200 **A permanent IOA hardware error occurred**
FRU List:
 FCIOA

OPT_CLN

27496201 **IOA LID is not valid**
FRU List:
 AJDGP01

27496602 **An I/O processor Licensed Internal Code error occurred.**
FRU List:
 AJDGP01

27498000 **A permanent IOP or cache adaptor card failure occurred.**
Servicer Response:
Note: DO NOT replace both FRUs at the same time.
 Exchange the FRUs one at a time in the order shown.

FRU List:
 STORIOA

CACHE

27498002 **A permanent cache adaptor card failure occurred.**
Servicer Response:
Note: DO NOT replace both FRUs at the same time.
 Exchange the FRUs one at a time in the order shown.

FRU List:
 CACHE

STORIOA

27498004 **Voltage drop detected on I/O processor 5 volt powersupply.**
FRU List:
 FI01141

STORIOA

27498005 **A recoverable IOP or cache adaptor card error occurred.**
Servicer Response:
Note: DO NOT replace both FRUs at the same time.
 Exchange the FRUs one at a time in the order shown.

FRU List:
 STORIOA

CACHE

27498007 **A recoverable cache adaptor card error occurred.**
Servicer Response:
Note: DO NOT replace both FRUs at the same time.
 Exchange the FRUs one at a time in the order shown.

FRU List:
 CACHE

STORIOA

27498010 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:

CACHE

STORIOA

27498011 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:

CACHE

STORIOA

27498100 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

27498130 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

27498131 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

27498132 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

27498133 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

27498140 **IOA detected recoverable device bus error**

Service Response:

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

27498141 **IOA detected recoverable device error**

Service Response:

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

27498145 **A recoverable I/O processor error occurred.**

FRU List:

STORIOA

27498146 **Disk device detected recoverable error**

FRU List:

FI01105

27498150 **A permanent I/O processor failure occurred**

FRU List:

STORIOA

ANYBRDG

27498151 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

STORIOA

27498155 **A permanent I/O processor failure occurred**

FRU List:

AJDGP01

STORIOA

27498156 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

27498157 **I/O adapter card error**

Service Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

27498200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27498300 **I/O processor card or Licensed Internal Code error**

Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
STORIOA

IOP

AJDGP01

27498301 **Not valid condition in I/O Processor Licensed InternalCode**

Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
FI01101

AJDGP01

IOP

27498400 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

27499000 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27499001 **I/O processor card detected device configuration error**

Service Response:
Perform IOPIP33.

FRU List:
SVCDOCS

27499002 **I/O processor card detected device error**

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27499008 **I/O card does not support functions expected by devices**

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

27499009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

27499010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOCS

27499011 Cache data belongs to devices other than those attached

Servicer Response:
Perform IOPIP32.

FRU List:
SVCDOCS

27499012 IOP requires a cache adaptor card but cannot find it.

Servicer Response:
The cache adapter card is missing or broken. Perform IOPIP29.

FRU List:
CACHE

27499013 The IOP and attached cache adaptor card are not compatible.

Servicer Response:
Perform IOPIP19.

FRU List:
SVCDOCS

27499020 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27499021 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27499022 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27499023 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27499024 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27499025 Disk unit is not supported at its physical location.

Servicer Response:
Perform IOPIP21.

FRU List:
SVCDOCS

27499026 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27499027 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP34.

FRU List:
SVCDOCS

27499028 Incorrect hardware configuration change has been detected.

Servicer Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

27499029 Incorrect hardware configuration change has been detected.

Servicer Response:
Contact your next level of support.

FRU List:
SVCDOCS

2749902F Array addendum Product Activity Log entry

Service Response:

This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

27499030 Array no longer protected due to missing or failed disk unit. Perform IOPIP21.

FRU List:
SVCDOCS

27499031 Array protection temporarily suspended

Service Response:

No action required. Protection will be automatically restarted.

27499040 Array protection temporarily suspended

Service Response:

No action required. Protection will be automatically restarted.

27499041 Background array parity check detected and corrected errors. Call your next level of support to report the problem.

FRU List:
AJDGP01

27499050 Required cache data cannot be located for a disk unit.

Service Response:
Perform IOPIP30.

FRU List:
SVCDOCS

27499051 IOP cache data exists for a missing or failed device.

Service Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

27499052 Cache data exists for device that has been modified.

Service Response:

Perform IOPIP28.

FRU List:
SVCDOCS

27499053 IOP resources not available due to previous problems.

Service Response:

Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27499054 IOP resources not available due to previous problems.

Service Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27499081 I/O processor card detected device error

FRU List:
FI01105

STORIOA

27499082 I/O processor card detected device error

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27499090 **Disk unit has been modified after the last known status.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27499091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27499092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:
SVCDOCS

2749B3B1 **A permanent I/O processor failure occurred**

FRU List:
IOP

2749B3B2 **A permanent I/O processor failure occurred**

FRU List:
IOP

2749B3B3 **A permanent I/O processor failure occurred**

FRU List:
IOP

2749B3B4 **A permanent I/O processor failure occurred**

FRU List:
IOP

2749B3B5 **A permanent I/O processor failure occurred**

FRU List:
IOP

2749B3B6 **A permanent I/O processor failure occurred**

FRU List:
IOP

2749B3B7 **A permanent I/O processor failure occurred**

FRU List:
IOP

2749B3B8 **Multi-adapter bridge error detected.**

FRU List:
MA_BRDG

IOP

2749B3B9 **A permanent I/O processor failure occurred**

FRU List:
IOP

2749B3E0 **I/O processor detected a fault condition.**

FRU List:
IOP

MA_BRDG

2749B3E1 **I/O processor detected a fault condition.**

FRU List:
IOP

MA_BRDG

2749B410 **A permanent I/O processor failure occurred**

FRU List:
STORIOA

2749B411 **A permanent I/O processor failure occurred**

FRU List:
STORIOA

2749B412 Tape/CD or disk bus interface error occurred

Service Response:
Perform IOPIP16.

FRU List:
FI01107

FI01140

STORIOA

DEVTERM

2749B935 Unknown hardware detected

FRU List:
FI01101

AJDGP01

IOP

MA_BRDG

2749BE00 I/O processor detected a fault condition.

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

2749FF3D I/O adapter detected a recoverable error

FRU List:
STORIOA

ANYBRDG

2749FF6D I/O processor detected a recoverable system bus error.

FRU List:
IOP

ANYBUS

27670A17 A permanent I/O processor failure occurred

FRU List:
IOP

MA_BRDG

AJDGP01

AJDG301

27670A22 I/O processor detected a storage transfer error

FRU List:
AJDGP01

AJDG301

IOP

MA_BRDG

2767102E Out of alternate sectors for disk storage

FRU List:
FI01105

27671306 I/O processor card or Licensed Internal Code error

Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
AJDGP01

IOP

FI01104

BACKPLN

27671307 I/O processor resource not available

FRU List:
AJDGP01

AJDG301

27671310 I/O processor resource not available

Service Response:

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

27671317 I/O processor card error

Service Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

27672200 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

27672201 Removable media error during IPL

FRU List:
USER

FI01105

27672202 Removable media error during IPL

FRU List:
FI00022

FI01105

27673000 A permanent I/O processor failure occurred

FRU List:
FI01101

IOP

MA_BRDG

27673001 Not valid condition in I/O Processor Licensed InternalCode

Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
IOP

AJDGP01

27673002 Addressed device failed to respond to selection

Service Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

FI01141

FI01106

27673006 System bus error

FRU List:
IOP

ANYBUS

FI01101

27673020 I/O processor detected a SCSI bus configuration error

Service Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27673021 I/O processor detected a SCSI bus configuration error

Service Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27673022 I/O processor detected a SCSI bus configuration error

Service Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27673023 I/O processor detected a SCSI bus configuration error
Service Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27673080 I/O processor Licensed Internal Code error
FRU List:

AJDGP01

27673081 System log entry only, no service action required.

27673084 I/O processor card or Licensed Internal Code error
Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:

AJDGP01

IOP

FI01104

MA_BRDG

27673087 I/O processor resource not available
Service Response:

The LicensedInternal Code could not allocate resources on the I/O processor card.

FRU List:

AJDGP01

AJDG301

IOACNFG

FI01104

27673100 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27673101 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27673102 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27673103 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27673109 I/O processor timed out a device command

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27673110 I/O processor card detected interface error

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27673120 I/O Processor detected that the bus is not operational

Servicer Response:
A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27673121 I/O Processor detected that the bus is not operational

Servicer Response:
A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27673122 I/O Processor detected that the bus is not operational

Servicer Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27673123 I/O Processor detected that the bus is not operational

Servicer Response:
A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

27673136 The removable media device is assigned elsewhere

FRU List:
USER

FI01105

27673140 I/O Processor detected that the bus is now operational

Servicer Response:
This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27673141 I/O Processor detected that the bus is now operational

Servicer Response:
This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27673142 I/O Processor detected that the bus is now operational

Servicer Response:
This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

27673143 I/O Processor detected that the bus is now operational

Servicer Response:
This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27673150 I/O processor detected a SCSI bus configuration error

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

27673151 I/O processor detected a SCSI bus configuration error

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

27673200 A tape/CD or disk device reported a failure

FRU List:

FI01105

STORIOA

IOP

MEDIA

27673203 Disk media format bad

FRU List:

FI01105

27673205 Disk sector read error

Servicer Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:

FI01105

27673215 Disk sector read error

Servicer Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:

FI01105

27673250 Disk unit requires initialization before use.

Servicer Response:

Perform a D-IPL and work on errors found in the log.

FRU List:

USER

27673300 Storage unit detected a media problem

Servicer Response:

Perform IOPIP01.

FRU List:

MEDIA

FI00121

FI01141

27673400 I/O processor card detected device error

Servicer Response:

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

DEVTERM

FI01140

27673401 Device backplane problem

FRU List:

DEVBPLN

27673501 I/O processor Licensed Internal Code error

FRU List:

AJDGP01

IOP

27673600 System log entry only, no service action required.

27673601 System log entry only, no service action required.

27676070 A permanent I/O processor failure occurred

FRU List:
IOP

27676071 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

27676072 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

27676073 IPL device not ready

FRU List:
MEDIA

FI01105

USER

27676075 I/O processor resource not available

FRU List:
AJDGP01

27676076 I/O processor card detected media error

FRU List:
MEDIA

AJDGP01

FI01105

27676081 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

27676082 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

27676083 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

27676085 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

MA_BRDG

27676200 A permanent IOA hardware error occurred

FRU List:
FCIOA

OPT_CLN

27676201 IOA LID is not valid

FRU List:
AJDGP01

27676602 An I/O processor Licensed Internal Code error occurred.

FRU List:
AJDGP01

27678000 A permanent IOP or cache adaptor card failure occurred.

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

27678002 A permanent cache adaptor card failure occurred.

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

27678004 **Voltage drop detected on I/O processor 5 volt powersupply.**

FRU List:
FI01141

STORIOA

27678005 **A recoverable IOP or cache adaptor card error occurred.**

Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

27678007 **A recoverable cache adaptor card error occurred.**

Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

27678010 **A permanent cache adaptor card failure occurred.**

Servicer Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

27678011 **A permanent cache adaptor card failure occurred.**

Servicer Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:

CACHE

STORIOA

27678100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27678130 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

27678131 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

27678132 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

27678133 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

27678140 **IOA detected recoverable device bus error**

Servicer Response:

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

27678141 **IOA detected recoverable device error**

Servicer Response:

No action is required. This reference code is logged for information only. Perform IOPIP01.

27678145 **A recoverable I/O processor error occurred.**

FRU List:
STORIOA

27678146 **Disk device detected recoverable error**
FRU List:
 FI01105

27678150 **A permanent I/O processor failure occurred**
FRU List:
 STORIOA

 ANYBRDG

27678151 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

 STORIOA

27678155 **A permanent I/O processor failure occurred**
FRU List:
 AJDGP01

 STORIOA

27678156 **A permanent I/O processor failure occurred**
FRU List:
 AJDGP01

 STORIOA

27678157 **I/O adapter card error**
Servicer Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
 SVCDOCS

27678200 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

 IOP

27678300 **I/O processor card or Licensed Internal Code error**
Servicer Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
 STORIOA

 IOP

 AJDGP01

27678301 **Not valid condition in I/O Processor Licensed InternalCode**
Servicer Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
 FI01101

 AJDGP01

 IOP

27678400 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

27679000 **I/O processor card detected device error**
FRU List:
 FI01105

 STORIOA

27679001 **I/O processor card detected device configuration error**
Servicer Response:

Perform IOPIP33.

FRU List:
 SVCDOCS

27679002 I/O processor card detected device error

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27679008 I/O card does not support functions expected by devices

Servicer Response:
Perform IOPIP25.

FRU List:
SVCDOCS

27679009 Call your next level of support for assistance

FRU List:
SVCDOCS

27679010 Cache data associated with attached devices cannot be found IOPIP31.

FRU List:
SVCDOCS

27679011 Cache data belongs to devices other than those attached

Servicer Response:
Perform IOPIP32.

FRU List:
SVCDOCS

27679012 IOP requires a cache adaptor card but cannot find it.

Servicer Response:
The cache adapter card is missing or broken. Perform IOPIP29.

FRU List:
CACHE

27679013 The IOP and attached cache adaptor card are not compatible.

Servicer Response:
Perform IOPIP19.

FRU List:
SVCDOCS

27679020 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27679021 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

27679022 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27679023 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27679024 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27679025 Disk unit is not supported at its physical location.

Servicer Response:
Perform IOPIP21.

FRU List:
SVCDOCS

27679026 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:

SVCDOCS

27679027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

27679028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

27679029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

2767902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

27679030 **Array no longer protected due to missing or failed disk unit. Perform IOPIP21.**

FRU List:
SVCDOCS

27679031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27679040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

27679041 **Background array parity check detected and corrected errors. Call your next level of support to report the problem.**

FRU List:
AJDGP01

27679050 **Required cache data cannot be located for a disk unit.**

Service Response:
Perform IOPIP30.

FRU List:
SVCDOCS

27679051 **IOP cache data exists for a missing or failed device.**

Service Response:
If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

27679052 **Cache data exists for device that has been modified.**

Service Response:
Perform IOPIP28.

FRU List:
SVCDOCS

27679053 **IOP resources not available due to previous problems.**

Service Response:
Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27679054 **IOP resources not available due to previous problems.**

Service Response:
Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27679081 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27679082 **I/O processor card detected device error**

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27679090 **Disk unit has been modified after the last known status.**

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27679091 **Incorrect hardware configuration change has been detected.**

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27679092 **Disk unit requires initialization before use.**

Servicer Response:
Perform IOPIP26.

FRU List:
SVCDOCS

2767B3B1 **A permanent I/O processor failure occurred**

FRU List:
IOP

2767B3B2 **A permanent I/O processor failure occurred**

FRU List:
IOP

2767B3B3 **A permanent I/O processor failure occurred**

FRU List:
IOP

2767B3B4 **A permanent I/O processor failure occurred**

FRU List:
IOP

2767B3B5 **A permanent I/O processor failure occurred**

FRU List:
IOP

2767B3B6 **A permanent I/O processor failure occurred**

FRU List:
IOP

2767B3B7 **A permanent I/O processor failure occurred**

FRU List:
IOP

2767B3B8 **Multi-adapter bridge error detected.**

FRU List:
MA_BRDG

IOP

2767B3B9 **A permanent I/O processor failure occurred**

FRU List:
IOP

2767B3E0 **I/O processor detected a fault condition.**

FRU List:
IOP

MA_BRDG

2767B3E1 I/O processor detected a fault condition.
FRU List:
IOP

MA_BRDG

2767B410 A permanent I/O processor failure occurred

FRU List:
STORIOA

2767B411 A permanent I/O processor failure occurred

FRU List:
STORIOA

2767B412 Tape/CD or disk bus interface error occurred

Servicer Response:
Perform IOPIP16.

FRU List:
FI01107

FI01140

STORIOA

DEVTERM

2767B935 Unknown hardware detected

FRU List:
FI01101

AJDGP01

IOP

MA_BRDG

2767BE00 I/O processor detected a fault condition.

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

2767FF3D I/O adapter detected a recoverable error
FRU List:
STORIOA

ANYBRDG

2767FF6D I/O processor detected a recoverable system bus error.

FRU List:
IOP

ANYBUS

27680A17 A permanent I/O processor failure occurred

FRU List:
IOP

MA_BRDG

AJDGP01

AJDG301

27680A22 I/O processor detected a storage transfer error

FRU List:
AJDGP01

AJDG301

IOP

MA_BRDG

2768102E Out of alternate sectors for disk storage

FRU List:
FI01105

27681306 I/O processor card or Licensed Internal Code error

Servicer Response:
A microprocessor exception occurred on the I/O processor.

FRU List:
AJDGP01

IOP

FI01104

BACKPLN

27681307 I/O processor resource not available**FRU List:**
AJDGP01AJDG301

27681310 I/O processor resource not available**Servicer Response:**

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

27681317 I/O processor card error**Servicer Response:**

Display the Service ActionLog entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

27682200 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

27682201 Removable media error during IPL**FRU List:**
USERFI01105

27682202 Removable media error during IPL**FRU List:**
FI00022FI01105

27683000 A permanent I/O processor failure occurred**FRU List:**
FI01101

IOP

MA_BRDG

27683001 Not valid condition in I/O Processor Licensed InternalCode**Servicer Response:**

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
IOPAJDGP01

27683002 Addressed device failed to respond to selection**Servicer Response:**

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

FI01141

FI01106

27683006 System bus error**FRU List:**
IOP

ANYBUS

FI01101

27683020 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

27683021 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27683022 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27683023 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

27683080 I/O processor Licensed Internal Code error**FRU List:**

AJDGP01

27683081 System log entry only, no service action required.

27683084 I/O processor card or Licensed Internal Code error**Service Response:**

A microprocessor exception occurred on the I/O processor.

FRU List:

AJDGP01

IOP

FI01104

MA_BRDG

27683087 I/O processor resource not available**Service Response:**

The LicensedInternal Code could not allocate resources on the I/O processor card.

FRU List:

AJDGP01

AJDG301

IOACNFG

FI01104

27683100 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27683101 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27683102 I/O processor card detected interface error

Service Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27683103 I/O processor card detected interface error

Service Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

27683109 I/O processor timed out a device command

Service Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

27683110 I/O processor card detected interface error

Service Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

27683120 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27683121 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27683122 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27683123 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

27683136 The removable media device is assigned elsewhere

FRU List:

USER

FI01105

27683140 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27683141 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27683142 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

27683143 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27683150 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOS

27683151 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOS

27683200 A tape/CD or disk device reported a failure

FRU List:
FI01105

STORIOA

IOP

MEDIA

27683203 Disk media format bad

FRU List:
FI01105

27683205 Disk sector read error

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

27683215 Disk sector read error

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

27683250 Disk unit requires initialization before use.

Service Response:

Perform a D-IPL and work on errors found in the log.

FRU List:
USER

27683300 Storage unit detected a media problem

Service Response:

Perform IOPIP01.

FRU List:
MEDIA

FI00121

FI01141

27683400 I/O processor card detected device error

Service Response:

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:
FI02112

STORIOA

FI01106

DEVTERM

FI01140

27683401	Device backplane problem	FI01105	
FRU List: DEVBPLN		27686081	I/O processor Licensed Internal Code error
27683501	I/O processor Licensed Internal Code error	FRU List: AJDGP01	
FRU List: AJDGP01		IOP	
IOP		27686082	I/O processor Licensed Internal Code error
27683600	System log entry only, no service action required.	FRU List: AJDGP01	
27683601	System log entry only, no service action required.	IOP	
27686070	A permanent I/O processor failure occurred	27686083	I/O processor Licensed Internal Code error
FRU List: IOP		FRU List: AJDGP01	
27686071	I/O processor Licensed Internal Code error	IOP	
FRU List: AJDGP01		27686085	I/O processor Licensed Internal Code error
27686072	I/O processor Licensed Internal Code error	FRU List: AJDGP01	
FRU List: AJDGP01		IOP	
IOP		MA_BRDG	
27686073	IPL device not ready	27686200	A permanent IOA hardware error occurred
FRU List: MEDIA		FRU List: FCIOA	
FI01105		OPT_CLN	
USER		27686201	IOA LID is not valid
27686075	I/O processor resource not available	FRU List: AJDGP01	
FRU List: AJDGP01		27686602	An I/O processor Licensed Internal Code error occurred.
27686076	I/O processor card detected media error	FRU List: AJDGP01	
FRU List: MEDIA			
AJDGP01			

27688000 **A permanent IOP or cache adaptor card failure occurred.**

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

27688002 **A permanent cache adaptor card failure occurred.**

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

27688004 **Voltage drop detected on I/O processor 5 volt powersupply.**

FRU List:
FI01141

STORIOA

27688005 **A recoverable IOP or cache adaptor card error occurred.**

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

27688007 **A recoverable cache adaptor card error occurred.**

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

27688010 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

27688011 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

27688100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27688130 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

27688131 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

27688132 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

27688133 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

27688140 **IOA detected recoverable device bus error**

Servicer Response:

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

27688141 **IOA detected recoverable device error**

Servicer Response:

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

27688145 **A recoverable I/O processor error occurred.**

FRU List:
STORIOA

27688146 **Disk device detected recoverable error**

FRU List:
FI01105

27688150 **A permanent I/O processor failure occurred**

FRU List:
STORIOA

ANYBRDG

27688151 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

STORIOA

27688155 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

27688156 **A permanent I/O processor failure occurred**

FRU List:

AJDGP01

STORIOA

27688157 **I/O adapter card error**

Servicer Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

27688200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

27688300 **I/O processor card or Licensed Internal Code error**

Servicer Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
STORIOA

IOP

AJDGP01

27688301 **Not valid condition in I/O Processor Licensed Internal Code**

Servicer Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
FI01101

AJDGP01

IOP

27688400 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

27689000 **I/O processor card detected device error**
FRU List:
 FI01105

STORIOA

27689001 **I/O processor card detected device configuration error**
Servicer Response:
 Perform IOPIP33.

FRU List:
 SVCDOCS

27689002 **I/O processor card detected device error**
Servicer Response:
 Perform IOPIP16.

FRU List:
 FI01105

STORIOA

FI01140

BACKPLN

FI01106

27689008 **I/O card does not support functions expected by devices**
Servicer Response:
 Perform IOPIP25.

FRU List:
 SVCDOCS

27689009 **Call your next level of support for assistance**
FRU List:
 SVCDOCS

27689010 **Cache data associated with attached devices cannot be found. Perform IOPIP31.**
FRU List:
 SVCDOCS

27689011 **Cache data belongs to devices other than those attached**
Servicer Response:
 Perform IOPIP32.

FRU List:
 SVCDOCS

27689012 **IOP requires a cache adaptor card but cannot find it.**
Servicer Response:
 The cache adapter card is missing or broken. Perform IOPIP29.

FRU List:
 CACHE

27689013 **The IOP and attached cache adaptor card are not compatible.**
Servicer Response:
 Perform IOPIP19.

FRU List:
 SVCDOCS

27689020 **Array not functional due to present hardware configuration.**
Servicer Response:
 Perform IOPIP20.

FRU List:
 SVCDOCS

27689021 **Array not functional due to present hardware configuration.**
Servicer Response:
 Perform IOPIP20.

FRU List:
 SVCDOCS

27689022 **Array not functional due to present hardware configuration.**
Servicer Response:
 Perform IOPIP22.

FRU List:
 SVCDOCS

27689023 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27689024 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27689025 **Disk unit is not supported at its physical location.**

Servicer Response:
Perform IOPIP21.

FRU List:
SVCDOCS

27689026 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

27689027 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP34.

FRU List:
SVCDOCS

27689028 **Incorrect hardware configuration change has been detected.**

Servicer Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

27689029 **Incorrect hardware configuration change has been detected.**

Servicer Response:
Contact your next level of support.

FRU List:
SVCDOCS

2768902F **Array addendum Product Activity Log entry**

Servicer Response:

This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

27689030 **Array no longer protected due to missing or failed disk unit. Perform IOPIP21.**

FRU List:
SVCDOCS

27689031 **Array protection temporarily suspended**

Servicer Response:

No action required. Protection will be automatically restarted.

27689040 **Array protection temporarily suspended**

Servicer Response:

No action required. Protection will be automatically restarted.

27689041 **Background array parity check detected and corrected errors. Call your next level of support to report the problem.**

FRU List:
AJDGP01

27689050 **Required cache data cannot be located for a disk unit.**

Servicer Response:
Perform IOPIP30.

FRU List:
SVCDOCS

27689051 **IOP cache data exists for a missing or failed device.**

Servicer Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

27689052 **Cache data exists for device that has been modified.**

Service Response:
Perform IOPIP28.

FRU List:
SVCDOCS

27689053 **IOP resources not available due to previous problems.**

Service Response:
Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27689054 **IOP resources not available due to previous problems.**

Service Response:
Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

27689081 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

27689082 **I/O processor card detected device error**

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

27689090 **Disk unit has been modified after the last known status.**

Service Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27689091 **Incorrect hardware configuration change has been detected.**

Service Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27689092 **Disk unit requires initialization before use.**

Service Response:
Perform IOPIP26.

FRU List:
SVCDOCS

2768B3B1 **A permanent I/O processor failure occurred**

FRU List:
IOP

2768B3B2 **A permanent I/O processor failure occurred**

FRU List:
IOP

2768B3B3 **A permanent I/O processor failure occurred**

FRU List:
IOP

2768B3B4 **A permanent I/O processor failure occurred**

FRU List:
IOP

2768B3B5 A permanent I/O processor failure occurred

FRU List:
IOP

2768B3B6 A permanent I/O processor failure occurred

FRU List:
IOP

2768B3B7 A permanent I/O processor failure occurred

FRU List:
IOP

2768B3B8 Multi-adapter bridge error detected.

FRU List:
MA_BRDG

IOP

2768B3B9 A permanent I/O processor failure occurred

FRU List:
IOP

2768B3E0 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

2768B3E1 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

2768B410 A permanent I/O processor failure occurred

FRU List:
STORIOA

2768B411 A permanent I/O processor failure occurred

FRU List:
STORIOA

2768B412 Tape/CD or disk bus interface error occurred

Servicer Response:
Perform IOPIP16.

FRU List:
FI01107

FI01140

STORIOA

DEVTERM

2768B935 Unknown hardware detected

FRU List:
FI01101

AJDGP01

IOP

MA_BRDG

2768BE00 I/O processor detected a fault condition.

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

2768FF3D I/O adapter detected a recoverable error

FRU List:
STORIOA

ANYBRDG

2768FF6D I/O processor detected a recoverable system bus error.

FRU List:
IOP

ANYBUS

28420A17 A permanent I/O processor failure occurred

FRU List:
IOP

MA_BRDG

AJDGP01

AJDG301

28420A22 I/O processor detected a storage transfer error
FRU List:

AJDGP01

AJDG301

IOP

MA_BRDG

2842102E Out of alternate sectors for disk storage
FRU List:

FI01105

28421306 I/O processor card or Licensed Internal Code error
Servicer Response:

A microprocessor exception occurred on the I/O processor.

FRU List:

AJDGP01

IOP

FI01104

BACKPLN

28421307 I/O processor resource not available
FRU List:

AJDGP01

AJDG301

28421310 I/O processor resource not available
Servicer Response:

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

28421317 I/O processor card error
Servicer Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:

SVCDOCS

28422200 I/O processor Licensed Internal Code error
FRU List:

AJDGP01

28422201 Removable media error during IPL
FRU List:

USER

FI01105

28422202 Removable media error during IPL
FRU List:

FI00022

FI01105

28423000 A permanent I/O processor failure occurred
FRU List:

FI01101

IOP

MA_BRDG

28423001 Not valid condition in I/O Processor Licensed InternalCode
Servicer Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:

IOP

AJDGP01

28423002 Addressed device failed to respond to selection
Servicer Response:

Perform IOPIP16.

FRU List:

FI01105		USER
STORIOA		FI01107
FI01140		STORIOA
FI01141		
FI01106		
28423006	System bus error	
FRU List: IOP		
ANYBUS		
FI01101		
28423020	I/O processor detected a SCSI bus configuration error	
Servicer Response: Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.		
FRU List: USER		
FI01107		
STORIOA		
28423080	I/O processor Licensed Internal Code error	
FRU List: AJDGP01		
28423081	System log entry only, no service action required.	
28423084	I/O processor card or Licensed Internal Code error	
Servicer Response: A microprocessor exception occurred on the I/O processor.		
FRU List: AJDGP01		
IOP		
FI01104		
MA_BRDG		
28423087	I/O processor resource not available	
Servicer Response: The LicensedInternal Code could not allocate resources on the I/O processor card.		
FRU List: AJDGP01		
AJDG301		
IOACNFG		
FI01104		

28423100 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28423101 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28423102 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28423103 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28423109 I/O processor timed out a device command
Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

28423110 I/O processor card detected interface error
Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

28423120 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

28423121 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

28423122 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

28423123 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

28423136 The removable media device is assigned elsewhere

FRU List:
USER

FI01105

28423140 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

28423141 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

28423142 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

28423143 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

28423150 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOCS

28423151 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

28423200 A tape/CD or disk device reported a failure

FRU List:
FI01105

STORIOA

IOP

MEDIA

28423203 Disk media format bad

FRU List:
FI01105

28423205 Disk sector read error

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

28423215 Disk sector read error

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

28423250 **Disk unit requires initialization before use.**

Service Response:

Performa D-IPL and work on errors found in the log.

FRU List:

USER

28423300 **Storage unit detected a media problem**

Service Response:

Perform IOPIP01.

FRU List:

MEDIA

FI00121

FI01141

28423400 **I/O processor card detected device error**

Service Response:

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

DEVTERM

FI01140

28423401 **Device backplane problem**

FRU List:

DEVBPLN

28423501 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

28423600 **System log entry only, no service action required.**

28423601 **System log entry only, no service action required.**

28426070 **A permanent I/O processor failure occurred**

FRU List:

IOP

28426071 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

28426072 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

28426073 **IPL device not ready**

FRU List:

MEDIA

FI01105

USER

28426075 **I/O processor resource not available**

FRU List:

AJDGP01

28426076 **I/O processor card detected media error**

FRU List:

MEDIA

AJDGP01

FI01105

28426081 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

28426082 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

28426083	I/O processor Licensed Internal Code error
FRU List: AJDGP01	
IOP	
28426085	I/O processor Licensed Internal Code error
FRU List: AJDGP01	
IOP	
MA_BRDG	
28426200	A permanent IOA hardware error occurred
FRU List: FCIOA	
OPT_CLN	
28426201	IOA LID is not valid
FRU List: AJDGP01	
28426602	An I/O processor Licensed Internal Code error occurred.
FRU List: AJDGP01	
28428000	A permanent IOP or cache adaptor card failure occurred.
Servicer Response:	
Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.	
FRU List: STORIOA	
CACHE	
28428002	A permanent cache adaptor card failure occurred.
Servicer Response:	
Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.	
FRU List: CACHE	

STORIOA

28428004 Voltage drop detected on I/O processor 5 volt powersupply.

FRU List:
FI01141

STORIOA

28428005 A recoverable IOP or cache adaptor card error occurred.

Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

28428007 A recoverable cache adaptor card error occurred.

Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

28428010 A permanent cache adaptor card failure occurred.

Servicer Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

28428011 A permanent cache adaptor card failure occurred.

Servicer Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:

CACHE

STORIOA

28428100 I/O processor Licensed Internal Code error
FRU List:
 AJDGP01

IOP

28428130 IOA detected recoverable device bus error
Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

28428131 IOA detected recoverable device bus error
Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

28428132 IOA detected recoverable device bus error
Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

28428133 IOA detected recoverable device bus error
Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

28428140 IOA detected recoverable device bus error
Service Response:

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

28428141 IOA detected recoverable device error
Service Response:

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

28428145 A recoverable I/O processor error occurred.
FRU List:
 STORIOA

28428146 Disk device detected recoverable error
FRU List:
 FI01105

28428150 A permanent I/O processor failure occurred
FRU List:
 STORIOA

ANYBRDG

28428151 I/O processor Licensed Internal Code error
FRU List:
 AJDGP01

STORIOA

28428155 A permanent I/O processor failure occurred
FRU List:
 AJDGP01

STORIOA

28428156 A permanent I/O processor failure occurred
FRU List:
 AJDGP01

STORIOA

28428157 I/O adapter card error
Service Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
 SVCDOCS

28428200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

28428300 **I/O processor card or Licensed Internal Code error**

Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
STORIOA

IOP

AJDGP01

28428301 **Not valid condition in I/O Processor Licensed InternalCode**

Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
FI01101

AJDGP01

IOP

28428400 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

28429000 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

28429001 **I/O processor card detected device configuration error**

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

28429002 **I/O processor card detected device error**

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

28429008 **I/O card does not support functions expected by devices**

Service Response:

Perform IOPIP25.

FRU List:
SVCDOCS

28429009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

28429010 **Cache data associated with attached devices cannot be found. Perform IOPIP31.**

FRU List:
SVCDOCS

28429011 **Cache data belongs to devices other than those attached**

Service Response:

Perform IOPIP32.

FRU List:
SVCDOCS

28429012 **IOP requires a cache adaptor card but cannot find it.**

Service Response:

The cache adapter card is missing or broken. Perform IOPIP29.

FRU List:
CACHE

28429013 The IOP and attached cache adaptor card are not compatible.

Service Response:
Perform IOPIP19.

FRU List:
SVCDOCS

28429020 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

28429021 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

28429022 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28429023 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28429024 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28429025 Disk unit is not supported at its physical location.

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

28429026 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28429027 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

28429028 Incorrect hardware configuration change has been detected.

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

28429029 Incorrect hardware configuration change has been detected.

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

2842902F Array addendum Product Activity Log entry

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

28429030 Array no longer protected due to missing or failed disk unit. Perform IOPIP21.

FRU List:
SVCDOCS

28429031 Array protection temporarily suspended

Service Response:
No action required. Protection will be automatically restarted.

28429040 Array protection temporarily suspended**Service Response:**

No action required. Protection will be automatically restarted.

28429041 Background array parity check detected and corrected errors. Call your next level of support to report the problem.**FRU List:**

AJDGP01

28429050 Required cache data cannot be located for a disk unit.**Service Response:**

Perform IOPIP30.

FRU List:

SVCDOS

28429051 IOP cache data exists for a missing or failed device.**Service Response:**

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:

SVCDOS

28429052 Cache data exists for device that has been modified.**Service Response:**

Perform IOPIP28.

FRU List:

SVCDOS

28429053 IOP resources not available due to previous problems.**Service Response:**

Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOS

28429054 IOP resources not available due to previous problems.**Service Response:**

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you

cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOS

28429081 I/O processor card detected device error**FRU List:**

FI01105

STORIOA

28429082 I/O processor card detected device error**Service Response:**

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

28429090 Disk unit has been modified after the last known status.**Service Response:**

Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCDOS

28429091 Incorrect hardware configuration change has been detected.**Service Response:**

Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCDOS

28429092 Disk unit requires initialization before use.**Service Response:**

Perform IOPIP26.

FRU List:

SVCDOCS

2842B3B1 **A permanent I/O processor failure occurred**

FRU List:
IOP

2842B3B2 **A permanent I/O processor failure occurred**

FRU List:
IOP

2842B3B3 **A permanent I/O processor failure occurred**

FRU List:
IOP

2842B3B4 **A permanent I/O processor failure occurred**

FRU List:
IOP

2842B3B5 **A permanent I/O processor failure occurred**

FRU List:
IOP

2842B3B6 **A permanent I/O processor failure occurred**

FRU List:
IOP

2842B3B7 **A permanent I/O processor failure occurred**

FRU List:
IOP

2842B3B8 **Multi-adapter bridge error detected.**

FRU List:
MA_BRDG

IOP

2842B3B9 **A permanent I/O processor failure occurred**

FRU List:
IOP

2842B3E0 **I/O processor detected a fault condition.**

FRU List:
IOP

MA_BRDG

2842B3E1 **I/O processor detected a fault condition.**

FRU List:
IOP

MA_BRDG

2842B410 **A permanent I/O processor failure occurred**

FRU List:
STORIOA

2842B411 **A permanent I/O processor failure occurred**

FRU List:
STORIOA

2842B412 **Tape/CD or disk bus interface error occurred**

Servicer Response:
Perform IOPIP16.

FRU List:
FI01107

FI01140

STORIOA

DEVTERM

2842B935 **Unknown hardware detected**

FRU List:
FI01101

AJDGP01

IOP

MA_BRDG

2842BE00 **I/O processor detected a fault condition.**

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

2842FF3D I/O adapter detected a recoverable error**FRU List:**
STORIOA

ANYBRDG

2842FF6D I/O processor detected a recoverable system bus error.**FRU List:**
IOP

ANYBUS

28430A17 A permanent I/O processor failure occurred**FRU List:**
IOP

MA_BRDG

AJDGP01

AJDG301

28430A22 I/O processor detected a storage transfer error**FRU List:**
AJDGP01

AJDG301

IOP

MA_BRDG

2843102E Out of alternate sectors for disk storage**FRU List:**
FI01105

28431306 I/O processor card or Licensed Internal Code error**Service Response:**

A microprocessor exception occurred on the I/O processor.

FRU List:
AJDGP01

IOP

FI01104

BACKPLN

28431307 I/O processor resource not available**FRU List:**
AJDGP01

AJDG301

28431310 I/O processor resource not available**Service Response:**

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

28431317 I/O processor card error**Service Response:**

Display the Service ActionLog entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

28432200 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

28432201 Removable media error during IPL**FRU List:**
USER

FI01105

28432202 Removable media error during IPL**FRU List:**
FI00022

FI01105

28433000 **A permanent I/O processor failure occurred**

FRU List:
FI01101

IOP

MA_BRDG

28433001 **Not valid condition in I/O Processor Licensed InternalCode**

Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
IOP

AJDGP01

28433002 **Addressed device failed to respond to selection**

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

FI01141

FI01106

28433006 **System bus error**

FRU List:
IOP

ANYBUS

FI01101

28433020 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

28433021 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

28433022 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

28433023 **I/O processor detected a SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

28433080 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

28433081 **System log entry only, no service action required.**

28433084 I/O processor card or Licensed Internal Code error

Servicer Response:

A microprocessor exception occurred on the I/O processor.

FRU List:

AJDGP01

IOP

FI01104

MA_BRDG

28433087 I/O processor resource not available

Servicer Response:

The LicensedInternal Code could not allocate resources on the I/O processor card.

FRU List:

AJDGP01

AJDG301

IOACNFG

FI01104

28433100 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28433101 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28433102 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28433103 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28433109 I/O processor timed out a device command

Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

28433110 I/O processor card detected interface error

Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

28433120 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

28433121 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

28433122 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

28433123 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

28433136 The removable media device is assigned elsewhere

FRU List:
USER

FI01105

28433140 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

28433141 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

28433142 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

28433143 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

28433150 I/O processor detected a SCSI bus configuration error
Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOCS

28433151 I/O processor detected a SCSI bus configuration error
Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

28433200 A tape/CD or disk device reported a failure

FRU List:
FI01105

STORIOA

IOP

MEDIA

28433203 Disk media format bad**FRU List:**
FI01105

28433205 Disk sector read error**Service Response:**

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

28433215 Disk sector read error**Service Response:**

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

28433250 Disk unit requires initialization before use.**Service Response:**

Perform a D-IPL and work on errors found in the log.

FRU List:
USER

28433300 Storage unit detected a media problem**Service Response:**

Perform IOPIP01.

FRU List:
MEDIA

FI00121

FI01141

28433400 I/O processor card detected device error**Service Response:**

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:
FI02112

STORIOA

FI01106

DEVTERM

FI01140

28433401 Device backplane problem**FRU List:**
DEVBPLN

28433501 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

IOP

28433600 System log entry only, no service action required.

28433601 System log entry only, no service action required.

28436070 A permanent I/O processor failure occurred**FRU List:**
IOP

28436071 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

28436072 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

IOP

28436073 IPL device not ready**FRU List:**
MEDIA

FI01105

USER

28436075 I/O processor resource not available**FRU List:**
AJDGP01

28436076 I/O processor card detected media error**FRU List:**
MEDIA

AJDGP01

FI01105

28436081 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

IOP

28436082 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

IOP

28436083 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

IOP

28436085 **I/O processor Licensed Internal Code error**
FRU List:
 AJDGP01

IOP

MA_BRDG

28436200 **A permanent IOA hardware error occurred**
FRU List:
 FCIOA

OPT_CLN

28436201 **IOA LID is not valid**
FRU List:
 AJDGP01

28436602 **An I/O processor Licensed Internal Code error occurred.**
FRU List:
 AJDGP01

28438000 **A permanent IOP or cache adaptor card failure occurred.**
Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
 STORIOA

CACHE

28438002 **A permanent cache adaptor card failure occurred.**
Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
 CACHE

STORIOA

28438004 **Voltage drop detected on I/O processor 5 volt powersupply.**
FRU List:
 FI01141

STORIOA

28438005 **A recoverable IOP or cache adaptor card error occurred.**
Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
 STORIOA

CACHE

28438007 **A recoverable cache adaptor card error occurred.**
Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
 CACHE

STORIOA

28438010 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:

CACHE

STORIOA

28438011 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:

CACHE

STORIOA

28438100 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

28438130 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

28438131 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

28438132 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

28438133 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

28438140 **IOA detected recoverable device bus error**

Service Response:

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

28438141 **IOA detected recoverable device error**

Service Response:

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

28438145 **A recoverable I/O processor error occurred.**

FRU List:

STORIOA

28438146 **Disk device detected recoverable error**

FRU List:

FI01105

28438150 **A permanent I/O processor failure occurred**

FRU List:

STORIOA

ANYBRDG

28438151 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

STORIOA

28438155 **A permanent I/O processor failure occurred**

FRU List:

AJDGP01

STORIOA

28438156 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

28438157 **I/O adapter card error**

Servicer Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

28438200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

28438300 **I/O processor card or Licensed Internal Code error**

Servicer Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
STORIOA

IOP

AJDGP01

28438301 **Not valid condition in I/O Processor Licensed InternalCode**

Servicer Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
FI01101

AJDGP01

IOP

28438400 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

28439000 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

28439001 **I/O processor card detected device configuration error**

Servicer Response:
Perform IOPIP33.

FRU List:
SVCDOCS

28439002 **I/O processor card detected device error**

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

28439008 **I/O card does not support functions expected by devices**

Servicer Response:
Perform IOPIP25.

FRU List:
SVCDOCS

28439009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

28439010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOCS

28439011 Cache data belongs to devices other than those attached

Servicer Response:
Perform IOPIP32.

FRU List:
SVCDOCS

28439012 IOP requires a cache adaptor card but cannot find it.

Servicer Response:
The cache adapter card is missing or broken. Perform IOPIP29.

FRU List:
CACHE

28439013 The IOP and attached cache adaptor card are not compatible.

Servicer Response:
Perform IOPIP19.

FRU List:
SVCDOCS

28439020 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

28439021 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

28439022 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28439023 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28439024 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28439025 Disk unit is not supported at its physical location.

Servicer Response:
Perform IOPIP21.

FRU List:
SVCDOCS

28439026 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28439027 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP34.

FRU List:
SVCDOCS

28439028 Incorrect hardware configuration change has been detected.

Servicer Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

28439029 Incorrect hardware configuration change has been detected.

Servicer Response:
Contact your next level of support.

FRU List:
SVCDOCS

2843902F Array addendum Product Activity Log entry
Service Response:

This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

28439030 Array no longer protected due to missing or failed disk unit. Perform IOPIP21.

FRU List:
SVCDOCS

28439031 Array protection temporarily suspended
Service Response:

No action required. Protection will be automatically restarted.

28439040 Array protection temporarily suspended
Service Response:

No action required. Protection will be automatically restarted.

28439041 Background array parity check detected and corrected errors. Call your next level of support to report the problem.

FRU List:
AJDGP01

28439050 Required cache data cannot be located for a disk unit.
Service Response:

Perform IOPIP30.

FRU List:
SVCDOCS

28439051 IOP cache data exists for a missing or failed device.
Service Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

28439052 Cache data exists for device that has been modified.
Service Response:

Perform IOPIP28.

FRU List:
SVCDOCS

28439053 IOP resources not available due to previous problems.
Service Response:

Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

28439054 IOP resources not available due to previous problems.
Service Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

28439081 I/O processor card detected device error

FRU List:
FI01105

STORIOA

28439082 I/O processor card detected device error
Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

28439090 **Disk unit has been modified after the last known status.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

28439091 **Incorrect hardware configuration change has been detected.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

28439092 **Disk unit requires initialization before use.**

Service Response:

Perform IOPIP26.

FRU List:
SVCDOCS

2843B3B1 **A permanent I/O processor failure occurred**

FRU List:
IOP

2843B3B2 **A permanent I/O processor failure occurred**

FRU List:
IOP

2843B3B3 **A permanent I/O processor failure occurred**

FRU List:
IOP

2843B3B4 **A permanent I/O processor failure occurred**

FRU List:
IOP

2843B3B5 **A permanent I/O processor failure occurred**

FRU List:
IOP

2843B3B6 **A permanent I/O processor failure occurred**

FRU List:
IOP

2843B3B7 **A permanent I/O processor failure occurred**

FRU List:
IOP

2843B3B8 **Multi-adapter bridge error detected.**

FRU List:
MA_BRDG

IOP

2843B3B9 **A permanent I/O processor failure occurred**

FRU List:
IOP

2843B3E0 **I/O processor detected a fault condition.**

FRU List:
IOP

MA_BRDG

2843B3E1 **I/O processor detected a fault condition.**

FRU List:
IOP

MA_BRDG

2843B410 **A permanent I/O processor failure occurred**

FRU List:
STORIOA

2843B411 **A permanent I/O processor failure occurred**

FRU List:
STORIOA

2843B412 **Tape/CD or disk bus interface error occurred**

Service Response:
Perform IOPIP16.

FRU List:
FI01107

FI01140

STORIOA

DEVTERM

2843B935 **Unknown hardware detected**

FRU List:
FI01101

AJDGP01

IOP

MA_BRDG

2843BE00 **I/O processor detected a fault condition.**

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

2843FF3D **I/O adapter detected a recoverable error**

FRU List:
STORIOA

ANYBRDG

2843FF6D **I/O processor detected a recoverable system bus error.**

FRU List:
IOP

ANYBUS

28440A17 **A permanent I/O processor failure occurred**

FRU List:
IOP

MA_BRDG

AJDGP01

AJDG301

28440A22 **I/O processor detected a storage transfer error**

FRU List:
AJDGP01

AJDG301

IOP

MA_BRDG

2844102E **Out of alternate sectors for disk storage**

FRU List:
FI01105

28441306 **I/O processor card or Licensed Internal Code error**

Service Response:
A microprocessor exception occurred on the I/O processor.

FRU List:
AJDGP01

IOP

FI01104

BACKPLN

28441307 **I/O processor resource not available**

FRU List:
AJDGP01

AJDG301

28441310 **I/O processor resource not available**

Service Response:
The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

28441317 **I/O processor card error**

Service Response:
Display the Service ActionLog entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

28442200 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

28442201 Removable media error during IPL

FRU List:
USER

FI01105

28442202 Removable media error during IPL

FRU List:
FI00022

FI01105

28443000 A permanent I/O processor failure occurred

FRU List:
FI01101

IOP

MA_BRDG

28443001 Not valid condition in I/O Processor Licensed InternalCode

Servicer Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
IOP

AJDGP01

28443002 Addressed device failed to respond to selection

Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

FI01141

FI01106

28443006 System bus error

FRU List:
IOP

ANYBUS

FI01101

28443020 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

28443021 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

28443022 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

28443023 I/O processor detected a SCSI bus configuration error
Service Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

28443080 I/O processor Licensed Internal Code error
FRU List:

AJDGP01

28443081 System log entry only, no service action required.

28443084 I/O processor card or Licensed Internal Code error
Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:

AJDGP01

IOP

FI01104

MA_BRDG

28443087 I/O processor resource not available
Service Response:

The LicensedInternal Code could not allocate resources on the I/O processor card.

FRU List:

AJDGP01

AJDG301

IOACNFG

FI01104

28443100 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28443101 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28443102 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28443103 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

28443109 I/O processor timed out a device command**Servicer Response:**
Perform IOPIP16.**FRU List:**
FI01105

STORIOA

FI01140

BACKPLN

FI01106

28443110 I/O processor card detected interface error**Servicer Response:**
Perform IOPIP16.**FRU List:**
FI01105

STORIOA

FI01140

BACKPLN

FI01106

28443120 I/O Processor detected that the bus is not operational**Servicer Response:**
A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.**FRU List:**
SVCDOCS

28443121 I/O Processor detected that the bus is not operational**Servicer Response:**
A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.**FRU List:**
SVCDOCS

28443122 I/O Processor detected that the bus is not operational**Servicer Response:**

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

28443123 I/O Processor detected that the bus is not operational**Servicer Response:**
A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.**FRU List:**
SVCDOCS

28443136 The removable media device is assigned elsewhere**FRU List:**
USERFI01105

28443140 I/O Processor detected that the bus is now operational**Servicer Response:**
This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.**28443141 I/O Processor detected that the bus is now operational****Servicer Response:**
This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.**28443142 I/O Processor detected that the bus is now operational****Servicer Response:**
This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.**28443143 I/O Processor detected that the bus is now operational****Servicer Response:**
This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

28443150 **I/O processor detected a SCSI bus configuration error**

Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

28443151 **I/O processor detected a SCSI bus configuration error**

Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

28443200 **A tape/CD or disk device reported a failure**

FRU List:

FI01105

STORIOA

IOP

MEDIA

28443203 **Disk media format bad**

FRU List:

FI01105

28443205 **Disk sector read error**

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:

FI01105

28443215 **Disk sector read error**

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:

FI01105

28443250 **Disk unit requires initialization before use.**

Service Response:

Perform a D-IPL and work on errors found in the log.

FRU List:

USER

28443300 **Storage unit detected a media problem**

Service Response:

Perform IOPIP01.

FRU List:

MEDIA

FI00121

FI01141

28443400 **I/O processor card detected device error**

Service Response:

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

DEVTERM

FI01140

28443401 **Device backplane problem**

FRU List:

DEVBPLN

28443501 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

28443600 **System log entry only, no service action required.**

28443601 **System log entry only, no service action required.**

28446070	A permanent I/O processor failure occurred
FRU List:	
IOP	
28446071	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
28446072	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
28446073	IPL device not ready
FRU List:	
MEDIA	
FI01105	
USER	
28446075	I/O processor resource not available
FRU List:	
AJDGP01	
28446076	I/O processor card detected media error
FRU List:	
MEDIA	
AJDGP01	
FI01105	
28446081	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
28446082	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	

28446083	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
28446085	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
MA_BRDG	
28446200	A permanent IOA hardware error occurred
FRU List:	
FCIOA	
OPT_CLN	
28446201	IOA LID is not valid
FRU List:	
AJDGP01	
28446602	An I/O processor Licensed Internal Code error occurred.
FRU List:	
AJDGP01	
28448000	A permanent IOP or cache adaptor card failure occurred.
Service Response:	
Note:	DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.
FRU List:	
STORIOA	
CACHE	
28448002	A permanent cache adaptor card failure occurred.
Service Response:	
Note:	DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.
FRU List:	
CACHE	

STORIOA

28448004 **Voltage drop detected on I/O processor 5 volt powersupply.**

FRU List:
FI01141

STORIOA

28448005 **A recoverable IOP or cache adaptor card error occurred.**

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

28448007 **A recoverable cache adaptor card error occurred.**

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

28448010 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

28448011 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:

CACHE

STORIOA

28448100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

28448130 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

28448131 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

28448132 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

28448133 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

28448140 **IOA detected recoverable device bus error**

Service Response:

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

28448141 **IOA detected recoverable device error**

Service Response:

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

28448145 **A recoverable I/O processor error occurred.**

FRU List:
STORIOA

28448146 **Disk device detected recoverable error**

FRU List:
FI01105

28448150 **A permanent I/O processor failure occurred**

FRU List:
STORIOA

ANYBRDG

28448151 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

STORIOA

28448155 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

28448156 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

STORIOA

28448157 **I/O adapter card error**

Service Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

28448200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

28448300 **I/O processor card or Licensed Internal Code error**

Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
STORIOA

IOP

AJDGP01

28448301 **Not valid condition in I/O Processor Licensed InternalCode**

Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
FI01101

AJDGP01

IOP

28448400 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

28449000 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

28449001 **I/O processor card detected device configuration error**

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

28449002 I/O processor card detected device error

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

28449008 I/O card does not support functions expected by devices

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

28449009 Call your next level of support for assistance

FRU List:
SVCDOCS

28449010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOCS

28449011 Cache data belongs to devices other than those attached

Service Response:
Perform IOPIP32.

FRU List:
SVCDOCS

28449012 IOP requires a cache adaptor card but cannot find it.

Service Response:
The cache adapter card is missing or broken. Perform IOPIP29.

FRU List:
CACHE

28449013 The IOP and attached cache adaptor card are not compatible.

Service Response:
Perform IOPIP19.

FRU List:
SVCDOCS

28449020 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

28449021 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

28449022 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28449023 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28449024 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28449025 Disk unit is not supported at its physical location.

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

28449026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

28449027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

28449028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

28449029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

2844902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

28449030 **Array no longer protected due to missing or failed disk unit. Perform IOPIP21.**

FRU List:
SVCDOCS

28449031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

28449040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

28449041 **Background array parity check detected and corrected errors. Call your next level of support to report the problem.**

FRU List:
AJDGP01

28449050 **Required cache data cannot be located for a disk unit.**

Service Response:
Perform IOPIP30.

FRU List:
SVCDOCS

28449051 **IOP cache data exists for a missing or failed device.**

Service Response:
If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

28449052 **Cache data exists for device that has been modified.**

Service Response:
Perform IOPIP28.

FRU List:
SVCDOCS

28449053 **IOP resources not available due to previous problems.**

Service Response:
Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

28449054 **IOP resources not available due to previous problems.**

Service Response:
Power off the system and remove all new or replacement disk units. IPL the system to DST. If you

cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

28449081 I/O processor card detected device error

FRU List:
FI01105

STORIOA

28449082 I/O processor card detected device error

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

28449090 Disk unit has been modified after the last known status.

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

28449091 Incorrect hardware configuration change has been detected.

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

28449092 Disk unit requires initialization before use.

Servicer Response:
Perform IOPIP26.

FRU List:

SVCDOCS

2844B3B1 A permanent I/O processor failure occurred

FRU List:
IOP

2844B3B2 A permanent I/O processor failure occurred

FRU List:
IOP

2844B3B3 A permanent I/O processor failure occurred

FRU List:
IOP

2844B3B4 A permanent I/O processor failure occurred

FRU List:
IOP

2844B3B5 A permanent I/O processor failure occurred

FRU List:
IOP

2844B3B6 A permanent I/O processor failure occurred

FRU List:
IOP

2844B3B7 A permanent I/O processor failure occurred

FRU List:
IOP

2844B3B8 Multi-adapter bridge error detected.

FRU List:
MA_BRDG

IOP

2844B3B9 A permanent I/O processor failure occurred

FRU List:
IOP

2844B3E0 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

2844B3E1 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

2844B410 A permanent I/O processor failure occurred

FRU List:
STORIOA

2844B411 A permanent I/O processor failure occurred

FRU List:
STORIOA

2844B412 Tape/CD or disk bus interface error occurred

Service Response:
Perform IOPIP16.

FRU List:
FI01107

FI01140

STORIOA

DEVTERM

2844B935 Unknown hardware detected

FRU List:
FI01101

AJDGP01

IOP

MA_BRDG

2844BE00 I/O processor detected a fault condition.

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

2844FF3D I/O adapter detected a recoverable error

FRU List:
STORIOA

ANYBRDG

2844FF6D I/O processor detected a recoverable system bus error.

FRU List:
IOP

ANYBUS

284B0A17 A permanent I/O processor failure occurred

FRU List:
IOP

MA_BRDG

AJDGP01

AJDG301

284B0A22 I/O processor detected a storage transfer error

FRU List:
AJDGP01

AJDG301

IOP

MA_BRDG

284B102E Out of alternate sectors for disk storage

FRU List:
FI01105

284B1306 I/O processor card or Licensed Internal Code error

Service Response:
A microprocessor exception occurred on the I/O processor.

FRU List:
AJDGP01

IOP

FI01104

BACKPLN

284B1307 I/O processor resource not available**FRU List:**
AJDGP01

AJDG301

284B1310 I/O processor resource not available**Service Response:**

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

284B1317 I/O processor card error**Service Response:**

Display the Service ActionLog entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

284B2200 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

284B2201 Removable media error during IPL**FRU List:**
USER

FI01105

284B2202 Removable media error during IPL**FRU List:**
FI00022

FI01105

284B3000 A permanent I/O processor failure occurred**FRU List:**
FI01101

IOP

MA_BRDG

284B3001 Not valid condition in I/O Processor Licensed InternalCode**Service Response:**

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
IOP

AJDGP01

284B3002 Addressed device failed to respond to selection**Service Response:**

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

FI01141

FI01106

284B3006 System bus error**FRU List:**
IOP

ANYBUS

FI01101

284B3020 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

284B3021 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

284B3022 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

284B3023 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

284B3080 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

284B3081 System log entry only, no service action required.**284B3084 I/O processor card or Licensed Internal Code error****Servicer Response:**

A microprocessor exception occurred on the I/O processor.

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

284B3087 I/O processor resource not available**Servicer Response:**

The LicensedInternal Code could not allocate resources on the I/O processor card.

FRU List:
AJDGP01

AJDG301

IOACNFG

FI01104

284B3100 I/O processor card detected interface error**Servicer Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

DEVBPLN

284B3101 I/O processor card detected interface error**Servicer Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

DEVBPLN

284B3102 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

DEVBPLN

284B3103 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

DEVBPLN

284B3109 I/O processor timed out a device command**Service Response:**

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

284B3110 I/O processor card detected interface error**Service Response:**

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

284B3120 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

284B3121 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

284B3122 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

284B3123 I/O Processor detected that the bus is not operational**Service Response:**

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

284B3136 The removable media device is assigned elsewhere**FRU List:**

USER

FI01105

284B3140 I/O Processor detected that the bus is now operational**Service Response:**

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

284B3141 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

284B3142 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

284B3143 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

284B3150 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOS

284B3151 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOS

284B3200 **A tape/CD or disk device reported a failure**

FRU List:
FI01105

STORIOA

IOP

MEDIA

284B3203 **Disk media format bad**

FRU List:
FI01105

284B3205 **Disk sector read error**

Servicer Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

284B3215 **Disk sector read error**

Servicer Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

284B3250 **Disk unit requires initialization before use.**

Servicer Response:

Perform a D-IPL and work on errors found in the log.

FRU List:
USER

284B3300 **Storage unit detected a media problem**

Servicer Response:

Perform IOPIP01.

FRU List:
MEDIA

FI00121

FI01141

284B3400 **I/O processor card detected device error**

Servicer Response:

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:
FI02112

STORIOA

FI01106

DEVTERM

FI01140

284B3401 **Device backplane problem**
FRU List:
DEVBPLN

284B3501 **I/O processor Licensed Internal Code error**
FRU List:
AJDGP01

IOP

284B3600 **System log entry only, no service action required.**

284B3601 **System log entry only, no service action required.**

284B6070 **A permanent I/O processor failure occurred**
FRU List:
IOP

284B6071 **I/O processor Licensed Internal Code error**
FRU List:
AJDGP01

284B6072 **I/O processor Licensed Internal Code error**
FRU List:
AJDGP01

IOP

284B6073 **IPL device not ready**
FRU List:
MEDIA

FI01105

USER

284B6075 **I/O processor resource not available**
FRU List:
AJDGP01

284B6076 **I/O processor card detected media error**
FRU List:
MEDIA

AJDGP01

FI01105

284B6081 **I/O processor Licensed Internal Code error**
FRU List:
AJDGP01

IOP

284B6082 **I/O processor Licensed Internal Code error**
FRU List:
AJDGP01

IOP

284B6083 **I/O processor Licensed Internal Code error**
FRU List:
AJDGP01

IOP

284B6085 **I/O processor Licensed Internal Code error**
FRU List:
AJDGP01

IOP

MA_BRDG

284B6200 **A permanent IOA hardware error occurred**
FRU List:
FCIOA

OPT_CLN

284B6201 **IOA LID is not valid**
FRU List:
AJDGP01

284B6602 **An I/O processor Licensed Internal Code error occurred.**
FRU List:
AJDGP01

284B8000 A permanent IOP or cache adaptor card failure occurred.

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

284B8002 A permanent cache adaptor card failure occurred.

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

284B8004 Voltage drop detected on I/O processor 5 volt powersupply.

FRU List:
FI01141

STORIOA

284B8005 A recoverable IOP or cache adaptor card error occurred.

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

284B8007 A recoverable cache adaptor card error occurred.

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

284B8010 A permanent cache adaptor card failure occurred.

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

284B8011 A permanent cache adaptor card failure occurred.

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

284B8100 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

284B8130 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

284B8131 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

284B8132 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

284B8133 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

284B8140 IOA detected recoverable device bus error

Service Response:

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

284B8141 IOA detected recoverable device error

Service Response:

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

284B8145 A recoverable I/O processor error occurred.

FRU List:
STORIOA

284B8146 Disk device detected recoverable error

FRU List:
FI01105

284B8150 A permanent I/O processor failure occurred

FRU List:
STORIOA

ANYBRDG

284B8151 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

STORIOA

284B8155 A permanent I/O processor failure occurred

FRU List:
AJDGP01

STORIOA

284B8156 A permanent I/O processor failure occurred

FRU List:

AJDGP01

STORIOA

284B8157 I/O adapter card error

Service Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

284B8200 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

284B8300 I/O processor card or Licensed Internal Code error

Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
STORIOA

IOP

AJDGP01

284B8301 Not valid condition in I/O Processor Licensed Internal Code

Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
FI01101

AJDGP01

IOP

284B8400 I/O processor Licensed Internal Code error

FRU List:
 AJDGP01

284B9000 I/O processor card detected device error

FRU List:
 FI01105

STORIOA

284B9001 I/O processor card detected device configuration error

Service Response:
 Perform IOPIP33.

FRU List:
 SVCDOCS

284B9002 I/O processor card detected device error

Service Response:
 Perform IOPIP16.

FRU List:
 FI01105

STORIOA

FI01140

BACKPLN

FI01106

284B9008 I/O card does not support functions expected by devices

Service Response:
 Perform IOPIP25.

FRU List:
 SVCDOCS

284B9009 Call your next level of support for assistance

FRU List:
 SVCDOCS

284B9010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
 SVCDOCS

284B9011 Cache data belongs to devices other than those attached

Service Response:
 Perform IOPIP32.

FRU List:
 SVCDOCS

284B9012 IOP requires a cache adaptor card but cannot find it.

Service Response:
 The cache adapter card is missing or broken. Perform IOPIP29.

FRU List:
 CACHE

284B9013 The IOP and attached cache adaptor card are not compatible.

Service Response:
 Perform IOPIP19.

FRU List:
 SVCDOCS

284B9020 Array not functional due to present hardware configuration.

Service Response:
 Perform IOPIP20.

FRU List:
 SVCDOCS

284B9021 Array not functional due to present hardware configuration.

Service Response:
 Perform IOPIP20.

FRU List:
 SVCDOCS

284B9022 Array not functional due to present hardware configuration.

Service Response:
 Perform IOPIP22.

FRU List:
 SVCDOCS

284B9023 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

284B9024 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

284B9025 **Disk unit is not supported at its physical location.**

Servicer Response:
Perform IOPIP21.

FRU List:
SVCDOCS

284B9026 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

284B9027 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP34.

FRU List:
SVCDOCS

284B9028 **Incorrect hardware configuration change has been detected.**

Servicer Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

284B9029 **Incorrect hardware configuration change has been detected.**

Servicer Response:
Contact your next level of support.

FRU List:
SVCDOCS

284B902F **Array addendum Product Activity Log entry**

Servicer Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

284B9030 **Array no longer protected due to missing or failed disk unit. Perform IOPIP21.**

FRU List:
SVCDOCS

284B9031 **Array protection temporarily suspended**

Servicer Response:
No action required. Protection will be automatically restarted.

284B9040 **Array protection temporarily suspended**

Servicer Response:
No action required. Protection will be automatically restarted.

284B9041 **Background array parity check detected and corrected errors. Call your next level of support to report the problem.**

FRU List:
AJDGP01

284B9050 **Required cache data cannot be located for a disk unit.**

Servicer Response:
Perform IOPIP30.

FRU List:
SVCDOCS

284B9051 **IOP cache data exists for a missing or failed device.**

Servicer Response:
If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

284B9052 **Cache data exists for device that has been modified.**

Servicer Response:
Perform IOPIP28.

FRU List:
SVCDOS

284B9053 **IOP resources not available due to previous problems.**

Servicer Response:
Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOS

284B9054 **IOP resources not available due to previous problems.**

Servicer Response:
Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOS

284B9081 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

284B9082 **I/O processor card detected device error**

Servicer Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

284B9090 **Disk unit has been modified after the last known status.**

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOS

284B9091 **Incorrect hardware configuration change has been detected.**

Servicer Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOS

284B9092 **Disk unit requires initialization before use.**

Servicer Response:
Perform IOPIP26.

FRU List:
SVCDOS

284BB3B1 **A permanent I/O processor failure occurred**

FRU List:
IOP

284BB3B2 **A permanent I/O processor failure occurred**

FRU List:
IOP

284BB3B3 **A permanent I/O processor failure occurred**

FRU List:
IOP

284BB3B4 **A permanent I/O processor failure occurred**

FRU List:
IOP

284BB3B5 A permanent I/O processor failure occurred

FRU List:
IOP

284BB3B6 A permanent I/O processor failure occurred

FRU List:
IOP

284BB3B7 A permanent I/O processor failure occurred

FRU List:
IOP

284BB3B8 Multi-adapter bridge error detected.

FRU List:
MA_BRDG

IOP

284BB3B9 A permanent I/O processor failure occurred

FRU List:
IOP

284BB3E0 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

284BB3E1 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

284BB410 A permanent I/O processor failure occurred

FRU List:
STORIOA

284BB411 A permanent I/O processor failure occurred

FRU List:
STORIOA

284BB412 Tape/CD or disk bus interface error occurred

Servicer Response:
Perform IOPIP16.

FRU List:
FI01107

FI01140

STORIOA

DEVTERM

284BB935 Unknown hardware detected

FRU List:
FI01101

AJDGP01

IOP

MA_BRDG

284BBE00 I/O processor detected a fault condition.

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

284BFF3D I/O adapter detected a recoverable error

FRU List:
STORIOA

ANYBRDG

284BFF6D I/O processor detected a recoverable system bus error.

FRU List:
IOP

ANYBUS

(2750, 2751) Reference codes

(2750, 2751) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address.

2750B980 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

2751B980 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

2750B981 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

2751B981 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

2750B982 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

2751B982 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

2750B983 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

2751B983 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

(2761) Reference codes

(2761) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address.

2761B980 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

FI00719

FI00730

2761B981 **I/O adapter hardware error detected**

FRU List:

2761B982 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00730

2761B983 I/O adapter hardware error detected

FI00730

FRU List:
 FI00719

(2765, 2766, 2787, 280D, 280E) Reference Codes

(2765, 2766, 2787, 280D, 280E) Reference Codes

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1.

27653020 I/O processor detected a configuration error
Service Response:

Eithertoo many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

FRU List:
 SVCDOCS

ANYFC

FCIOA

OPT_CLN

27653100 I/O processor card detected interface error

FRU List:
 FCINTF

ANYFC

FCIOA

OPT_CLN

276534FF Format in progress
Service Response:

The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

27658130 Recovered Fibre Channel interface error
Service Response:

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

27658140 Recovered Fibre Channel interface error
Service Response:

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

27658141 IOA detected recoverable device error
Service Response:

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

27658145 A recoverable I/O processor error occurred.

FRU List:
 FCIOA

OPT_CLN

27658146 Disk device detected recoverable error

FRU List:
 FCDEV

27658150 A permanent I/O processor failure occurred

27653120 I/O processor detected a port failure

FRU List:
 FCPORT

FCIOA

FCDEV

OPT_CLN

27653140 I/O Processor detected that a port is now operational
Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

27653400 I/O processor card detected device error

FRU List:
 FCDEV

FCINTF

FRU List:
FCIOA

ANYBRDG

OPT_CLN

27658151 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

FCIOA

IOP

OPT_CLN

27658155 A permanent I/O processor failure occurred

FRU List:
AJDGP01

FCIOA

OPT_CLN

27658156 A permanent I/O processor failure occurred

FRU List:
AJDGP01

FCIOA

OPT_CLN

27659091 Incorrect hardware configuration change has been detected.

Service Response:

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27659092 Incorrect hardware configuration change has been detected.

Service Response:

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O

processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

2765FF3D Recovered IOA error

FRU List:
FCIOA

ANYBRDG

OPT_CLN

27663020 I/O processor detected a configuration error

Service Response:

Eithertoo many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

FRU List:
SVCDOCS

27663100 I/O processor card detected interface error

FRU List:
FCINTF

ANYFC

FCIOA

OPT_CLN

27663120 I/O processor detected a port failure

FRU List:
FCPORT

FCIOA

FCDEV

OPT_CLN

27663140 I/O Processor detected that a port is now operational

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

27663400 I/O processor card detected device error**FRU List:**
FCDEV

FCINTF

ANYFC

FCIOA

OPT_CLN

276634FF Format in progress**Service Response:**

The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

27668130 Recovered Fibre Channel interface error**Service Response:**

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

27668140 Recovered Fibre Channel interface error**Service Response:**

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

27668141 IOA detected recoverable device error**Service Response:**

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

27668145 A recoverable I/O processor error occurred.**FRU List:**
FCIOAOPT_CLN

27668146 Disk device detected recoverable error**FRU List:**
FCDEV

27668150 A permanent I/O processor failure occurred**FRU List:**
FCIOAANYBRDG

OPT_CLN

27668151 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

FCIOA

IOP

OPT_CLN

27668155 A permanent I/O processor failure occurred**FRU List:**
AJDGP01

FCIOA

OPT_CLN

27668156 A permanent I/O processor failure occurred**FRU List:**
AJDGP01

FCIOA

OPT_CLN

27669091 Incorrect hardware configuration change has been detected.**Service Response:**

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

27669092 Incorrect hardware configuration change has been detected.**Service Response:**

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

2766FF3D Recovered IOA error**FRU List:**
FCIOA

ANYBRDG

OPT_CLN

27873020 I/O processor detected a configuration error**Service Response:**

Eithertoo many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

FRU List:
SVCDOCS

27873100 I/O processor card detected interface error**FRU List:**
FCINTF

ANYFC

FCIOA

OPT_CLN

27873120 I/O processor detected a port failure**FRU List:**
FCPORT

FCIOA

FCDEV

OPT_CLN

27873140 I/O Processor detected that a port is now operational**Service Response:**

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

27873400 I/O processor card detected device error**FRU List:**
FCDEV

FCINTF

ANYFC

FCIOA

OPT_CLN

278734FF Format in progress**Service Response:**

The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

27878130 Recovered Fibre Channel interface error**Service Response:**

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

27878140 Recovered Fibre Channel interface error**Service Response:**

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

27878141 IOA detected recoverable device error**Service Response:**

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

27878145 A recoverable I/O processor error occurred.**FRU List:**
FCIOAOPT_CLN

27878146 Disk device detected recoverable error**FRU List:**
FCDEV

27878150 A permanent I/O processor failure occurred**FRU List:**
FCIOA

ANYBRDG

OPT_CLN

27878151 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

FCIOA

IOP

OPT_CLN

27878155 A permanent I/O processor failure occurred
FRU List:
 AJDGP01

FCIOA

OPT_CLN

27878156 A permanent I/O processor failure occurred
FRU List:
 AJDGP01

FCIOA

OPT_CLN

27879091 Incorrect hardware configuration change has been detected.
Service Response:

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
 SVCDOCS

27879092 Incorrect hardware configuration change has been detected.
Service Response:

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
 SVCDOCS

2787FF3D Recovered IOA error
FRU List:
 FCIOA

ANYBRDG

OPT_CLN

280D3020 I/O processor detected a configuration error
Service Response:

Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

FRU List:
 SVCDOCS

280D3100 I/O processor card detected interface error
FRU List:
 FCINTF

ANYFC

FCIOA

OPT_CLN

280D3120 I/O processor detected a port failure
FRU List:
 FCPORT

FCIOA

FCDEV

OPT_CLN

280D3140 I/O Processor detected that a port is now operational
Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

280D3400 I/O processor card detected device error
FRU List:
 FCDEV

FCINTF

ANYFC

FCIOA

OPT_CLN

280D34FF Format in progress**Service Response:**

The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

280D8130 Recovered Fibre Channel interface error**Service Response:**

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

280D8140 Recovered Fibre Channel interface error**Service Response:**

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

280D8141 IOA detected recoverable device error**Service Response:**

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

280D8145 A recoverable I/O processor error occurred.

FRU List:
FCIOA

OPT_CLN

280D8146 Disk device detected recoverable error

FRU List:
FCDEV

280D8150 A permanent I/O processor failure occurred

FRU List:
FCIOA

ANYBRDG

OPT_CLN

280D8151 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

FCIOA

IOP

OPT_CLN

280D8155 A permanent I/O processor failure occurred

FRU List:
AJDGP01

FCIOA

OPT_CLN

280D8156 A permanent I/O processor failure occurred

FRU List:
AJDGP01

FCIOA

OPT_CLN

280D9091 Incorrect hardware configuration change has been detected.**Service Response:**

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

280D9092 Incorrect hardware configuration change has been detected.**Service Response:**

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

280DFF3D Recovered IOA error

FRU List:
FCIOA

ANYBRDG

OPT_CLN

280E3020 I/O processor detected a configuration error**Service Response:**

Eithertoo many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

FRU List:
SVCDOCS

280E3100 I/O processor card detected interface error

FRU List:
FCINTF

ANYFC

FCIOA

OPT_CLN

280E3120 I/O processor detected a port failure

FRU List:
FCPORT

FCIOA

FCDEV

OPT_CLN

280E3140 I/O Processor detected that a port is now operational

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

280E3400 I/O processor card detected device error

FRU List:
FCDEV

FCINTF

ANYFC

FCIOA

OPT_CLN

280E34FF Format in progress

Service Response:

The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

280E8130 Recovered Fibre Channel interface error

Service Response:

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

280E8140 Recovered Fibre Channel interface error

Service Response:

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

280E8141 IOA detected recoverable device error

Service Response:

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

280E8145 A recoverable I/O processor error occurred.

FRU List:
FCIOA

OPT_CLN

280E8146 Disk device detected recoverable error

FRU List:
FCDEV

280E8150 A permanent I/O processor failure occurred

FRU List:
FCIOA

ANYBRDG

OPT_CLN

280E8151 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

FCIOA

IOP

OPT_CLN

280E8155 A permanent I/O processor failure occurred

FRU List:
AJDGP01

FCIOA

OPT_CLN

280E8156 **A permanent I/O processor failure occurred**
FRU List:
 AJDGP01

FCIOA

OPT_CLN

280E9091 **Incorrect hardware configuration change has been detected.**
Service Response:

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
 SVCDOCS

280E9092 **Incorrect hardware configuration change has been detected.**
Service Response:

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
 SVCDOCS

280EFF3D **Recovered IOA error**
FRU List:
 FCIOA

ANYBRDG

OPT_CLN

57043020 **I/O processor detected a configuration error**
Service Response:

Eithertoo many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

FRU List:
 SVCDOCS

57043100 **I/O processor card detected interface error**
FRU List:
 FCINTF

ANYFC

FCIOA

OPT_CLN

57043120 **I/O processor detected a port failure**
FRU List:
 FCPORT

FCIOA

FCDEV

OPT_CLN

57043140 **I/O Processor detected that a port is now operational**
Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

57043400 **I/O processor card detected device error**
FRU List:
 FCDEV

FCINTF

ANYFC

FCIOA

OPT_CLN

570434FF **Format in progress**
Service Response:

The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

57048130 **Recovered Fibre Channel interface error**
Service Response:

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

57048140 Recovered Fibre Channel interface error**Servicer Response:**

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

57048141 IOA detected recoverable device error**Servicer Response:**

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

57048145 A recoverable I/O processor error occurred.**FRU List:**

FCIOA

OPT_CLN

57048146 Disk device detected recoverable error**FRU List:**

FCDEV

57048150 A permanent I/O processor failure occurred**FRU List:**

FCIOA

ANYBRDG

OPT_CLN

57048151 I/O processor Licensed Internal Code error**FRU List:**

AJDGP01

FCIOA

IOP

OPT_CLN

57048155 A permanent I/O processor failure occurred**FRU List:**

AJDGP01

FCIOA

OPT_CLN

57048156 A permanent I/O processor failure occurred**FRU List:**

AJDGP01

FCIOA

OPT_CLN

57049091 Incorrect hardware configuration change has been detected.**Servicer Response:**

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:

SVCDOS

57049092 Incorrect hardware configuration change has been detected.**Servicer Response:**

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:

SVCDOS

5704FF3D Recovered IOA error**FRU List:**

FCIOA

ANYBRDG

OPT_CLN

(2771, 2772) Reference codes

(2771, 2772) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address.

2771B904 **I/O adapter Licensed Internal Code failed.**

FRU List:
AJDGP01

FI00719

2772B904 **I/O adapter Licensed Internal Code failed.**

FRU List:
AJDGP01

FI00719

2771B934 **Incompatible hardware detected.**

FRU List:
FI00719

FI00718

2772B934 **Incompatible hardware detected.**

FRU List:
FI00719

FI00718

2771B940 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00718

AJDGP01

MA_BRDG

2772B940 **I/O adapter hardware error detected**

FRU List:
FI00719

FI00718

AJDGP01

MA_BRDG

2771B941 **One half of I/O adapter failed.**

FRU List:
FI00719

FI00718

AJDGP01

2772B941 **One half of I/O adapter failed.**

FRU List:
FI00719

FI00718

AJDGP01

2771B942 **One half of I/O adapter failed.**

FRU List:
FI00719

FI00718

AJDGP01

2772B942 **One half of I/O adapter failed.**

FRU List:
FI00719

FI00718

AJDGP01

(2803) Model 185 and A50 reference (error) codes

Model 185 and A50 reference (error) codes

28030001 **Real-time-clock not updating;**

real-time-clock initializationrequired.

Servicer Response:

Set the time and date.

Note: This is normally an informational message. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

28030002 Bad time/date values**Servicer Response:**

Set the time and date.

Note: This is normally an informational message. If the problem persists, replace the system backplane.

FRU List:

SYSBKP2

28030003 Real-time-clock not updating; not correctable.**Servicer Response:**

Replace the system backplane.

FRU List:

SYSBKP2

28030004 Real-time-clock operating mode parameters (for example, data mode) changed.**Servicer Response:**

Do the following:

1. Set the time and date.

2. Refer to the actions under 28030001.

28030005 Real-time-clock battery error**Servicer Response:**

Replace the system backplane.

FRU List:

SYSBKP2

2803000A The hypervisor function to get or set the time-of-day (TOD) reported an error.**Servicer Response:**

Errors reported against the real timeclock might be caused by low battery voltage or (more rarely) power outages that occur during normal system usage. These errors are warnings that the real time clock data content needs to be reestablished. Unless the error is persistent, these errors do not require any FRU replacement. When one of these errors occurs, the system loses time and date information.

Reset the server time and date through the installed operating system.

If the error is persistent, do the following:

1. Check for system firmware updates, and apply if available.
2. Replace the system battery.
3. Replace the system backplane.

FRU List:

SYSBKP2

(281x) Reference codes

(281x) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBB Ccbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address.

281xB910 I/O adapter hardware error detected

FI00730

FRU List:

FI00719

FI00718

(2838, 2849) Reference codes

(2838, 2849) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.

2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address.

2838B904	I/O adapter Licensed Internal Code failed.	2849B904	I/O adapter Licensed Internal Code failed.
FRU List: AJDGP01		FRU List: AJDGP01	
FI00719		FI00719	
2838B930	I/O adapter Licensed Internal Code failed.	2849B930	I/O adapter Licensed Internal Code failed.
FRU List: AJDGP01		FRU List: AJDGP01	
FI00718		FI00718	
FI00719		FI00719	
2838B931	I/O adapter hardware error detected	2849B931	I/O adapter hardware error detected
FRU List: FI00719		FRU List: FI00719	
FI00718		FI00718	
AJDGP01		AJDGP01	
MA_BRDG		MA_BRDG	
2838B933	Incompatible hardware detected.	2849B933	Incompatible hardware detected.
FRU List: FI00719		FRU List: FI00719	
AJDGP01		AJDGP01	

(283C, 283D, 283F, 28B9, 28CB, 28CC, 28D2, 28DB, 28DF) Device backplane reference codes

Device backplane reference codes

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1.

Note: The 673x is a read cache. Perform all actions required for 673x as a disk drive and logic card except where separate 673x cache instructions are provided.

283C1511	A non-fatal error occurred on power supply 1	DISKFAN
FRU List: DISKPWR		FI01106
		DEVBPLN

283C1515 • 283D1511

283C1515 A fatal error occurred on power supply 1

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

283C1521 A non-fatal error occurred on power supply 2

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

283C1525 A fatal error occurred on power supply 2

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

283C3002 Addressed device backplane failed to respond to selection.

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

283C3109 I/O adapter timed out a device backplane command.

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

283C7611 A fatal error occurred on redundant fan 1

FRU List:
DISKFAN

283C7614 A fatal error occurred on fan 1

FRU List:
DISKFAN

283C7621 A fatal error occurred on redundant fan 2

FRU List:
DISKFAN

283C7624 A fatal error occurred on fan 2

FRU List:
DISKFAN

283C7631 A fatal error occurred on redundant fan 3

FRU List:
DISKFAN

283C7634 A fatal error occurred on fan 3

FRU List:
DISKFAN

283C8401 Removable media power fault

FRU List:
DEVBPLN

283C8404 System log entry only, no service action required

283CFFF4 Device backplane problem

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

283D1511 A non-fatal error occurred on power supply 1

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

283D1515 **A fatal error occurred on power supply 1**
FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

283D1521 **A non-fatal error occurred on power supply 2**
FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

283D1525 **A fatal error occurred on power supply 2**
FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

283D3002 **Addressed device backplane failed to respond to selection**
FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

283D3109 **I/O adapter timed out a device backplane command**
FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

283D7611 **A fatal error occurred on redundant fan 1**
FRU List:
DISKFAN

283D7614 **A fatal error occurred on fan 1**
FRU List:
DISKFAN

283D7621 **A fatal error occurred on redundant fan 2**
FRU List:
DISKFAN

283D7624 **A fatal error occurred on fan 2**
FRU List:
DISKFAN

283D7631 **A fatal error occurred on redundant fan 3**
FRU List:
DISKFAN

283D7634 **A fatal error occurred on fan 3**
FRU List:
DISKFAN

283D8401 **Removable media power fault**
FRU List:
DEVBPLN

283D8404 **System log entry only, no service action required**

283DFFF4 **Device backplane problem**
FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

283F1511	A non-fatal error occurred on power supply 1
FRU List:	
DISKPWR	
DISKFAN	
FI01106	
DEVBPLN	
283F1515	A fatal error occurred on power supply 1
FRU List:	
DISKPWR	
DISKFAN	
FI01106	
DEVBPLN	
283F1521	A non-fatal error occurred on power supply 2
FRU List:	
DISKPWR	
DISKFAN	
FI01106	
DEVBPLN	
283F1525	A fatal error occurred on power supply 2
FRU List:	
DISKPWR	
DISKFAN	
FI01106	
DEVBPLN	
283F3002	Addressed device backplane failed to respond to selection
FRU List:	
DEVBPLN	
STORIOA	
FI01140	
FI01106	

283F3109	I/O adapter timed out a device backplane command
FRU List:	
DEVBPLN	
STORIOA	
FI01140	
FI01106	
283F7611	A fatal error occurred on redundant fan 1
FRU List:	
DISKFAN	
283F7614	A fatal error occurred on fan 1
FRU List:	
DISKFAN	
283F7621	A fatal error occurred on redundant fan 2
FRU List:	
DISKFAN	
283F7624	A fatal error occurred on fan 2
FRU List:	
DISKFAN	
283F7631	A fatal error occurred on redundant fan 3
FRU List:	
DISKFAN	
283F7634	A fatal error occurred on fan 3
FRU List:	
DISKFAN	
283F8401	Removable media power fault
FRU List:	
DEVBPLN	
283F8404	System log entry only, no service action required
283FFFF4	Device backplane problem
FRU List:	
DEVBPLN	
STORIOA	

FI01140

FI01106

28B91511 **A non-fatal error occurred on power supply 1**
FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28B91515 **A fatal error occurred on power supply 1**
FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28B91521 **A non-fatal error occurred on power supply 2**
FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28B91525 **A fatal error occurred on power supply 2**
FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28B93002 **Addressed device backplane failed to respond to selection**
FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28B93109 **I/O adapter timed out a device backplane command**
FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28B97611 **A fatal error occurred on redundant fan 1**
FRU List:
DISKFAN

28B97614 **A fatal error occurred on fan 1**
FRU List:
DISKFAN

28B97621 **A fatal error occurred on redundant fan 2**
FRU List:
DISKFAN

28B97624 **A fatal error occurred on fan 2**
FRU List:
DISKFAN

28B97631 **A fatal error occurred on redundant fan 3**
FRU List:
DISKFAN

28B97634 **A fatal error occurred on fan 3**
FRU List:
DISKFAN

28B98401 **Removable media power fault**
FRU List:
DEVBPLN

28B98404 **System log entry only, no service action required**

28B9FFF4 Device backplane problem**FRU List:**
DEVBPLN

STORIOA

FI01140

FI01106

28CB1511 A non-fatal error occurred on power supply 1**FRU List:**
DISKPWR

DISKFAN

FI01106

DEVBPLN

28CB1515 A fatal error occurred on power supply 1**FRU List:**
DISKPWR

DISKFAN

FI01106

DEVBPLN

28CB1521 A non-fatal error occurred on power supply 2**FRU List:**
DISKPWR

DISKFAN

FI01106

DEVBPLN

28CB1525 A fatal error occurred on power supply 2**FRU List:**
DISKPWR

DISKFAN

FI01106

DEVBPLN

28CB3002 Addressed device backplane failed to respond to selection**FRU List:**
DEVBPLN

STORIOA

FI01140

FI01106

28CB3109 I/O adapter timed out a device backplane command**FRU List:**
DEVBPLN

STORIOA

FI01140

FI01106

28CB7611 A fatal error occurred on redundant fan 1**FRU List:**
DISKFAN

28CB7614 A fatal error occurred on fan 1**FRU List:**
DISKFAN

28CB7621 A fatal error occurred on redundant fan 2**FRU List:**
DISKFAN

28CB7624 A fatal error occurred on fan 2**FRU List:**
DISKFAN

28CB7631 A fatal error occurred on redundant fan 3**FRU List:**
DISKFAN

28CB7634 A fatal error occurred on fan 3**FRU List:**
DISKFAN

28CB8401	Removable media power fault
FRU List: DEVBPLN	
28CB8404	System log entry only, no service action required
28CBFFF4	Device backplane problem
FRU List: DEVBPLN	
STORIOA	
FI01140	
FI01106	
28CC1511	A non-fatal error occurred on power supply 1
FRU List: DISKPWR	
DISKFAN	
FI01106	
DEVBPLN	
28CC1515	A fatal error occurred on power supply 1
FRU List: DISKPWR	
DISKFAN	
FI01106	
DEVBPLN	
28CC1521	A non-fatal error occurred on power supply 2
FRU List: DISKPWR	
DISKFAN	
FI01106	
DEVBPLN	

28CC1525	A fatal error occurred on power supply 2
FRU List: DISKPWR	
DISKFAN	
FI01106	
DEVBPLN	
28CC3002	Addressed device backplane failed to respond to selection
FRU List: DEVBPLN	
STORIOA	
FI01140	
FI01106	
28CC3109	I/O adapter timed out a device backplane command
FRU List: DEVBPLN	
STORIOA	
FI01140	
FI01106	
28CC7611	A fatal error occurred on redundant fan 1
FRU List: DISKFAN	
28CC7614	A fatal error occurred on fan 1
FRU List: DISKFAN	
28CC7621	A fatal error occurred on redundant fan 2
FRU List: DISKFAN	
28CC7624	A fatal error occurred on fan 2
FRU List: DISKFAN	

28CC7631 **A fatal error occurred on redundant fan 3**

FRU List:
DISKFAN

28CC7634 **A fatal error occurred on fan 3**

FRU List:
DISKFAN

28CC8401 **Removable media power fault**

FRU List:
DEVBPLN

28CC8404 **System log entry only, no service action required**

28CCFF4 **Device backplane problem**

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28D21511 **A non-fatal error occurred on power supply 1**

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28D21515 **A fatal error occurred on power supply 1**

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28D21521 **A non-fatal error occurred on power supply 2**

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28D21525 **A fatal error occurred on power supply 2**

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28D23002 **Addressed device backplane failed to respond to selection**

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28D23109 **I/O adapter timed out a device backplane command**

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28D27611 **A fatal error occurred on redundant fan 1**

FRU List:
DISKFAN

28D27614 **A fatal error occurred on fan 1**

FRU List:
DISKFAN

28D27621	A fatal error occurred on redundant fan 2
FRU List:	
DISKFAN	
28D27624	A fatal error occurred on fan 2
FRU List:	
DISKFAN	
28D27631	A fatal error occurred on redundant fan 3
FRU List:	
DISKFAN	
28D27634	A fatal error occurred on fan 3
FRU List:	
DISKFAN	
28D28401	Removable media power fault
FRU List:	
DEVBPLN	
28D28404	System log entry only, no service action required
28D2FFF4	Device backplane problem
FRU List:	
DEVBPLN	
STORIOA	
FI01140	
FI01106	
28DB1511	A non-fatal error occurred on power supply 1
FRU List:	
DISKPWR	
DISKFAN	
FI01106	
DEVBPLN	
28DB1515	A fatal error occurred on power supply 1
FRU List:	
DISKPWR	

DISKFAN

FI01106

DEVBPLN

28DB1521 **A non-fatal error occurred on power supply 2**
FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28DB1525 **A fatal error occurred on power supply 2**
FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28DB3002 **Addressed device backplane failed to respond to selection**
FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28DB3109 **I/O adapter timed out a device backplane command**
FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28DB7611 A fatal error occurred on redundant fan 1

FRU List:
DISKFAN

28DB7614 A fatal error occurred on fan 1

FRU List:
DISKFAN

28DB7621 A fatal error occurred on redundant fan 2

FRU List:
DISKFAN

28DB7624 A fatal error occurred on fan 2

FRU List:
DISKFAN

28DB7631 A fatal error occurred on redundant fan 3

FRU List:
DISKFAN

28DB7634 A fatal error occurred on fan 3

FRU List:
DISKFAN

28DB8401 Removable media power fault

FRU List:
DEVBPLN

28DB8404 System log entry only, no service action required

28DBFFF4 Device backplane problem

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28DF1511 A non-fatal error occurred on power supply 1

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28DF1515 A fatal error occurred on power supply 1

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28DF1521 A non-fatal error occurred on power supply 2

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28DF1525 A fatal error occurred on power supply 2

FRU List:
DISKPWR

DISKFAN

FI01106

DEVBPLN

28DF3002 Addressed device backplane failed to respond to selection

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28DF3109 I/O adapter timed out a device backplane command

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

28DF7611 A fatal error occurred on redundant fan 1

FRU List:
DISKFAN

28DF7614 A fatal error occurred on fan 1

FRU List:
DISKFAN

28DF7621 A fatal error occurred on redundant fan 2

FRU List:
DISKFAN

28DF7624 A fatal error occurred on fan 2

FRU List:
DISKFAN

28DF7631 A fatal error occurred on redundant fan 3

FRU List:
DISKFAN

28DF7634 A fatal error occurred on fan 3

FRU List:
DISKFAN

28DF8401 Removable media power fault

FRU List:
DEVBPLN

28DF8404 System log entry only, no service action required

28DFFFF4 Device backplane problem

FRU List:
DEVBPLN

STORIOA

FI01140

FI01106

(2847) Reference codes

(2847) Reference codes

If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.

28470A17 A permanent I/O processor failure occurred

FRU List:
IOP

MA_BRDG

AJDGP01

AJDG301

28470A22 I/O processor detected a storage transfer error

FRU List:
AJDGP01

AJDG301

IOP

MA_BRDG

28471307 I/O processor resource not available

FRU List:
AJDGP01

AJDG301

28471310 I/O processor resource not available

Service Response:

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

28473000 A permanent I/O processor failure occurred

FRU List:
FCIOA

IOP

MA_BRDG

OPT_CLN

**28473001 Not valid condition in I/O Processor
Licensed Internal Code**
Servicer Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:

IOP

AJDGP01

28473002 Addressed device is not responding
FRU List:

FCPORT

FCDEV

FCIOA

FCINTF

OPT_CLN

28473006 System bus error
FRU List:

IOP

ANYBUS

FCIOA

OPT_CLN

**28473080 I/O processor Licensed Internal Code
error**
FRU List:

AJDGP01

**28473081 System log entry only, no service action
required**

**28473084 I/O processor card or Licensed Internal
Code error**
Servicer Response:

A microprocessor exception occurred on the I/O processor.

FRU List:

AJDGP01

IOP

FCIOA

MA_BRDG

OPT_CLN

28473087 I/O processor resource not available
Servicer Response:

The Licensed Internal Code could not allocate resources on the I/O processor card.

FRU List:

AJDGP01

AJDG301

FCIOA

OPT_CLN

**28473100 I/O processor card detected interface
error**
FRU List:

FCINTF

ANYFC

FCIOA

OPT_CLN

**28473109 I/O processor timed out a device
command**
FRU List:

FCDEV

FCINTF

FCIOA

OPT_CLN

28473120 I/O processor detected a port failure
FRU List:

FCPORT

FCIOA

FCDEV

OPT_CLN

28473200 A disk device reported a failure

FRU List:
FCDEV

FCIOA

IOP

OPT_CLN

28473501 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

28476070 A permanent I/O processor failure occurred

FRU List:
IOP

28476071 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

28476072 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

28476075 I/O processor resource not available

FRU List:
AJDGP01

28476076 I/O processor card detected media error

FRU List:
AJDG301

AJDGP01

FCDEV

28476081 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

28476082 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

28476083 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

28476085 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

MA_BRDG

28476200 A permanent IOA hardware error occurred

FRU List:
FCIOA

OPT_CLN

28476201 IOA LID is not valid

FRU List:
AJDGP01

28478100 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

28478150 A permanent I/O processor failure occurred

FRU List:
FCIOA

ANYBRDG

OPT_CLN

28478155 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

FCIOA

OPT_CLN

28478156 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

FCIOA

OPT_CLN

28478200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

28478300 **I/O processor card or Licensed Internal Code error**

Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
FCIOA

IOP

AJDGP01

OPT_CLN

28478301 **Not valid condition in I/O Processor Licensed Internal Code**

Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
FCIOA

AJDGP01

IOP

OPT_CLN

2847B3B1 **A permanent I/O processor failure occurred**

FRU List:
IOP

2847B3B2 **A permanent I/O processor failure occurred**

FRU List:
IOP

2847B3B3 **A permanent I/O processor failure occurred**

FRU List:
IOP

2847B3B4 **A permanent I/O processor failure occurred**

FRU List:
IOP

2847B3B5 **A permanent I/O processor failure occurred**

FRU List:
IOP

2847B3B6 **A permanent I/O processor failure occurred**

FRU List:
IOP

2847B3B7 **A permanent I/O processor failure occurred**

FRU List:
IOP

2847B3B8 **Multi-adapter bridge error detected.**

FRU List:
MA_BRDG

IOP

2847B3E0 **I/O processor detected a fault condition.**

FRU List:
IOP

MA_BRDG

2847B3E1 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

2847B935 Unknown hardware detected

FRU List:
FCIOA

AJDGP01

IOP

MA_BRDG

OPT_CLN

2847BE00 I/O processor detected a fault condition.

FRU List:
AJDGP01

IOP

FCIOA

MA_BRDG

OPT_CLN

(2875, 2876, 293C, 293D) Device backplane reference codes

(2875, 2876, 293C, 293D) Device backplane reference codes

28751511 A non-fatal error occurred on power supply

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

FRU List:

DISKPWR

DEVBPLN

SASEXP

28751525 A fatal error occurred on power supply 2

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

28751515 A non-fatal error occurred on power supply 1

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

28753002 Addressed device backplane failed to respond to selection

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

28751521 A non-fatal error occurred on power supply 2

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

SASCABL

STORIOA

DEVBPLN

28753109 I/O adapter timed out a device backplane command
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

28757614 A fatal error occurred on fan 1
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

28757624 A fatal error occurred on fan 2
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

28757634 A fatal error occurred on fan 3
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

28757644 A fatal error occurred on fan 4
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

28758401 Removable media power fault
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DEVBPLN

28758404 System log entry only, no service action required

2875FFF4 Device backplane problem
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

28761511 A non-fatal error occurred on power supply
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

28761515 **A non-fatal error occurred on power supply 1**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

SASCABL

STORIOA

DEVBPLN

28761521 **A non-fatal error occurred on power supply 2**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

28763109 **I/O adapter timed out a device backplane command**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

28761525 **A fatal error occurred on power supply 2**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

28767614 **A fatal error occurred on fan 1**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

28767624 **A fatal error occurred on fan 2**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

28763002 **Addressed device backplane failed to respond to selection**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

28767634 **A fatal error occurred on fan 3**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

28767644 A fatal error occurred on fan 4**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

28768401 Removable media power fault**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DEVBPLN

28768404 System log entry only, no service action required

2876FFF4 Device backplane problem**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

293C1511 A non-fatal error occurred on power supply**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

293C1515 A non-fatal error occurred on power supply 1**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

293C1521 A non-fatal error occurred on power supply 2**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

293C1525 A fatal error occurred on power supply 2**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

293C3002 Addressed device backplane failed to respond to selection**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

293C3109 I/O adapter timed out a device backplane command
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

293C7614 A fatal error occurred on fan 1
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

293C7624 A fatal error occurred on fan 2
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

293C7634 A fatal error occurred on fan 3
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

293C7644 A fatal error occurred on fan 4
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

293C8401 Removable media power fault
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DEVBPLN

293C8404 System log entry only, no service action required

293CFFF4 Device backplane problem
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

293D1511 A non-fatal error occurred on power supply
Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

293D1515 **A non-fatal error occurred on power supply 1**

Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

293D1521 **A non-fatal error occurred on power supply 2**

Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

293D1525 **A fatal error occurred on power supply 2**

Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

293D3002 **Addressed device backplane failed to respond to selection**

Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

293D3109 **I/O adapter timed out a device backplane command**

Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

293D7614 **A fatal error occurred on fan 1**

Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

293D7624 **A fatal error occurred on fan 2**

Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

293D7634 **A fatal error occurred on fan 3**

Servicer Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

293D7644 A fatal error occurred on fan 4**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

293D8401 Removable media power fault**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DEVBPLN

293D8404 System log entry only, no service action required**293DFFF4 Device backplane problem****Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

(287F) Reference codes

(287F) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address.

287FB9A0 I/O adapter hardware error detected**FRU List:**

FI00719

AJDGP01

(2890) Reference codes

(2890) Reference codes

28900A17 A permanent I/O processor failure occurred**FRU List:**

IOP

MA_BRDG

AJDG301

AJDGP01

28900A22 Adapter card storage error**FRU List:**

AJDGP01

AJDG301

IOP

MA_BRDG

28901307 I/O adapter resource not available.**FRU List:**

AJDGP01

AJDG301

28901310 I/O adapter resource not available.**Service Response:**

The INS processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

FRU List:

IOP

AJDGP01

28903000 **An I/O adapter failure occurred.**
FRU List:
IOP

AJDGP01

28903001 **I/O adapter Licensed Internal Code failed.**
FRU List:
IOP

AJDGP01

28903006 **An I/O adapter failure occurred.**
FRU List:
IOP

ANYBUS

28903080 **I/O adapter Licensed Internal Code failed.**
FRU List:
AJDGP01

28903081 **I/O adapter error; logged only.**

28903084 **An I/O adapter failure occurred.**
FRU List:
AJDGP01

IOP

IOA

MA_BRDG

28903087 **I/O adapter resource not available.**
FRU List:
AJDGP01

AJDG301

NTUSER

IOA

28906070 **An I/O adapter failure occurred.**
FRU List:
IOP

28906071 **I/O adapter Licensed Internal Code failed.**
FRU List:
AJDGP01

28906072 **I/O adapter Licensed Internal Code failed.**
FRU List:
AJDGP01

IOP

28906075 **I/O adapter resource not available.**
FRU List:
AJDGP01

28906083 **I/O adapter Licensed Internal Code failed.**
FRU List:
AJDGP01

IOP

28906085 **I/O adapter Licensed Internal Code failed.**
FRU List:
AJDGP01

IOP

MA_BRDG

28906201 **A permanent I/O processor failure occurred**
FRU List:
IOP

AJDGP01

28906202 **I/O processor Licensed Internal Code error**
FRU List:
AJDGP01

IOP

28906210	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	

28906221	I/O processor resource not available
FRU List:	
AJDG301	

28906222	A permanent I/O processor failure occurred
FRU List:	
AJDGP01	
IOP	

28906223	A permanent I/O processor failure occurred
FRU List:	
IOP	
AJDGP01	

28906224	A permanent I/O processor failure occurred
FRU List:	
DISKIMG	
AJDGP01	
IOP	
MEMORY	

28906225	A permanent I/O processor failure occurred
FRU List:	
AJDGP01	
AJDG301	
IOP	

28906226	I/O processor card detected device error
FRU List:	
AJDG301	
AS4NTDD	

28906227	A HostLAN error was detected
FRU List:	
NTUSER	
AJDGP01	
IOP	

28906228	Windows initiated a warm boot
FRU List:	
AJDGP01	
IOP	

28906501	A Windows fatal error occurred
FRU List:	
IOP	
AJDGP01	

28906502	A Windows fatal error occurred
FRU List:	
AJDGP01	
IOP	

28906530	A Virtual SCSI error was detected
FRU List:	
NTVSCSI	
NTOPSYS	

28906531	A Virtual SCSI error was detected
FRU List:	
NTVSCSI	
AS4NTDD	
NTOPSYS	
AJDGP01	

28906532	A Virtual SCSI error was detected
FRU List:	
NTOPSYS	
AJDGP01	
AS4NTDD	

28906533 A Virtual SCSI error was detected

FRU List:
NTUSER

NTOPSYS

AS4NTDD

28906534 A Virtual SCSI error was detected

FRU List:
AS4NTDD

AJDGP01

NTOPSYS

28906535 A Virtual SCSI error was detected

FRU List:
NTUSER

NTDEVDR

AJDGP01

28906538 A Virtual SCSI error was detected

FRU List:
NTVSCSI

NTOPSYS

28906539 A Virtual SCSI error was detected

FRU List:
NTVSCSI

AS4NTDD

NTOPSYS

AJDGP01

2890653A A Virtual SCSI error was detected

FRU List:
NTOPSYS

AJDGP01

AS4NTDD

2890653B A Virtual SCSI error was detected

FRU List:
NTUSER

NTOPSYS

AS4NTDD

2890653C A Virtual SCSI error was detected

FRU List:
AS4NTDD

AJDGP01

NTOPSYS

2890653D A Virtual SCSI error was detected

FRU List:
NTUSER

NTDEVDR

AJDGP01

2890653F A Virtual SCSI error was detected

FRU List:
NTDEVDR

NTOPSYS

AJDG301

28906540 A Virtual SCSI error was detected

FRU List:
NTVSCSI

AJDGP01

AJDG301

28906541 A permanent I/O processor failure occurred

FRU List:
IOP

AJDGP01

28906542 Licensed Internal Code error detected.

FRU List:
AJDG301

AJDGP01

28906543 A Windows fatal error occurred

FRU List:
NTOPSYS

NTVSCSI

28906580 A Windows fatal error occurred

FRU List:
DISKIMG

IOP

AJDGP01

289065B0 A HostLAN error was detected

FRU List:
NTLANDD

NTOPSYS

289065B1 A HostLAN error was detected

FRU List:
NTLANDD

NTOPSYS

AJDG301

289065B2 A HostLAN error was detected

FRU List:
NTDEVDR

NTOPSYS

AJDG301

28908301 An I/O adapter failure occurred.

FRU List:
AJDGP01

IOP

2890B3B1 A permanent I/O processor failure occurred

FRU List:
IOP

2890B3B2 A permanent I/O processor failure occurred

FRU List:
IOP

2890B3B3 A permanent I/O processor failure occurred

FRU List:
IOP

2890B3B4 A permanent I/O processor failure occurred

FRU List:
IOP

2890B3B5 A permanent I/O processor failure occurred

FRU List:
IOP

2890B3B6 A permanent I/O processor failure occurred

FRU List:
IOP

2890B3B7 A permanent I/O processor failure occurred

FRU List:
IOP

2890B3B8 Multi-adapter bridge error detected.

FRU List:
MA_BRDG

IOP

2890B3B9 A permanent I/O processor failure occurred

FRU List:
IOP

2890B3E0 I/O processor detected a fault condition

FRU List:
IOP

MA_BRDG

2890B3E1 An I/O adapter failure occurred.

FRU List:
IOP

MA_BRDG

2890B4B0 • 2890BE00

2890B4B0 I/O adapter hardware error detected
FRU List:
IOP

2890B4B1 I/O adapter hardware error detected
FRU List:
IOP

MEMORY

2890B4B2 Incompatible hardware detected.
FRU List:
IOP

2890B4B3 Incompatible hardware detected.
FRU List:
IOA

2890B4B4 I/O adapter hardware error detected
FRU List:
IOP

IOA

MEMORY

2890B4B5 An I/O adapter failure occurred.
FRU List:
AJDGP01

IOP

2890B4B8 Adapter card storage error
FRU List:
MEMORY

IOP

2890B4B9 An I/O adapter failure occurred.
FRU List:
IOP

2890B4BC I/O adapter error; logged only.
FRU List:
IOP

IOA

2890B4BE Adapter card storage error
FRU List:
MEMORY

IOP

2890B904 A permanent I/O processor failure occurred
FRU List:
AJDGP01

IOP

2890B935 Incompatible hardware detected.
FRU List:
IOA

AJDGP01

IOP

MA_BRDG

2890B960 I/O processor Licensed Internal Code error
FRU List:
AJDGP01

IOP

IOA

2890B961 An error was detected on one of the attached adapter cards.
FRU List:
IOA

IOP

AJDGP01

2890BE00 An I/O adapter failure occurred.
FRU List:
AJDGP01

IOP

IOA

MA_BRDG

(2892) Reference codes

(2892) Reference codes

28920A17 A permanent I/O processor failure occurred

FRU List:
IOP

MA_BRDG

AJDG301

AJDGP01

28920A22 Adapter card storage error

FRU List:
AJDGP01

AJDG301

IOP

MA_BRDG

28921307 I/O adapter resource not available.

FRU List:
AJDGP01

AJDG301

28921310 I/O adapter resource not available.

Servicer Response:

The INS processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

FRU List:
IOP

AJDGP01

28921317 I/O processor card error

Servicer Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates to replace hardware, then replace hardware. If the Failing Item indicates SVCDOCS, then do NOT replace hardware. This is a recoverable error. If the resource is not operable, use Hardware Service Manager to re-IPL the resource. Perform the VRYCFG command to Vary On the NWSD.

FRU List:
SVCDOCS

28923000 An I/O adapter failure occurred.

FRU List:
IOP

AJDGP01

28923001 I/O adapter Licensed Internal Code failed.

FRU List:
IOP

AJDGP01

28923006 An I/O adapter failure occurred.

FRU List:
IOP

ANYBUS

28923080 I/O adapter Licensed Internal Code failed.

FRU List:
AJDGP01

28923081 I/O adapter error; logged only.

28923084 An I/O adapter failure occurred.

FRU List:
AJDGP01

IOP

IOA

MA_BRDG

28923087 I/O adapter resource not available.

FRU List:
AJDGP01

AJDG301

NTUSER

IOA

28926070 An I/O adapter failure occurred.

FRU List:

IOP

28926071 I/O adapter Licensed Internal Code failed.

FRU List:
 AJDGP01

28926072 I/O adapter Licensed Internal Code failed.

FRU List:
 AJDGP01

IOP

28926075 I/O adapter resource not available.

FRU List:
 AJDGP01

28926083 I/O adapter Licensed Internal Code failed.

FRU List:
 AJDGP01

IOP

28926085 I/O adapter Licensed Internal Code failed.

FRU List:
 AJDGP01

IOP

MA_BRDG

28926201 A permanent I/O processor failure occurred

FRU List:
 IOP

AJDGP01

28926202 I/O processor Licensed Internal Code error

FRU List:
 AJDGP01

IOP

28926204 I/O adapter failure due to a thermal condition

FRU List:
 IOP

28926210 I/O processor Licensed Internal Code error

FRU List:
 AJDGP01

28926221 I/O processor resource not available

FRU List:
 AJDG301

28926222 A permanent I/O processor failure occurred

FRU List:
 AJDGP01

IOP

28926223 A permanent I/O processor failure occurred

FRU List:
 IOP

AJDGP01

28926224 A permanent I/O processor failure occurred

FRU List:
 DISKIMG

AJDGP01

IOP

MEMORY

28926225 A permanent I/O processor failure occurred

FRU List:
 AJDGP01

AJDG301

IOP

28926226 I/O processor card detected device error
FRU List:
 AJDG301

AS4NTDD

28926227 A HostLAN error was detected
FRU List:
 NTUSER

AJDGP01

IOP

28926228 Windows initiated a warm boot
FRU List:
 AJDGP01

IOP

28926501 A Windows fatal error occurred
FRU List:
 IOP

AJDGP01

28926502 A Windows fatal error occurred
FRU List:
 AJDGP01

IOP

28926530 A Virtual SCSI error was detected
FRU List:
 NTVSCSI

NTOPSYS

28926531 A Virtual SCSI error was detected
FRU List:
 NTVSCSI

AS4NTDD

NTOPSYS

AJDGP01

28926532 A Virtual SCSI error was detected
FRU List:
 NTOPSYS

AJDGP01

AS4NTDD

28926533 A Virtual SCSI error was detected
FRU List:
 NTUSER

NTOPSYS

AS4NTDD

28926534 A Virtual SCSI error was detected
FRU List:
 AS4NTDD

AJDGP01

NTOPSYS

28926535 A Virtual SCSI error was detected
FRU List:
 NTUSER

NTDEVDR

AJDGP01

28926538 A Virtual SCSI error was detected
FRU List:
 NTVSCSI

NTOPSYS

28926539 A Virtual SCSI error was detected
FRU List:
 NTVSCSI

AS4NTDD

NTOPSYS

AJDGP01

2892653A A Virtual SCSI error was detected
FRU List:
 NTOPSYS

AJDGP01

AS4NTDD

2892653B A Virtual SCSI error was detected

FRU List:
NTUSER

NTOPSYS

AS4NTDD

2892653C A Virtual SCSI error was detected

FRU List:
AS4NTDD

AJDGP01

NTOPSYS

2892653D A Virtual SCSI error was detected

FRU List:
NTUSER

NTDEVDR

AJDGP01

2892653F A Virtual SCSI error was detected

FRU List:
NTDEVDR

NTOPSYS

AJDG301

28926540 A Virtual SCSI error was detected

FRU List:
NTVSCSI

AJDGP01

AJDG301

28926541 A permanent I/O processor failure occurred

FRU List:
IOP

AJDGP01

28926542 Licensed Internal Code error detected.

FRU List:
AJDG301

AJDGP01

28926543 A Windows fatal error occurred

FRU List:
NTOPSYS

NTVSCSI

28926580 A Windows fatal error occurred

FRU List:
DISKIMG

IOP

AJDGP01

289265B0 A HostLAN error was detected

FRU List:
NTLANDD

NTOPSYS

289265B1 A HostLAN error was detected

FRU List:
NTLANDD

NTOPSYS

AJDG301

289265B2 A HostLAN error was detected

FRU List:
NTDEVDR

NTOPSYS

AJDG301

28928301 An I/O adapter failure occurred.

FRU List:
AJDGP01

IOP

2892B3B1 A permanent I/O processor failure occurred

FRU List:
IOP

2892B3B2 A permanent I/O processor failure occurred

FRU List:
IOP

2892B3B3 A permanent I/O processor failure occurred

FRU List:
IOP

2892B3B4 A permanent I/O processor failure occurred

FRU List:
IOP

2892B3B5 A permanent I/O processor failure occurred

FRU List:
IOP

2892B3B6 A permanent I/O processor failure occurred

FRU List:
IOP

2892B3B7 A permanent I/O processor failure occurred

FRU List:
IOP

2892B3B8 Multi-adapter bridge error detected.

FRU List:
MA_BRDG

IOP

2892B3B9 A permanent I/O processor failure occurred

FRU List:
IOP

2892B3E0 I/O processor detected a fault condition

FRU List:
IOP

MA_BRDG

2892B3E1 An I/O adapter failure occurred.

FRU List:
IOP

MA_BRDG

2892B4B0 I/O adapter hardware error detected

FRU List:
IOP

2892B4B1 I/O adapter hardware error detected

FRU List:
IOP

MEMORY

2892B4B2 Incompatible hardware detected.

FRU List:
IOP

2892B4B3 Incompatible hardware detected.

FRU List:
IOA

2892B4B4 I/O adapter hardware error detected

FRU List:
IOP

IOA

MEMORY

2892B4B5 An I/O adapter failure occurred.

FRU List:
AJDGP01

IOP

2892B4B8 Adapter card storage error

FRU List:
MEMORY

IOP

2892B4B9 • 2892BE00

2892B4B9 **An I/O adapter failure occurred.**

FRU List:
IOP

2892B4BC **I/O adapter error; logged only.**

FRU List:
IOP

IOA

2892B4BE **Adapter card storage error**

FRU List:
MEMORY

IOP

2892B904 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

IOP

2892B935 **Incompatible hardware detected.**

FRU List:
IOA

AJDGP01

IOP

MA_BRDG

2892B960 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

IOA

2892B961 **An error was detected on one of the attached adapter cards.**

FRU List:
IOA

IOP

AJDGP01

2892BE00 **An I/O adapter failure occurred.**

FRU List:
AJDGP01

IOP

IOA

MA_BRDG

(2B2x) Model 185 and A50 reference (error) codes

Model 185 and A50 reference (error) codes

2B200x31 Processor x is faulty

Service Response:

Replace the systembackplane.

FRU List:

SYSBKP2

2B208888 Operating system termination request received

Service Response:

Informational message.

2B2x00EE An exception error has been reported on a processor

Service Response:

The type of interrupt that caused the exception is specified by the x as follows:

x Description ----- 0 Unknown
 interrupt 1 System reset interrupt (SRI) 2 Machine
 check interrupt (MCI) 3 Data storage interrupt
 (DSI) 4 Instruction storage interrupt (ISI) 5
 External interrupt (EXI) 6 Alignment interrupt
 (ALI) 7 Program interrupt (SRI) 8 Floating
 unavailable interrupt (FUI)

Do the following:

1. Check for system firmware updates, and apply if available.
2. Replace the system backplane.

FRU List:

SYSBKP2

Chapter 4. 3xxx Reference Codes

3xxx Reference Codes

(3490) Tape unit reference codes

(3490) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

34900xxx	Tape unit failure

Service Response:

Use online problem analysis and the 3490 Tape Unit service information to analyze the problem.

34901xxx	Tape unit failure

Service Response:

Use online problem analysis and the 3490 Tape Unit service information to analyze the problem.

34902000	Tape unit failure

Service Response:

Use online problem analysis and the 3490 Tape Unit service information to analyze the problem.

34902001	Tape path dirty or write data check error

Service Response:

Clean the tape path using the cleaning procedures in the *3490 Magnetic Tape Subsystem Operator's Guide*, GA32-0124.

Use the 3490 Tape Unit service information to continue analyzing the problem.

FRU List:

MHK0001DHK0002

34902003	Tape path dirty or write identification record error

Service Response:

Clean the tape path using the cleaning procedures in the *3490 Magnetic Tape Subsystem Operator's Guide*, GA32-0124.

Use the 3490 Tape Unit service information to continue analyzing the problem.

FRU List:

MHK0001DHK0002

34902008	Tape path dirty or read data check error

Service Response:

Clean the tape path using the cleaning procedures in the *3490 Magnetic Tape Subsystem Operator's Guide*, GA32-0124.

Use the 3490 Tape Unit service information to continue analyzing the problem.

FRU List:

MHK0001DHK0002

34902009	Tape path dirty or read identification record error

Service Response:

Clean the tape path using the cleaning procedures in the *3490 Magnetic Tape Subsystem Operator's Guide*, GA32-0124.

Use the 3490 Tape Unit service information to continue analyzing the problem.

FRU List:
MHK0001DHK0002

34902010 Tape unit failure

Servicer Response:
Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

34902014 Recoverable tape unit failure; logged only

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

34902015 Tape unit failure

Servicer Response:
Clean the tape path using the cleaning procedures in the *3490 Magnetic Tape Subsystem Operator's Guide*, GA32-0124.

Use the 3490 Tape Unit service information to continue analyzing the problem.

FRU List:
DHK0002

FI00856

FI00845

34902017 Write Protect violation reported by tape unit; logged only

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

3490202x Tape unit failure

Servicer Response:
Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

3490205x Tape unit failure

Servicer Response:
Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

3490206x Tape unit failure

Servicer Response:
Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

349021xx Tape unit failure

Servicer Response:
Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

349022xx Tape unit failure

Servicer Response:
Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

349023xx Tape Library failure

Servicer Response:
Use the 3494 Tape Library Data server Maintenance Information to analyze the problem.

34909020 I/O processor detected a SCSI bus configuration error

Servicer Response:
Before exchanging any parts, verify that the following conditions are not present:

- Tape and DASD devices attached to the same type 6501 I/O processor
- A device type or model that is not given support

FRU List:
UHKCNFG

FI00851

FI00130

34909100 Interface error detected by I/O processor or by tape unit

Servicer Response:
Before exchanging any parts, do the following:

1. Ensure that an interposer is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:
FI00851

FI00856

05H3834

EXTSCSI

61G8324

**34909200 I/O processor addressed the tape unit;
no response****Service Response:**

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00851

FI00856

05H3834

EXTSCSI

61G8324

34909201 Tape unit command timeout**Service Response:**

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00851

FI00856

05H3834

EXTSCSI

61G8324

**34909210 Illegal or unsupported tape unit
response****FRU List:**

FI00851

FI00856

FI00130

34909300 Tape unit failure**FRU List:**

DHK0002

34909301 Tape device failure, redundancy lost**Service Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the present operation.

See the 3590 Tape Unit service information to determine the failing item.

FRU List:

DHK0002

**34909302 I/O processor Licensed Internal Code
error****Service Response:**If the system is operational, take a dump of the I/O processor data. For more information, see the *Service Functions* located in your host system's service guide, or contact your next level of support for assistance.**FRU List:**

FI00130

**34909310 Licensed Internal Code for the tape unit
is not correct****FRU List:**

FI00851

FI00130

**34909320 Tape device Licensed Internal Code
failure****Service Response:**

Do the following:

1. Take a dump of the tape device Licensed Internal Code (see the 3490 Tape Drive service information).
2. Power off the tape unit. Then power on the tape unit to resume operation.

FRU List:

FI00851

**34909350 Tape unit detected a read or write error
on tape medium****Service Response:**

A permanent read or write error occurred, and the tape unit determined that the tape cartridge is defective. Exchange the tape cartridge.

FRU List:
MHKTMEDUHKCLN

FI00851

34909351 I/O processor Licensed Internal Code error

Service Response:

If the system is operational, take a dump of the I/O processor data. For more information, see *Service Functions* located in your host system's service guide, or contact your next level of support for assistance

FRU List:
FI00130

34909355 The data format is incorrect; the tape cannot be read

Service Response:

The tape device does not give support to the data format on the tape cartridge. Re-initialize the tape cartridge or use a different tape cartridge.

FRU List:
MHKTMEDUHKCLN

FI00851

34909500 I/O processor Licensed Internal Code error.

Service Response:

If the system is operational, take a dump of the I/O processor data. For more information, see *Service Functions* located in your host system's service guide, or contact your next level of support for assistance

FRU List:
FI00130

349096xx Tape unit failure

Service Response:

Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

34909800 I/O processor successfully recovered from temporary error

Service Response:

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

34909801 I/O processor successfully recovered from temporary error

Service Response:

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

34909802 I/O processor successfully recovered from temporary error

Service Response:

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

34909803 I/O processor successfully recovered from temporary error

Service Response:

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

34909810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

34909899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:
UHKFIXD

34909900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape unit again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

3490Axxx Tape unit failure**Service Response:**

Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

3490Bxxx Tape unit failure**Service Response:**

Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

3490Cxxx Tape unit failure**Service Response:**

Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

3490Dxxx Tape unit failure**Service Response:**

Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

3490Exxx Tape unit failure**Service Response:**

Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

3490F00x Tape unit failure**Service Response:**

Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.

3490FFD5 Device error reported; tape I/O processor**Service Response:**

Verify the following:

1. That power is switched on in the 3490 Tape Unit Rack:
 - Set the 3490 Rack Unit Emergency Power Off switch to the On position.
 - Ensure that the 3490 Rack Enable/Off switch is set to the Enable position.
 - Press the 3490 Rack Power On button.
2. Verify the following on 3490 Tape Unit:
 - The Channel Enable/Disable switches are set to the Enable position.
 - The Normal/Test switch is set to the Normal position.
 - The CU Online/Offline switch is set to the Online position.
 - The Drive Address Online/Offline switches are set to the Online position.
 - The Drive DC Power switches are set to the On position.

If you are attempting to perform an IPL from the device that had the error, verify that the drive control unit address switch has an address of hexadecimal 7 and the drive unit address switch has an address of 0.

Use the 3490 Tape Unit service information to continue analyzing the problem.

FRU List:

UHK0003DHK0002

3490FFF6 Volume statistics; logged only**Service Response:**

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

(3494) Tape library reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the 3494 Library Manager console for error indications. Refer to the 3494 service information to resolve any error indications.
3. Attempt the failing operation again.
4. Does the operation complete successfully?
 - **Yes:** The problem has been corrected. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

34942301 Library device failure.**Service Response:**

Library attachment facilityequipment check.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

FRU List:
3494

34942303 Library device failure

Service Response:

Device control unit and librarymanager Licensed Internal Code are incompatible. Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

FRU List:
DHALIBC

DHADEVIC

34942306 Library device failure. Library vision failure.

Service Response:
Library vision failure.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

FRU List:
3494

34942307 Library device failure. Library vision failure.

Service Response:
Library vision failure.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

FRU List:
3494

34942308 Library device failure.

Service Response:
Library manager equipmentcheck.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY MANAGER HARDWARE PROBLEM"

FRU List:
3494

34942309 Library device failure. Library equipment check.

Service Response:
Library equipment check.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

FRU List:
3494

34942310 Library device requires operator intervention.

Service Response:
Putthe library into pause mode and perform the intervention indicated on the library manager console.

34942311 Library device requires operator intervention.

Service Response:
Putthe library into pause mode and perform the intervention indicated on the library manager console.

34942319 Tape unit failure.

Service Response:
Use the tape unit service informationto analyze the failure.

FRU List:
FI00851

34942321 Library enclosure environmental alert was detected.

Service Response:
Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

FRU List:
3494

(3570) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

35709020	I/O processor detected a SCSI bus configuration error
Servicer Response: Before exchanging any parts, verify that the following conditions are not present: • Tape and DASD devices attached to an I/O processor that does not support tape and DASD devices at the same time. • A device type or model that is not given support.	
FRU List: UHZCNFGDZHDEV	
FI00130	
35709100	Interface error detected by I/O processor or by tapeunit
Servicer Response: Before exchanging any parts, do the following: 1. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 2. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 3. Ensure that a terminating plug is attached to the device end of the SCSI cable.	
FRU List: DHZDEV	
FI00131	
05H3834	
EXTSCSI	
61G8324	

35709101	Fibre Channel interface error detected
Servicer Response: If the attacheddevice is an external device, do the following before exchanging any parts: 1. Ensure that the Fibre Channel cable is correctly connected to the ports. 2. Clean the Fibre Channel connectors. 3. If there is a hub attached, verify that the hub is operational. 4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures. 5. refer to the tape device service documentation for additonal problem analysis procedures.	
FRU List: FCIOA	
FCDEV	
FCCABLE	
35709102	Gateway device detected a SCSI interface error
Servicer Response: Use the gateway device service documentation to analyze the problem.	
FRU List: DHZDEV	
FCGATE	
EXTSCSI	
61G8324	

35709200 I/O processor addressed the tape unit; no response**Servicer Response:**

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

DHZDEV

FI00131

05H3834

EXTSCSI

61G8324

35709201 Tape unit command timeout**Servicer Response:**

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

DHZDEV

FI00131

05H3834

EXTSCSI

61G8324

35709202 Tape unit failed after Licensed Internal Code was loaded**Servicer Response:**

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.

3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

DHZDEV

FI00131

05H3834

EXTSCSI

61G8324

35709210 Illegal or unsupported tape unit response**FRU List:**

DHZDEV

FI00131

FI00130

35709211 Gateway device detected a bus protocol error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

DHZDEV

ANYFC

FCCABLE

EXTSCSI

61G8324

35709300 Tape unit failure**FRU List:**

DHZDEV

35709301 Tape device failure, redundancy lost**Servicer Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

Refer to the 3570 Tape Unit service information to determine the failing item.

FRU List:
DHzDEV

35709302 I/O processor Licensed Internal Code error.

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:
FI00130

35709303 Gateway device failure

Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

35709310 Licensed Internal Code for the tape unit is not correct.

FRU List:
DHzDEV

FI00130

35709320 Tape device Licensed Internal Code failure

Service Response:

Perform the following:

1. Take a dump of the tape unit Licensed Internal Code (see the 3570 Tape Unit service information).
2. Power off the tape unit. Then power on the tape unit to resume operation.
3. Ask your next level of support for assistance.

FRU List:
FI00130

DHzDEV

35709321 Gateway device Licensed Internal Code error

Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

35709350 Tape unit detected a read or write error on tape medium

Service Response:

A permanent read or write error occurred, and the tape unit determined that the tape cartridge is defective. Exchange the tape cartridge.

FRU List:
MHZTMEDUHZCLN DHzDEV

35709351 Tape with excessive error rate was mounted in tape device.

Service Response:

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MHZTMEDUHZCLN DHzDEV

35709355 The data format is incorrect; the tape cannot be read

Service Response:

The tape unit does not give support to the data format on the tape cartridge. Use a different tape cartridge.

FRU List:
UHZUSERMHZTMED UHZCLN DHzDEV

35709500 I/O processor Licensed Internal Code error.

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:
FI00130

35709800 I/O processor successfully recovered from temporary error

Service Response:

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

35709801 I/O processor successfully recovered from temporary error

Service Response:

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

35709802 **I/O processor successfully recovered from temporaryerror**

Service Response:

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

35709803 **I/O processor successfully recovered from temporaryerror**

Service Response:

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

35709810 **Problem analysis has determined a part should be replaced.**

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

35709899 **Problem analysis completed, the problem has been corrected.**

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:
UHZFIXD

35709900 **Licensed Internal Code for tape unit was not upgraded**

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:
UHZUSER

3570FFF6 **Tape volume statistics logged (no action required).**

(358x, 3592) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

358x3202 **Tape unit configuration error**

Service Response:

Before exchanging anyparts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:
UH7CNFG

FI00871

358x9020 **Tape unit configuration error**

Service Response:

Before exchanging anyparts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:
UH7CNFG

FI00871

PTFSRCH

358x9100 Interface error detected by system or by tape unit

Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:
FI00871

FI01112

FI00872

DEVTERM

358x9101 Fibre Channel interface error detected

Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:
FCIOA

FCDEV

FCCABLE

358x9102 Gateway device detected a SCSI interface error

Servicer Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FI00871

FCGATE

FI00872

DEVTERM

358x9200 Tape unit is not responding

Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:
FI00871

FI01112

FI00872

DEVTERM

358x9201 Tape unit command timeout

Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:
FI00871

FI01112

FI00872

DEVTERM

MH7TMED

358x9202 Tape unit failed after Licensed Internal Code was loaded
Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

358x9210 Illegal or unsupported tape unit response
FRU List:

FI00871

FI01112

PTFSRCH

358x9211 Gateway device detected a bus protocol error
Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

358x9300 Tape unit failure
FRU List:

FI00871

358x9301 Tape device failure, redundancy lost
Service Response:

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:

FI00871

358x9302 Tape device failure or media error
Service Response:

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:

MH7TMED

FI00871

358x9303 Gateway device failure
Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

358x9310 Licensed Internal Code for the tape unit is not correct.
FRU List:

PTFSRCH

FI00871

358x9320 Tape device Licensed Internal Code failure
FRU List:

FI00130

FI00871

358x9321 Gateway device Licensed Internal Code error

Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:

FCCODE

358x9350 Tape unit detected a read or write error on tape medium

Service Response:

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:

MH7TMED

UH7CLN

FI00871

358x9351 Tape with excessive error rate was mounted in tape device.

Service Response:

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:

MH7TMED

UH7CLN

FI00871

358x9355 The data format is incorrect; the tape cannot be read

Service Response:

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:

UH7USER

MH7TMED

UH7CLN

FI00871

358x9500 Licensed Internal Code error.

Service Response:

If the system is operational, perform a dump of the I/O processor data.

FRU List:

PTFSRCH

358x9800 System successfully recovered from temporary I/O error

Service Response:

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

358x9801 System successfully recovered from temporary I/O error

Service Response:

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

358x9802 System successfully recovered from temporary I/O error

Service Response:

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

358x9803 System successfully recovered from temporary I/O error

Service Response:

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

358x9804 System successfully recovered from temporary I/O error

Service Response:

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

358x9810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

358x9899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

358x9900 Licensed Internal Code for tape unit was not upgraded**Service Response:**

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:
UH7USER

358x9901 Tape performance statistics logged.**Service Response:**

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

358x9902 An IOP dump was initiated**Service Response:**

No action required.

358xFFF6 Tape volume statistics logged (no action required)

35923202 Tape unit configuration error**Service Response:**

Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:
UH7CNFG

FI00871

35929020 Tape unit configuration error**Service Response:**

Before exchanging any parts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:
UH7CNFG

FI00871

PTFSRCH

35929100 Interface error detected by system or by tape unit**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:
FI00871

FI01112

FI00872

DEVTERM

35929101 Fibre Channel interface error detected**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:
FCIOA

FCDEV

FCCABLE

35929102 Gateway device detected a SCSI interface error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

35929200 Tape unit is not responding**Servicer Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

35929201 Tape unit command timeout**Servicer Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

35929202 Tape unit failed after Licensed Internal Code was loaded**Servicer Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

35929210 Illegal or unsupported tape unit response**FRU List:**

FI00871

FI01112

PTFSRCH

35929211 Gateway device detected a bus protocol error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

35929300 Tape unit failure**FRU List:**
FI00871

35929301 Tape device failure, redundancy lost**Service Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:
FI00871

35929302 Tape device failure or media error**Service Response:**

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:
MH7TMED

FI00871

35929303 Gateway device failure**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

35929310 Licensed Internal Code for the tape unit is not correct**FRU List:**
PTFSRCH

FI00871

35929320 Tape device Licensed Internal Code failure**FRU List:**
FI00130

FI00871

35929321 Gateway device Licensed Internal Code error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

35929350 Tape unit detected a read or write error on tape medium**Service Response:**

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

35929351 Tape with excessive error rate was mounted in tape device.**Service Response:**

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

35929355 The data format is incorrect; the tape cannot be read**Service Response:**

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:
UH7USER

MH7TMED

UH7CLN

FI00871

35929500 Licensed Internal Code error.**Service Response:**

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:

PTFSRCH

35929800 System successfully recovered from temporary I/O error**Service Response:**

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

35929801 System successfully recovered from temporary I/O error**Service Response:**

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

35929802 System successfully recovered from temporary I/O error**Service Response:**

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

35929803 System successfully recovered from temporary I/O error**Service Response:**

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

35929804 System successfully recovered from temporary I/O error**Service Response:**

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

35929810 Problem analysis has determined a part should be replaced.**Service Response:**

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

35929899 Problem analysis completed, the problem has been corrected.**Service Response:**

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

35929900 Licensed Internal Code for tape unit was not upgraded**Service Response:**

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

35929901 Tape performance statistics logged.**Service Response:**

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

35929902 An IOP dump was initiated**Service Response:**

No action required.

3592FFF6 Tape volume statistics logged (no action required)**(3590) Tape unit reference codes**

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.

2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

35909020 I/O processor detected a SCSI bus configuration error
Service Response:

Before exchanging any parts, verify that the following conditions are *not* present:

- Tape and DASD devices attached to an I/O processor that does not support tape and DASD devices at the same time.
- A device type or model that is not given support

FRU List:

UHQCNFG

FI00851

FI00130

3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

35909100 Interface error detected by I/O processor or by tapeunit
Service Response:

Before exchanging any parts, do the following:

1. Ensure that an interposer is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00851

FI00131

05H3834

EXTSCSI

61G8324

35909102 Gateway device detected a SCSI interface error
Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00851

FCGATE

EXTSCSI

61G8324

35909200 I/O processor addressed the tape unit; no response
Service Response:

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00851

FI00131

05H3834

EXTSCSI

61G8324

35909201 Tape unit command timeout**Service Response:**

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00851

FI00131

05H3834

EXTSCSI

61G8324

35909202 Tape unit failed after Licensed Internal Code was loaded**Service Response:**

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00851

FI00131

05H3834

EXTSCSI

61G8324

35909210 Illegal or unsupported tape unit response**FRU List:**

FI00851

FI00131

FI00130

35909211 Gateway device detected a bus protocol error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

FI00851

ANYFC

FCCABLE

EXTSCSI

61G8324

35909300 Tape unit failure**FRU List:**

FI00851

35909301 Tape device failure, redundancy lost**Service Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the present operation.

See the 3590 Tape Unit service information to determine the failing item.

FRU List:

FI00851

35909302 I/O processor Licensed Internal Code error.**Service Response:**

If the system is operational, perform a dump of the I/O processor data.

FRU List:

FI00130

35909303 Gateway device failure**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

35909310 **Licensed Internal Code for the tape unit is not correct**

FRU List:

FI00851

FI00130

35909320 **Tape device Licensed Internal Code failure**

Service Response:

Do the following:

1. Take a dump of the tape device Licensed Internal Code (see the 3590 Tape Unit service information).
2. Power off the tape unit. Then power on the tape unit to resume operation.

FRU List:

FI00130

FI00851

35909321 **Gateway device Licensed Internal Code error**

Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:

FCCODE

35909350 **Tape unit detected a read or write error on tape medium**

Service Response:

A permanent read or write error occurred, and the tape unit determined that the tape cartridge is defective. Exchange the tape cartridge.

FRU List:

MHQTMEDUHQCLN

FI00851

35909351 **Tape with excessive error rate was mounted in tape device.**

Service Response:

The tape unit detected that the installed tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:

MHQTMEDUHQCLN

FI00851

35909355 **The data format is incorrect; the tape cannot be read**

Service Response:

The tape device does not give support to the data format on the tape cartridge. Format the tape cartridge again or use a different tape cartridge.

See the *3590 Tape Drive Operator's Guide* for instructions on formatting a tape cartridge.

FRU List:

MHQTMEDUHQCLN

FI00851

35909500 **I/O processor Licensed Internal Code error.**

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:

FI00130

35909800 **I/O processor successfully recovered from temporary error**

Service Response:

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

35909801 **I/O processor successfully recovered from temporary error**

Service Response:

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

35909802 **I/O processor successfully recovered from temporary error**

Service Response:

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

35909803 **I/O processor successfully recovered from temporary error**

Service Response:

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

35909810 **Problem analysis has determined a part should be replaced.**

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

35909899 **Problem analysis completed, the problem has been corrected.**

Servicer Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UHQFIXD

35909900 **Licensed Internal Code for tape unit was not upgraded**

Servicer Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape unit again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

3590FFF6 **Tape volume statistics logged (no action required)**

Chapter 5. 4xxx Reference Codes

4xxx Reference Codes

(40xx) Model 185 and A50 reference (error) codes

The system detected a power, voltage, or thermal problem.

40100100 Power supply failure

Service Response:

Replace the power supply.

40100111 VRM 1 failure

FRU List:

VRMOD

SYSBKP2

40100122 VRM 2 failure

FRU List:

VRMOD

SYSBKP2

40100133 VRM ECID setting

FRU List:

VRMOD

SYSBKP2

40100134 The system detected a voltage problem

FRU List:

VRMOD

SYSBKP2

40100144 Unfused board (ECID)

FRU List:

SYSBKP2

40110111 The system detected a battery failure.

Service Response:

Replace the battery.

40200111 Warning temperature reached

Service Response:

Do the following:

1. Check the airflow to the fans, and correct any problems that you find.
2. Look in the operating system error log for error codes that indicate a problem with a fan. Take the appropriate action for the error codes that you find.

40200222 Critical temperature reached

Service Response:

The system will power itself down to standby when a critical temperature is reached. If this occurs, do the following:

1. Check the connections on the fan, and correct any problems that you find.
2. Verify that the airflow to the fan is not blocked, and correct any problems that you find.

40210100 A fan was failing but recovered

Service Response:

Informational message. A replacement fan was hot-plugged in place of a failing fan. The system will clear the rollup card LED.

40210111 A fan failed

Service Response:

Look at the rollup LED card to identify the fan that failed, then do the following:

1. Check the connections on the fan, and correct any problems that you find.
2. Verify that the airflow to the fan is not blocked, and correct any problems that you find.
3. If you find no obvious problems, replace the fan.

40500111 Loss of rollup LED card

Service Response:

Reseat the rollup LED card. You can reseat the rollup LED card while the system is powered on, but the system might reset and reboot.

(432x) Disk unit reference codes

Disk unit reference codes.

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1. Find the reference code in the following list. If the failing item is a disk unit, go to Start Disk Service.

Attention: The 673x is a read cache. Perform all actions required for 673x as a disk drive and logic card except where separate 673x cache instructions are provided.

432x102E	Out of alternate sectors for disk storage	No action required. This reference code is logged for information only.
FRU List: DISKDRV		
432x3002	Addressed device failed to respond to selection	
FRU List: DISKDRV		
STORIOA		
BACKPLN		
FI01106		
FI01140		
432x3010	Disk device returned wrong response to IOA	
FRU List: DISKDRV		
STORIOA		
FI01140		
FI01141		
432x3020	Storage subsystem configuration error	
Service Response: If an MES is being installed, verify the configuration.		
FRU List: DISKDRV		
FI01106		
STORIOA		
FI01140		
432x3029	A device replacement has occurred	
Service Response:		
432x3100	Tape/optical or disk bus interface error occurred	
	Service Response: Perform DSKIP03.	
FRU List: DISKDRV		
STORIOA		
FI01106		
FI01140		
432x3109	IOA timed out a disk command	
FRU List: DISKDRV		
STORIOA		
FI01106		
FI01140		
432x3110	Disk bus interface error occurred	
Service Response: Perform DSKIP03.		
FRU List: STORIOA		
DISKDRV		
FI01106		
FI01140		
432x3130	Device Licensed Internal Code	
Service Response:		

The device is not supported with the level of code currently on the system. Contact your next level of support.

FRU List:
SVCDOCS

432x3131 Device or IOA Licensed Internal Code

Service Response:

The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

FRU List:
SVCDOCS

432x7000 Disk sector read error

Service Response:

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

FRU List:
DISKDRV

432x7001 Temporary disk data error

Service Response:

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

432x7003 Device format error

Service Response:

If the disk has not been formatted by the system, initialize and format the disk.

432x7004 System log entry only. No service action required.

432x7050 Data compression failure

Service Response:

Contact your next level of support.

FRU List:
SVCDOCS

432x7051 Compressed device and compression IOA are not compatible

Service Response:

The customer should perform the procedure specified in "Recovering From 6xxx7051 SRC" in the *Backup and Recovery Guide*.

FRU List:
CMPRES1

432x7052 Data compression warning

Service Response:

Perform the procedure specified in "Recovering From 6xxx7052 SRC" in the *Backup and Recovery Guide*.

FRU List:
SVCDOCS

432xFFF2 Disk motor problem

FRU List:
DISKDRV

432xFFF3 Disk media format not valid

FRU List:
DISKDRV

432xFFF4 Disk device problem

FRU List:
DISKDRV

STORIOA

432xFFF5 Disk sector read error

Service Response:

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

432xFFF6 Disk device detected recoverable error

Service Response:

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

432xFFF7 Temporary disk data error

Service Response:

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

FRU List:
DISKDRV

432xFFF8 Temporary disk data error

Service Response:

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

432xFFF9 Temporary disk data error**Servicer Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

432xFFFA Temporary disk bus error**Servicer Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

STORIOA

FI01140

FI01141

BACKPLN

432xFFFB SCSI bus reset occurred**Servicer Response:**

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

432xFFFE Temporary disk bus error**Servicer Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

STORIOA

FI01106

FI01140

(433x) Disk drive reference codes

SAS disk drive reference codes.

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1. Find the reference code in the following list. If the failing item is a disk drive, go to Start Disk Service.

433x102E Out of alternate sectors for disk storage

FRU List:
DISKDRV

433x3002 Addressed device failed to respond to selection**FRU List:**

DISKDRV

STORIOA

DEVBPLN

SASCABL
SASEXP

433x3010 Disk device returned wrong response to IOA**FRU List:**

DISKDRV

STORIOA

SASCABL
SASEXP

433x3020 Replacement device is not supported**FRU List:**

DISKDRV

STORIOA

SASCABL

433x3029 A device replacement has occurred**Servicer:**

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

433x3100 Device bus interface error occurred
FRU List:

DISKDRV

STORIOA

SASCABL
SASEXP

433x3109 IOA timed out a disk command
FRU List:

DISKDRV

STORIOA

SASCABL
SASEXP

433x3110 Device bus interface error occurred
FRU List:

DISKDRV

STORIOA

SASCABL
SASEXP

433x3130 Device Licensed Internal Code
Service:

The device is not supported with the level of code currently on the system. Contact your next level of support.

FRU List:

SVCDOS

433x34FF Format in progress
Service:

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

433x4041 Incomplete multipath connection
Service:

Incomplete multipath connection between device backplane and device.

FRU List:

SIP3146

433x4060 Multipath redundancy level reduced
Service:

A redundant disk unit connection has failed.

FRU List:
SIP3153
SASCABL
SASEXP

433x4061 Multipath redundancy level increased
Service:

A redundant disk unit connection has been restored. No service action is required.

433x4100 Device bus fabric error
FRU List:
SIP3152
SASCABL
SASEXP

DEVBPLN

STORIOA

DISKDRV

433x7000 Disk sector read error
Service:

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

433x7001 Temporary disk data error
Service:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

DISKDRV

433x70DD System log entry only.
Service:

No service action required.

433xFFF3 Disk device problem
FRU List:

DISKDRV

433xFFF4 Disk device problem
FRU List:

DISKDRV

STORIOA

433xFFF5 Disk sector read error
Service:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

DISKDRV

433xFFF6 Disk device detected recoverable error
Service:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

DISKDRV

433xFFF7 Temporary disk data error
Service:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

DISKDRV

433xFFF9 Temporary disk data error
Service:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

DISKDRV

433xFFFA Temporary disk data error
Service:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

DISKDRV

STORIOA

SASCABL

SASEXP

433xFFFB SAS bus reset occurred
Service:

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

433xFFFE Temporary disk bus error
Service:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

SIP3150

(4758) Reference codes

4758 Reference codes

Find the reference code in the following list.

4758B990 I/O adapter hardware error detected
FRU List:

IOA

FI00130

IOP

MA_BRDG

4758B991 **Tampering of cryptographic card suspected.**

FRU List:
IOA

FI00130

IOP

range limits exceeded.

Service Response:

Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4758 adapter card. After the conditions have been corrected, vary off and then vary back on the 4758 device description associated with the 4758 adapter card.

FRU List:
CARDTMP

4758B992 **Operating voltage and/or temperature**

(4685) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - Yes: You have corrected the problem. This ends the procedure.
 - No: Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

46853202 **Tape unit configuration error**

Service Response:

Before exchanging anyparts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:
UH7CNFG

FI00871

PTFSRCH

46859100 **Interface error detected by system or by tape unit**

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:
FI00871

FI01112

FI00872

DEVTERM

46859020 **Tape unit configuration error**

Service Response:

Before exchanging anyparts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:
UH7CNFG

FI00871

46859101 **Fibre Channel interface error detected**

Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

46859102 Gateway device detected a SCSI interface error
Servicer Response:

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

46859200 Tape unit is not responding
Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

46859201 Tape unit command timeout
Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

46859202 Tape unit failed after Licensed Internal Code was loaded
Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

46859210 Illegal or unsupported tape unit response
FRU List:

FI00871

FI01112

PTFSRCH

46859211 Gateway device detected a bus protocol error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

46859300 Tape unit failure**FRU List:**

FI00871

46859301 Tape device failure, redundancy lost**Service Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:

FI00871

46859302 Tape device failure or media error**Service Response:**

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:

MH7TMED

FI00871

46859303 Gateway device failure**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

46859310 Licensed Internal Code for the tape unit is not correct**FRU List:**

PTFSRCH

FI00871

46859320 Tape device Licensed Internal Code failure**FRU List:**

FI00130

FI00871

46859321 Gateway device Licensed Internal Code error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCCODE

46859350 Tape unit detected a read or write error on tape medium**Service Response:**

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:

MH7TMED

UH7CLN

FI00871

46859351 Tape with excessive error rate was mounted in tape device.**Service Response:**

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:

MH7TMED

UH7CLN

FI00871

46859355 The data format is incorrect; the tape cannot be read

Service Response:

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:

UH7USER

MH7TMED

UH7CLN

FI00871

46859500 Licensed Internal Code error.

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:

PTFSRCH

46859800 System successfully recovered from temporary I/O error

Service Response:

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

46859801 System successfully recovered from temporary I/O error

Service Response:

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

46859802 System successfully recovered from temporary I/O error

Service Response:

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

46859803 System successfully recovered from temporary I/O error

Service Response:

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

46859804 System successfully recovered from temporary I/O error

Service Response:

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

46859810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

46859899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

46859900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

46859901 Tape performance statistics logged.

Service Response:

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

46859902 **An IOP dump was initiated**

Service Response:
No action required.

4685FFF6 **Tape volume statistics logged (no action required)**

(4764) Reference codes

4764 Reference codes.

Find the reference code in the following list.

4764B990 **I/O adapter hardware error detected**

FRU List:
IOA

AJDG301

4764B991 **Tampering of cryptographic card suspected.**

FRU List:
IOA

AJDG301

4764B992 **Operating voltage and/or temperature range limits exceeded.**

Service Response:

Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4764 adapter card. After the conditions have been corrected, vary off and then vary back on the 4764 device description associated with the 4764 adapter card.

FRU List:
CARDTMP

(4812) Reference codes

4812 Reference codes

48126201 **A permanent I/O processor failure occurred**

FRU List:
IOA

FI00730

48126202 **I/O processor Licensed Internal Code error**

FRU List:
FI00730

IOA

48126204 **I/O adapter failure due to a thermal condition**

FRU List:
IOA

48126210 **I/O processor Licensed Internal Code error**

FRU List:
FI00730

48126221 **I/O processor resource not available**

FRU List:

LICCODE

DISKIMG

48126222 **A permanent I/O processor failure occurred**

FRU List:
FI00730

IOA

48126223 **A permanent I/O processor failure occurred**

FRU List:
IOA

FI00730

48126225 **A permanent I/O processor failure occurred**

FRU List:
FI00730

LICCODE

IOA

48126226 A Virtual SCSI error was detected

FRU List:
LICCODE

AS4NTDD

FI00730

48126227 Windows initiated a warm boot

FRU List:
NTUSER

FI00730

IOA

48126228 Windows initiated a warm boot

FRU List:
FI00730

IOA

48126501 A Windows fatal error occurred

FRU List:
IOA

FI00730

48126502 A Windows fatal error occurred

FRU List:
FI00730

IOA

48126530 A Virtual SCSI error was detected

FRU List:
NTVSCSI

NTOPSYS

48126531 A Virtual SCSI error was detected

FRU List:
NTVSCSI

AS4NTDD

NTOPSYS

FI00730

48126532 A Virtual SCSI error was detected

FRU List:
NTOPSYS

FI00730

AS4NTDD

48126533 A Virtual SCSI error was detected

FRU List:
NTUSER

NTOPSYS

AS4NTDD

48126534 A Virtual SCSI error was detected

FRU List:
AS4NTDD

FI00730

NTOPSYS

48126535 A Virtual SCSI error was detected

FRU List:
NTUSER

NTDEVDR

FI00730

48126538 A Virtual SCSI error was detected

FRU List:
NTVSCSI

NTOPSYS

48126539 A Virtual SCSI error was detected

FRU List:
NTVSCSI

AS4NTDD

NTOPSYS

FI00730

4812653A A Virtual SCSI error was detected

FRU List:
NTOPSYS

FI00730

AS4NTDD

4812653B A Virtual SCSI error was detected**FRU List:**
NTUSER

NTOPSYS

AS4NTDD

4812653C A Virtual SCSI error was detected**FRU List:**
AS4NTDD

FI00730

NTOPSYS

4812653D A Virtual SCSI error was detected**FRU List:**
NTUSER

NTDEVDR

FI00730

4812653F A Virtual SCSI error was detected**FRU List:**
NTDEVDR

NTOPSYS

LICCODE

48126540 A Virtual SCSI error was detected**FRU List:**
NTVSCSI

FI00730

LICCODE

48126541 A permanent I/O processor failure
occurred**FRU List:**
IOA

FI00730

48126542 Licensed Internal Code error detected.**FRU List:**
LICCODE

FI00730

48126543 A Windows fatal error occurred**FRU List:**
NTOPSYS

NTVSCSI

48126580 A Windows fatal error occurred**FRU List:**
NTOPSYS

NTVSCSI

DISKIMG

IOA

FI00730

4812B4B0 I/O adapter hardware error detected**FRU List:**
IOA

4812B4B1 I/O adapter hardware error detected**FRU List:**
IOA

MEMORY

4812B4B4 I/O adapter hardware error detected**FRU List:**
IOA

MEMORY

4812B4B5 An I/O adapter failure occurred.**FRU List:**
FI00730

IOA

4812B4B8 Adapter card storage error**FRU List:**
MEMORY

IOA

4812B4B9 **An I/O adapter failure occurred.**
FRU List:
IOA

4812B4BC **I/O adapter error; logged only.**
FRU List:
IOA

4812B4BE **Adapter card storage error**
FRU List:
MEMORY

IOA

4812B904 **A permanent I/O processor failure occurred**
FRU List:
FI00730

IOA

4812B960 **I/O processor Licensed Internal Code error**
FRU List:
FI00730

IOP

(4B20) Model 185 and A50 reference (error) codes

The system detected a problem with a processor.

4B200111 **A checkstop occurred**
Service Response:

If this error code only occurs once, it is not a problem.
If this error code persists, replace the system backplane.

FRU List:
SYSBKP2

4B200120 **Processor 0 failed to initialize**
Service Response:

On a two-way system, this error implies that one processor is still functioning, and the system will continue to operate in a degraded mode. At some point, you should replace the system backplane.

FRU List:
SYSBKP2

4B200121 **Processor 1 failed to initialize**
Service Response:

On a two-way system, this error implies that one processor is still functioning, and the system will continue to operate in a degraded mode. At some point, you should replace the system backplane.

FRU List:
SYSBKP2

4B200122 **No processors were detected**
FRU List:
SYSBKP2

Chapter 6. 5xxx Reference Codes

5xxx Reference Codes

(509A) Device backplane reference codes

(509A) Device backplane reference codes

509A1511 **A non-fatal error occurred on power supply**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

509A1515 **A non-fatal error occurred on power supply 1**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

509A1521 **A non-fatal error occurred on power supply 2**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

509A1525 **A fatal error occurred on power supply 2**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

DEVBPLN

SASEXP

509A3002 **Addressed device backplane failed to respond to selection**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

509A3109 **I/O adapter timed out a device backplane command**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

509A7614 A fatal error occurred on fan 1**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

509A7624 A fatal error occurred on fan 2**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

509A7634 A fatal error occurred on fan 3**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

509A7644 A fatal error occurred on fan 4**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

509A8401 Removable media power fault**Service Response:**

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DEVBPLN

509A8404 System log entry only, no service action required

509AFFF4 Device backplane problem

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

DEVBPLN

509D reference codes

509D reference codes

509D1511 **A non-fatal error occurred on power supply 1**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

SASEXP

509D1515 **A fatal error occurred on power supply 1**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKPWR

SASEXP

509D3002 **Addressed device backplane failed to respond to selection.**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

509D3109 **I/O adapter timed out a device**

backplane command.

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

509D7614 **A fatal error occurred on fan 1.**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

DISKFAN

509D8404 **System log entry only, no service action required.**

509DFFF4 **Device backplane problem**

Service Response:

Refer to the FRU list below and perform all actions before exchanging the suspect FRU.

FRU List:

SASEXP

SASCABL

STORIOA

(5700, 5701) Reference codes

5700, 5701 Reference codes

1. Look at characters 1 through 8 of the top 16 character line of function 11 (8 rightmost characters of word 1). These 8 characters are the reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBB Cbbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address.
3. Find the reference code in the following table.

5700A001 **I/O adapter Licensed Internal Code error detected**

FRU List:

AJDGP01

5700B9A0 **I/O adapter hardware error detected**
FRU List:
 FI00719

FI00718

AJDGP01

MA_BRDG

5700B9B0 **I/O adapter hardware error detected**
FRU List:
 FI00719

LICCODE

MA_BRDG

5701A001 **I/O adapter Licensed Internal Code error detected**
FRU List:
 AJDGP01

5701B9A0 **I/O adapter hardware error detected**
FRU List:
 FI00719

FI00718

AJDGP01

MA_BRDG

5701B9B0 **I/O adapter hardware error detected**
FRU List:
 FI00719

LICCODE

MA_BRDG

(5702, 570B) Reference codes

(5702, 570B) Reference codes

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1.

Note: The 673x is a read cache. Perform all actions required for 673x as a disk drive and logic card except where separate 673x cache instructions are provided.

57020A17 **A permanent I/O processor failure occurred**
FRU List:
 IOP

MA_BRDG

AJDGP01

AJDG301

57020A22 **I/O processor detected a storage transfer error**
FRU List:
 AJDGP01

AJDG301

IOP

MA_BRDG

FRU List:
 FI01105

57021306 **I/O processor card or Licensed Internal Code error**
Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
 AJDGP01

IOP

FI01104

BACKPLN

57021307 **I/O processor resource not available**
FRU List:
 AJDGP01

AJDG301

5702102E **Out of alternate sectors for disk storage**

57021310 I/O processor resource not available**Service Response:**

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

57021317 I/O processor card error**Service Response:**

Display the Service ActionLog entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:

SVCDOCS

57022200 I/O processor Licensed Internal Code error**FRU List:**

AJDGP01

57022201 Removable media error during IPL**FRU List:**

USER

FI01105

57022202 Removable media error during IPL**FRU List:**

FI00022

FI01105

57023000 A permanent I/O processor failure occurred**FRU List:**

FI01101

IOP

MA_BRDG

57023001 Not valid condition in I/O Processor Licensed InternalCode**Service Response:**

The Licensed Internal Code found a condition that should not have occurred.

FRU List:

IOP

AJDGP01

57023002 Addressed device failed to respond to selection**Service Response:**

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

FI01141

FI01106

57023006 System bus error**FRU List:**

IOP

ANYBUS

FI01101

57023020 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

57023021 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57023022 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57023023 I/O processor detected a SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

57023080 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

57023081 System log entry only, no service action required.

57023084 I/O processor card or Licensed Internal Code error

Servicer Response:

A microprocessor exception occurred on the I/O processor.

FRU List:

AJDGP01

IOP

FI01104

MA_BRDG

57023087 I/O processor resource not available

Servicer Response:

The LicensedInternal Code could not allocate resources on the I/O processor card.

FRU List:
AJDGP01

AJDG301

IOACNFG

FI01104

57023100 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

57023101 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

57023102 I/O processor card detected interface error

Servicer Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:
FI01107

STORIOA

FI01140

BACKPLN

57023103 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57023109 I/O processor timed out a device command
Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

57023110 I/O processor card detected interface error
Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

57023120 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57023121 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57023122 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57023123 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57023136 The removable media device is assigned elsewhere
FRU List:

USER

FI01105

57023140 I/O Processor detected that the bus is now operational
Servicer Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

57023141 I/O Processor detected that the bus is now operational
Servicer Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

57023142 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

57023143 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

57023150 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOCS

57023151 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOCS

57023200 A tape/CD or disk device reported a failure

FRU List:

FI01105

STORIOA

IOP

MEDIA

57023203 Disk media format bad

FRU List:

FI01105

57023205 Disk sector read error

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:

FI01105

57023215 Disk sector read error

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:

FI01105

57023250 Disk unit requires initialization before use.

Service Response:

Perform a D-IPL and work on errors found in the log.

FRU List:

USER

57023300 Storage unit detected a media problem

Service Response:

Perform IOPIP01.

FRU List:

MEDIA

FI00121

FI01141

57023400 I/O processor card detected device error

Service Response:

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

DEVTERM

FI01140

57023401 Device backplane problem

FRU List:

DEVBPLN

57023501	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
57023600	System log entry only, no service action required.
57023601	System log entry only, no service action required.
57026070	A permanent I/O processor failure occurred
FRU List:	
IOP	
57026071	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
57026072	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
57026073	IPL device not ready
FRU List:	
MEDIA	
FI01105	
USER	
57026075	I/O processor resource not available
FRU List:	
AJDGP01	
57026076	I/O processor card detected media error
FRU List:	
MEDIA	
AJDGP01	
FI01105	

57026081	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
57026082	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
57026083	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
57026085	I/O processor Licensed Internal Code error
FRU List:	
AJDGP01	
IOP	
MA_BRDG	
57026200	A permanent IOA hardware error occurred
FRU List:	
FCIOA	
OPT_CLN	
57026201	IOA LID is not valid
FRU List:	
AJDGP01	
57026602	An I/O processor Licensed Internal Code error occurred.
FRU List:	
AJDGP01	
57028000	A permanent IOP or cache adaptor card failure occurred.

Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

57028002 **A permanent cache adaptor card failure occurred.**

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

57028004 **Voltage drop detected on I/O processor 5 volt powersupply.**

FRU List:
FI01141

STORIOA

57028005 **A recoverable IOP or cache adaptor card error occurred.**

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

57028007 **A recoverable cache adaptor card error occurred.**

Service Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

57028010 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

57028011 **A permanent cache adaptor card failure occurred.**

Service Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

57028100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

57028130 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

57028131 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

57028132 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

57028133 **IOA detected recoverable device bus error**

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

57028140 IOA detected recoverable device bus error

Service Response:

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

57028141 IOA detected recoverable device error

Service Response:

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

57028145 A recoverable I/O processor error occurred.

FRU List:
STORIOA

57028146 Disk device detected recoverable error

FRU List:
FI01105

57028150 A permanent I/O processor failure occurred

FRU List:
STORIOA

ANYBRDG

57028151 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

STORIOA

57028155 A permanent I/O processor failure occurred

FRU List:
AJDGP01

STORIOA

57028156 A permanent I/O processor failure occurred

FRU List:
AJDGP01

STORIOA

57028157 I/O adapter card error

Service Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

57028200 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

57028300 I/O processor card or Licensed Internal Code error

Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
STORIOA

IOP

AJDGP01

57028301 Not valid condition in I/O Processor Licensed InternalCode

Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
FI01101

AJDGP01

IOP

57028400 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

57029000 I/O processor card detected device error

FRU List:
FI01105

STORIOA

57029001 I/O processor card detected device configuration error

Service Response:
Perform IOPIP33.

FRU List:
SVCDOCS

57029002 I/O processor card detected device error

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

57029008 I/O card does not support functions expected by devices

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

57029009 Call your next level of support for assistance

FRU List:
SVCDOCS

57029010 Cache data associated with attached devices cannot be found . Perform IOPIP31.

FRU List:
SVCDOCS

57029011 Cache data belongs to devices other than those attached

Service Response:
Perform IOPIP32.

FRU List:
SVCDOCS

57029012 IOP requires a cache adaptor card but cannot find it.

Service Response:
The cache adapter card is missing or broken. Perform IOPIP29.

FRU List:
CACHE

57029013 The IOP and attached cache adaptor card are not compatible.

Service Response:
Perform IOPIP19.

FRU List:
SVCDOCS

57029020 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

57029021 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

57029022 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57029023 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57029024 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57029025 **Disk unit is not supported at its physical location.**

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

57029026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57029027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

57029028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

57029029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

5702902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more

than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

57029030 **Array no longer protected due to missing or failed disk unit.**

Service Response:
Perform isolation procedure IOPIP21.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

57029031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

57029040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

57029041 **Background array parity check detected and corrected errors.**

Service Response:
Call your next level of support to report the problem.

FRU List:
AJDGP01

57029050 **Required cache data cannot be located for a disk unit.**

Service Response:
Perform IOPIP30.

FRU List:
SVCDOCS

57029051 **IOP cache data exists for a missing or failed device.**

Service Response:
If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

57029052 **Cache data exists for device that has been modified.**

Service Response:
Perform IOPIP28.

FRU List:
SVCDOCS

57029053 **IOP resources not available due to previous problems.**

Service Response:
Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

57029054 **IOP resources not available due to previous problems.**

Service Response:
Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

57029081 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

57029082 **I/O processor card detected device error**

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

57029090 **Disk unit has been modified after the last known status.**

Service Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

57029091 **Incorrect hardware configuration change has been detected.**

Service Response:
Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

57029092 **Disk unit requires initialization before use.**

Service Response:
Perform IOPIP26.

FRU List:
SVCDOCS

5702B3B1 **A permanent I/O processor failure occurred**

FRU List:
IOP

5702B3B2 **A permanent I/O processor failure occurred**

FRU List:
IOP

5702B3B3 **A permanent I/O processor failure occurred**

FRU List:
IOP

5702B3B4 **A permanent I/O processor failure occurred**

FRU List:
IOP

5702B3B5 A permanent I/O processor failure occurred

FRU List:
IOP

5702B3B6 A permanent I/O processor failure occurred

FRU List:
IOP

5702B3B7 A permanent I/O processor failure occurred

FRU List:
IOP

5702B3B8 Multi-adapter bridge error detected.

FRU List:
MA_BRDG

IOP

5702B3B9 A permanent I/O processor failure occurred

FRU List:
IOP

5702B3E0 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

5702B3E1 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

5702B410 A permanent I/O processor failure occurred

FRU List:
STORIOA

5702B411 A permanent I/O processor failure occurred

FRU List:
STORIOA

5702B412 Tape/CD or disk bus interface error occurred

Servicer Response:
Perform IOPIP16.

FRU List:
FI01107

FI01140

STORIOA

DEVTERM

5702B935 Unknown hardware detected

FRU List:
FI01101

AJDGP01

IOP

MA_BRDG

5702BE00 I/O processor detected a fault condition.

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

5702FF3D I/O adapter detected a recoverable error

FRU List:
STORIOA

ANYBRDG

5702FF6D I/O processor detected a recoverable system bus error.

FRU List:
IOP

ANYBUS

570B0A17 A permanent I/O processor failure occurred

FRU List:
IOP

MA_BRDG

AJDGP01

AJDG301

570B0A22 I/O processor detected a storage transfer error**FRU List:**

AJDGP01

AJDG301

IOP

MA_BRDG

570B102E Out of alternate sectors for disk storage**FRU List:**

FI01105

570B1306 I/O processor card or Licensed Internal Code error**Servicer Response:**

A microprocessor exception occurred on the I/O processor.

FRU List:

AJDGP01

IOP

FI01104

BACKPLN

570B1307 I/O processor resource not available**FRU List:**

AJDGP01

AJDG301

570B1310 I/O processor resource not available**Servicer Response:**

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

570B1317 I/O processor card error**Servicer Response:**

Display the Service ActionLog entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:

SVCDOCS

570B2200 I/O processor Licensed Internal Code error**FRU List:**

AJDGP01

570B2201 Removable media error during IPL**FRU List:**

USER

FI01105

570B2202 Removable media error during IPL**FRU List:**

FI00022

FI01105

570B3000 A permanent I/O processor failure occurred**FRU List:**

FI01101

IOP

MA_BRDG

570B3001 Not valid condition in I/O Processor Licensed InternalCode**Servicer Response:**

The Licensed Internal Code found a condition that should not have occurred.

FRU List:

IOP

AJDGP01

570B3002 Addressed device failed to respond to selection**Servicer Response:**

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

FI01141

FI01106

570B3006 System bus error**FRU List:**
IOP

ANYBUS

FI01101

570B3020 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

570B3021 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

570B3022 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

570B3023 I/O processor detected a SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
USER

FI01107

STORIOA

570B3080 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

570B3081 System log entry only, no service action required.

570B3084 I/O processor card or Licensed Internal Code error**Servicer Response:**

A microprocessor exception occurred on the I/O processor.

FRU List:
AJDGP01

IOP

FI01104

MA_BRDG

570B3087 I/O processor resource not available**Servicer Response:**

The LicensedInternal Code could not allocate resources on the I/O processor card.

FRU List:
AJDGP01

AJDG301

IOACNFG

FI01104

570B3100 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

570B3101 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

570B3102 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

570B3103 I/O processor card detected interface error
Servicer Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

570B3109 I/O processor timed out a device command
Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

570B3110 I/O processor card detected interface error
Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

570B3120 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

570B3121 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

570B3122 I/O Processor detected that the bus is not operational
Servicer Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

570B3123 I/O Processor detected that the bus is not operational

Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:
SVCDOCS

570B3136 The removable media device is assigned elsewhere

FRU List:
USER

FI01105

570B3140 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

570B3141 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

570B3142 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

570B3143 I/O Processor detected that the bus is now operational

Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

570B3150 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOCS

570B3151 I/O processor detected a SCSI bus configuration error

Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

570B3200 A tape/CD or disk device reported a failure

FRU List:
FI01105

STORIOA

IOP

MEDIA

570B3203 Disk media format bad

FRU List:
FI01105

570B3205 Disk sector read error

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

570B3215 Disk sector read error

Service Response:

Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

FRU List:
FI01105

570B3250 **Disk unit requires initialization before use.**

Service Response:

Performa D-IPL and work on errors found in the log.

FRU List:

USER

570B3300 **Storage unit detected a media problem**

Service Response:

Perform IOPIP01.

FRU List:

MEDIA

FI00121

FI01141

570B3400 **I/O processor card detected device error**

Service Response:

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

DEVTERM

FI01140

570B3401 **Device backplane problem**

FRU List:

DEVBPLN

570B3501 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

570B3600 **System log entry only, no service action required.**

570B3601 **System log entry only, no service action required.**

570B6070 **A permanent I/O processor failure occurred**

FRU List:

IOP

570B6071 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

570B6072 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

570B6073 **IPL device not ready**

FRU List:

MEDIA

FI01105

USER

570B6075 **I/O processor resource not available**

FRU List:

AJDGP01

570B6076 **I/O processor card detected media error**

FRU List:

MEDIA

AJDGP01

FI01105

570B6081 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

570B6082 **I/O processor Licensed Internal Code error**

FRU List:

AJDGP01

IOP

570B6083	I/O processor Licensed Internal Code error
FRU List: AJDGP01	
IOP	
570B6085	I/O processor Licensed Internal Code error
FRU List: AJDGP01	
IOP	
MA_BRDG	
570B6200	A permanent IOA hardware error occurred
FRU List: FCIOA	
OPT_CLN	
570B6201	IOA LID is not valid
FRU List: AJDGP01	
570B6602	An I/O processor Licensed Internal Code error occurred.
FRU List: AJDGP01	
570B8000	A permanent IOP or cache adaptor card failure occurred.
Servicer Response:	
Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.	
FRU List: STORIOA	
CACHE	
570B8002	A permanent cache adaptor card failure occurred.
Servicer Response:	
Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.	
FRU List: CACHE	

STORIOA

570B8004 Voltage drop detected on I/O processor 5 volt powersupply.

FRU List:
FI01141

STORIOA

570B8005 A recoverable IOP or cache adaptor card error occurred.

Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
STORIOA

CACHE

570B8007 A recoverable cache adaptor card error occurred.

Servicer Response:

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

570B8010 A permanent cache adaptor card failure occurred.

Servicer Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:
CACHE

STORIOA

570B8011 A permanent cache adaptor card failure occurred.

Servicer Response:

The cache adaptor card may be missing, broken or incompatible.

Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

FRU List:

CACHE

STORIOA

570B8100 I/O processor Licensed Internal Code error
FRU List:
 AJDGP01

IOP

570B8130 IOA detected recoverable device bus error
Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

570B8131 IOA detected recoverable device bus error
Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

570B8132 IOA detected recoverable device bus error
Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

570B8133 IOA detected recoverable device bus error
Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

570B8140 IOA detected recoverable device bus error
Service Response:

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

570B8141 IOA detected recoverable device error
Service Response:

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

570B8145 A recoverable I/O processor error occurred.
FRU List:
 STORIOA

570B8146 Disk device detected recoverable error
FRU List:
 FI01105

570B8150 A permanent I/O processor failure occurred
FRU List:
 STORIOA

ANYBRDG

570B8151 I/O processor Licensed Internal Code error
FRU List:
 AJDGP01

STORIOA

570B8155 A permanent I/O processor failure occurred
FRU List:
 AJDGP01

STORIOA

570B8156 A permanent I/O processor failure occurred
FRU List:
 AJDGP01

STORIOA

570B8157 I/O adapter card error
Service Response:

Display the Service ActionLog entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
 SVCDOCS

570B8200 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

570B8300 **I/O processor card or Licensed Internal Code error**

Service Response:

A microprocessor exception occurred on the I/O processor.

FRU List:
STORIOA

IOP

AJDGP01

570B8301 **Not valid condition in I/O Processor Licensed InternalCode**

Service Response:

The Licensed Internal Code found a condition that should not have occurred.

FRU List:
FI01101

AJDGP01

IOP

570B8400 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

570B9000 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

570B9001 **I/O processor card detected device configuration error**

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

570B9002 **I/O processor card detected device error**

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

570B9008 **I/O card does not support functions expected by devices**

Service Response:

Perform IOPIP25.

FRU List:
SVCDOCS

570B9009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

570B9010 **Cache data associated with attached devices cannot be found . Perform IOPIP31.**

FRU List:
SVCDOCS

570B9011 **Cache data belongs to devices other than those attached**

Service Response:

Perform IOPIP32.

FRU List:
SVCDOCS

570B9012 **IOP requires a cache adaptor card but cannot find it.**

Service Response:

The cache adapter card is missing or broken. Perform IOPIP29.

FRU List:
CACHE

570B9013 The IOP and attached cache adaptor card are not compatible.

Service Response:
Perform IOPIP19.

FRU List:
SVCDOCS

570B9020 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

570B9021 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

570B9022 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

570B9023 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

570B9024 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

570B9025 Disk unit is not supported at its physical location.

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

570B9026 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

570B9027 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

570B9028 Incorrect hardware configuration change has been detected.

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

570B9029 Incorrect hardware configuration change has been detected.

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

570B902F Array addendum Product Activity Log entry

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

570B9030 Array no longer protected due to missing or failed disk unit.

Service Response:
Perform isolation procedure IOPIP21.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

570B9031 Array protection temporarily suspended**Service Response:**

No action required. Protection will be automatically restarted.

570B9040 Array protection temporarily suspended**Service Response:**

No action required. Protection will be automatically restarted.

570B9041 Background array parity check detected and corrected errors. Call your next level of support to report the problem.**Service Response:**

Call your next level of support to report the problem.

FRU List:

AJDGP01

570B9050 Required cache data cannot be located for a disk unit.**Service Response:**

Perform IOPIP30.

FRU List:

SVCDOS

570B9051 IOP cache data exists for a missing or failed device.**Service Response:**

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:

SVCDOS

570B9052 Cache data exists for device that has been modified.**Service Response:**

Perform IOPIP28.

FRU List:

SVCDOS

570B9053 IOP resources not available due to previous problems.**Service Response:**

Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOS

570B9054 IOP resources not available due to previous problems.**Service Response:**

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:

SVCDOS

570B9081 I/O processor card detected device error**FRU List:**

FI01105

STORIOA

570B9082 I/O processor card detected device error**Service Response:**

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

570B9090 Disk unit has been modified after the last known status.**Service Response:**

Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCDOS

570B9091 Incorrect hardware configuration change has been detected.**Service Response:**

Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCDOS

570B9092 Disk unit requires initialization before use.

Service Response:
Perform IOPIP26.

FRU List:
SVCDOCS

570BB3B1 A permanent I/O processor failure occurred

FRU List:
IOP

570BB3B2 A permanent I/O processor failure occurred

FRU List:
IOP

570BB3B3 A permanent I/O processor failure occurred

FRU List:
IOP

570BB3B4 A permanent I/O processor failure occurred

FRU List:
IOP

570BB3B5 A permanent I/O processor failure occurred

FRU List:
IOP

570BB3B6 A permanent I/O processor failure occurred

FRU List:
IOP

570BB3B7 A permanent I/O processor failure occurred

FRU List:
IOP

570BB3B8 Multi-adapter bridge error detected.

FRU List:
MA_BRDG

IOP

570BB3B9 A permanent I/O processor failure occurred

FRU List:
IOP

570BB3E0 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

570BB3E1 I/O processor detected a fault condition.

FRU List:
IOP

MA_BRDG

570BB410 A permanent I/O processor failure occurred

FRU List:
STORIOA

570BB411 A permanent I/O processor failure occurred

FRU List:
STORIOA

570BB412 Tape/CD or disk bus interface error occurred

Service Response:
Perform IOPIP16.

FRU List:
FI01107

FI01140

STORIOA

DEVTERM

570BB935 Unknown hardware detected

FRU List:
FI01101

AJDGP01

IOP

MA_BRDG

570BBE00 **I/O processor detected a fault condition.**
FRU List:
 AJDGP01

IOP

FI01104

MA_BRDG

FRU List:
 STORIOA

ANYBRDG

570BFF6D **I/O processor detected a recoverable system bus error.**
FRU List:
 IOP

ANYBUS

570BFF3D **I/O adapter detected a recoverable error**

(5703, 5709) Reference codes

(5703, 5709) Reference codes

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1.

57031310 **I/O processor resource not available**
Servicer Response:

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
 USER

57033006 **System bus error**
FRU List:
 IOP

ANYBUS

STORIOA

FI01107

STORIOA

57033022 **I/O processor detected a SCSI bus configuration error**
Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
 USER

FI01107

STORIOA

57033020 **I/O processor detected a SCSI bus configuration error**
Servicer Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
 USER

FI01107

STORIOA

57033023 **I/O processor detected a SCSI bus configuration error**
Servicer Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:
 USER

57033021 **I/O processor detected a SCSI bus configuration error**
Servicer Response:

FI01107

STORIOA

57033100 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57033101 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57033102 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57033103 I/O processor card detected interface error
Service Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57033120 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57033121 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57033122 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57033123 I/O Processor detected that the bus is not operational
Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57033140 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

57033141 I/O Processor detected that the bus is now operational
Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

57033142 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

57033143 **I/O Processor detected that the bus is now operational**

Servicer Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

57033150 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:
SVCDOCS

57033151 **I/O processor detected a SCSI bus configuration error**

Servicer Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:
SVCDOCS

57033400 **I/O processor card detected device error**

FRU List:
FI02112

STORIOA

FI01106

DEVTERM

FI01140

57033401 **Device backplane problem**

FRU List:
DEVBPLN

57033501 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

57033600 **System log entry only, no service action required**

57033601 **System log entry only, no service action required**

57038008 **A permanent cache battery pack failure occurred**

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

57038009 **Impending cache battery pack failure**

FRU List:
CACHBAT

57038012 **Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.**

FRU List:
SVCDOCS

57038100 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

IOP

57038130 **IOA detected recoverable device bus error**

Servicer Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

57038131 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

57038132 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

57038133 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

57038140 IOA detected recoverable device bus error

Servicer Response:

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

57038141 IOA detected recoverable device error

Servicer Response:

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

57038145 A recoverable I/O processor error occurred.

FRU List:
STORIOA

57038146 Disk device detected recoverable error

FRU List:
FI01105

57038150 A permanent I/O processor failure occurred

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

57038151 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

STORIOA

57038155 A permanent I/O processor failure occurred

FRU List:
AJDGP01

STORIOA

57038156 A permanent I/O processor failure occurred

FRU List:
AJDGP01

STORIOA

57038157 I/O adapter card error

Servicer Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the **VRYCFG RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

57038200 I/O processor Licensed Internal Code error

FRU List:
AJDGP01

IOP

57039000 I/O processor card detected device error

FRU List:
FI01105

STORIOA

57039001 I/O processor card detected device configuration error

Service Response:
Perform IOPIP33.

FRU List:
SVCDOCS

57039002 I/O processor card detected device error

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

57039008 I/O card does not support functions expected by devices

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

57039009 Call your next level of support for assistance

FRU List:
SVCDOCS

57039010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOCS

57039011 Cache data belongs to devices other than those attached

Service Response:
Perform IOPIP32.

FRU List:
SVCDOCS

57039014 Mode jumper overridden due to cache data in conflicting mode See JOVERRIDE.

FRU List:
SVCDOCS

57039015 Mode jumper missing

Service Response:

See *Mode jumper is missing in Storage I/O card modes and jumpers.*

FRU List:
SVCDOCS

57039020 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

57039021 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:
SVCDOCS

57039022 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57039023 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57039024 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57039025 Disk unit is not supported at its physical location.

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

57039026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57039027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

57039028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOCS

57039029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

5703902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

57039030 **Array no longer protected due to missing or failed disk unit.**

Service Response:
Perform isolation procedure IOPIP21.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

57039031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

57039040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

57039041 **Background array parity check detected and corrected errors.**

Service Response:
Call your next level of support to report the problem.

FRU List:
AJDGP01

57039050 **Required cache data cannot be located for a disk unit.**

Service Response:
Perform IOPIP30.

FRU List:
SVCDOCS

57039051 **IOP cache data exists for a missing or failed device.**

Service Response:
If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

57039052 **Cache data exists for device that has been modified.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

57039053 **IOP resources not available due to previous problems.**

Service Response:
Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

57039054 **IOP resources not available due to previous problems.**

Servicer Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

57039071 **Link from IOA to auxiliary cache IOA went operational**

Servicer Response:

No service action required.

57039072 **Link from IOA to auxiliary cache IOA went non-operational**

Servicer Response:

No service action required.

57039073 **Incompatible or non-operational auxiliary cache IOA attached.**

Servicer Response::

Perform isolation procedure IOPIP40.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

57039081 **I/O processor card detected device error**

FRU List:
FI01105

STORIOA

57039082 **I/O processor card detected device error**

Servicer Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

57039090 **Disk unit has been modified after the last known status.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

57039091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

57039092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:
SVCDOCS

57039093 **Read cache device not in correct format**

Servicer Response:

Contact your next level of support.

FRU List:
SVCDOCS

5703B934 **Incompatible hardware detected.**

FRU List:
STORIOA

5703FF3D **I/O adapter detected recoverable error**

FRU List:
STORIOA

ANYBRDG

5703FF6D **I/O processor detected a recoverable system bus error**

FRU List:
IOP

ANYBUS

57091310 I/O processor resource not available**Service Response:**

The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

57093006 System bus error**FRU List:**

IOP

ANYBUS

STORIOA

57093020 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

57093021 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

57093022 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

57093023 I/O processor detected a SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.

FRU List:

USER

FI01107

STORIOA

57093100 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57093101 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57093102 I/O processor card detected interface error**Service Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57093103 **I/O processor card detected interface error**

Service Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

57093120 **I/O Processor detected that the bus is not operational**

Service Response:

A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

57093121 **I/O Processor detected that the bus is not operational**

Service Response:

A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

57093122 **I/O Processor detected that the bus is not operational**

Service Response:

A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

57093123 **I/O Processor detected that the bus is not operational**

Service Response:

A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

57093140 **I/O Processor detected that the bus is now operational**

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

57093141 **I/O Processor detected that the bus is now operational**

Service Response:

This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

57093142 **I/O Processor detected that the bus is now operational**

Service Response:

This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

57093143 **I/O Processor detected that the bus is now operational**

Service Response:

This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

57093150 **I/O processor detected a SCSI bus configuration error**

Service Response:

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

57093151 **I/O processor detected a SCSI bus configuration error**

Service Response:

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

57093400 **I/O processor card detected device error**

FRU List:

FI02112

STORIOA

FI01106

DEVTERM

FI01140

57093401 Device backplane problem**FRU List:**
DEVBPLN

57093501 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

IOP

57093600 System log entry only, no service action required

57093601 System log entry only, no service action required

57098008 A permanent cache battery pack failure occurred**Service Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

57098009 Impending cache battery pack failure**FRU List:**
CACHBAT

57098012 Attached read cache devices exceed capacity supported by IOA. Reduce the number of read caches on the IOA.**FRU List:**
SVCDOCS

57098100 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01

IOP

57098130 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

57098131 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

57098132 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

57098133 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

57098140 IOA detected recoverable device bus error**Service Response:**

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

57098141 IOA detected recoverable device error**Service Response:**

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

57098145 A recoverable I/O processor error occurred.**FRU List:**
STORIOA

57098146 Disk device detected recoverable error**FRU List:**
FI01105

57098150 A permanent I/O processor failure occurred**Service Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOAANYBRDG

57098151 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01STORIOA

57098155 A permanent I/O processor failure occurred**FRU List:**
AJDGP01STORIOA

57098156 A permanent I/O processor failure occurred**FRU List:**
AJDGP01STORIOA

57098157 I/O adapter card error**Service Response:**

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to

re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the **VRYCFG RESET(*YES)** command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

57098200 I/O processor Licensed Internal Code error**FRU List:**
AJDGP01IOP

57099000 I/O processor card detected device error**FRU List:**
FI01105STORIOA

57099001 I/O processor card detected device configuration error**Service Response:**
Perform IOPIP33.**FRU List:**
SVCDOCS

57099002 I/O processor card detected device error**Service Response:**
Perform IOPIP16.**FRU List:**
FI01105STORIOA

FI01140

BACKPLN

FI01106

57099008 I/O card does not support functions expected by devices**Service Response:**
Perform IOPIP25.**FRU List:**
SVCDOCS

57099009 Call your next level of support for assistance

FRU List:
SVCDOS

57099010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOS

57099011 Cache data belongs to devices other than those attached

Servicer Response:
Perform IOPIP32.

FRU List:
SVCDOS

57099014 Mode jumper overridden due to cache data in conflicting mode. See JOVERRIDE.

FRU List:
SVCDOS

57099015 Mode jumper missing

Servicer Response:
See Mode jumper is missing in Storage I/O card modes and jumpers.

FRU List:
SVCDOS

57099020 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOS

57099021 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOS

57099022 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:

SVCDOS

57099023 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOS

57099024 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOS

57099025 Disk unit is not supported at its physical location.

Servicer Response:
Perform IOPIP21.

FRU List:
SVCDOS

57099026 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOS

57099027 Array not functional due to present hardware configuration.

Servicer Response:
Perform IOPIP34.

FRU List:
SVCDOS

57099028 Incorrect hardware configuration change has been detected.

Servicer Response:
Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

FRU List:
SVCDOS

57099029 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Contact your next level of support.

FRU List:
SVCDOCS

5709902F **Array addendum Product Activity Log entry**

Servicer Response:

This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

57099030 **Array no longer protected due to missing or failed disk unit.**

Servicer Response::

Perform isolation procedure IOPIP21.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:
SVCDOCS

57099031 **Array protection temporarily suspended**

Servicer Response:

No action required. Protection will be automatically restarted.

57099040 **Array protection temporarily suspended**

Servicer Response:

No action required. Protection will be automatically restarted.

57099041 **Background array parity check detected and corrected errors. Call your next level of support to report the problem.**

Servicer Response::

Call your next level of support to report the problem.

FRU List:
AJDGP01

57099050 **Required cache data cannot be located for a disk unit.**

Servicer Response:

Perform IOPIP30.

FRU List:
SVCDOCS

57099051 **IOP cache data exists for a missing or failed device.**

Servicer Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

57099052 **Cache data exists for device that has been modified.**

Servicer Response:

Contact your next level of support.

FRU List:
SVCDOCS

57099053 **IOP resources not available due to previous problems.**

Servicer Response:

Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

57099054 **IOP resources not available due to previous problems.**

Servicer Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

FRU List:
SVCDOCS

57099071 **Link from IOA to auxiliary cache IOA went operational**

Servicer Response:

No service action required.

57099072 **Link from IOA to auxiliary cache IOA went non-operational**

Servicer Response:

No service action required.

57099073 **Incompatible or non-operational auxiliary cache IOA attached.**

Servicer Response::

Perform isolation procedure IOPIP40.

Tip: All of the isolation procedures are located in your host server's service guide.

FRU List:

SVCDOS

57099081 **I/O processor card detected device error**

FRU List:

FI01105

STORIOA

57099082 **I/O processor card detected device error**

Servicer Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

57099090 **Disk unit has been modified after the last known status.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCDOS

57099091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced, go to the list of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCDOS

57099092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:

SVCDOS

57099093 **Read cache device not in correct format**

Servicer Response:

Contact your next level of support.

FRU List:

SVCDOS

5709B934 **Incompatible hardware detected.**

FRU List:

STORIOA

5709FF3D **I/O adapter detected recoverable error**

FRU List:

STORIOA

ANYBRDG

5709FF6D **I/O processor detected a recoverable system bus error**

FRU List:

IOP

ANYBUS

(5704) Reference Codes

(5704) Reference Codes

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1.

57043020 **I/O processor detected a configuration error**

Service Response:

Eithertoo many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

FRU List:
SVCDOCS

57043100 **I/O processor card detected interface error**

FRU List:
FCINTF

ANYFC

FCIOA

OPT_CLN

57043120 **I/O processor detected a port failure**

FRU List:
FCPORT

FCIOA

FCDEV

OPT_CLN

57043140 **I/O Processor detected that a port is now operational**

Service Response:

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

57043400 **I/O processor card detected device error**

FRU List:
FCDEV

FCINTF

ANYFC

FCIOA

OPT_CLN

570434FF **Format in progress**

Service Response:

The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

57048130 **Recovered Fibre Channel interface error**

Service Response:

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

57048140 **Recovered Fibre Channel interface error**

Service Response:

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

57048141 **IOA detected recoverable device error**

Service Response:

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

57048145 **A recoverable I/O processor error occurred.**

FRU List:
FCIOA

OPT_CLN

57048146 **Disk device detected recoverable error**

FRU List:
FCDEV

57048150 **A permanent I/O processor failure occurred**

FRU List:
FCIOA

ANYBRDG

OPT_CLN

57048151 **I/O processor Licensed Internal Code error**

FRU List:
AJDGP01

FCIOA

IOP

OPT_CLN

57048155 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

FCIOA

OPT_CLN

57048156 **A permanent I/O processor failure occurred**

FRU List:
AJDGP01

FCIOA

OPT_CLN

57049091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

57049092 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see *Debug the resource*. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

5704FF3D **Recovered IOA error**

FRU List:
FCIOA

ANYBRDG

OPT_CLN

(5706, 5707) Reference codes

5706, 5707 Reference codes.

Find the reference code in the following list.

5706A001 **I/O adapter Licensed Internal Code error detected**

FRU List:
AJDGP01

5706B9B0 **I/O adapter hardware error detected**

FRU List:
IOA

AJDGP01

5707A001 **I/O adapter Licensed Internal Code error detected**

FRU List:
AJDGP01

5707B9B0 **I/O adapter hardware error detected**

FRU List:
IOA

AJDGP01

(5708, 574F, 575B) Reference codes

5708, 574F, 575B Reference codes

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1. Find the reference code in the following list.

57081310 **I/O adapter resource not available**

Service Response:

The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

57083006 **System bus error**

FRU List:
AUXIOA

ANYBRDG

IOP

57083100 **Interface error**

Service Response:

Error occurred on SCSI bus 0.

FRU List:
AUXCBL

AUXIOA

PRIMIOA

57083101 **Interface error**

Service Response:

Error occurred on SCSI bus 1.

FRU List:

AUXCBL

AUXIOA

PRIMIOA

57083400 **SCSI resource error**

FRU List:
AUXCBL

PRIMIOA

57086075 **I/O processor resource not available**

FRU List:
PTFSRCH

57088008 **A permanent cache battery pack failure occurred.**

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

AUXIOA

57088009 Impending cache battery pack failure**FRU List:**
CACHBAT**57088130 IOA detected recoverable SCSI bus error****Service Response:**

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

57088131 IOA detected recoverable SCSI bus error**Service Response:**

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

57088140 IOA detected recoverable SCSI bus error**Service Response:**

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

57088141 IOA detected recoverable SCSI resource error**Service Response:**

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

57088145 A recoverable error occurred**FRU List:**
AUXIOA**57088150 A permanent failure occurred.****Service Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
AUXIOA

ANYBRDG

57088151 Licensed Internal Code error**FRU List:**
PTFSRCH

AUXIOA

57088155 A permanent failure occurred**FRU List:**
PTFSRCH

AUXIOA

57088156 A permanent failure occurred**FRU List:**
PTFSRCH

AUXIOA

57088157 I/O adapter card error**Service Response:**

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to: 1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On. 2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS**57088300 IOA hardware or PCI bus error****FRU List:**
AUXIOA

ANYBRDG

PTFSRCH

57088301 Not valid condition in Licensed Internal Code**FRU List:**
PTFSRCH

AUXIOA

57088302 Missing Licensed Internal Code**Service Response:**

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:
SVCDOCS

AUXIOA

57089055 **Write cache data is available for attached storage IOA**

Servicer Response:

No service action required.

57089071 **Link from IOA to auxiliary cache IOA went operational**

Servicer Response:

No service action required.

57089072 **Link from IOA to auxiliary cache IOA went non-operational**

Servicer Response:

No service action required.

57089073 **Disconnected, incompatible, or non-operational storage IOA. Perform isolation procedure IOPIP41. To review isolation procedure IOPIP41, go to your host server's service guide.**

FRU List:
SVCDOS

5708FF3D **I/O adapter detected a recoverable error**

FRU List:
AUXIOA

ANYBRDG

574F1310 **I/O adapter resource not available**

Servicer Response:

The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

574F3006 **System bus error**

FRU List:
AUXIOA

ANYBRDG

IOP

574F3100 **Interface error**

Servicer Response:

Error occurred on SCSI bus 0.

FRU List:
AUXCBL

AUXIOA

PRIMIOA

574F3101 **Interface error**

Servicer Response:

Error occurred on SCSI bus 1.

FRU List:
AUXCBL

AUXIOA

PRIMIOA

574F3400 **SCSI resource error**

FRU List:
AUXCBL

PRIMIOA

574F6075 **I/O processor resource not available**

FRU List:
PTFSRCH

574F8008 **A permanent cache battery pack failure occurred**

Servicer Response::

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

AUXIOA

574F8009 **Impending cache battery pack failure**

FRU List:
CACHBAT

574F8130 **IOA detected recoverable SCSI bus error**

Servicer Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

574F8131 IOA detected recoverable SCSI bus error**Servicer Response:**

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

574F8140 IOA detected recoverable SCSI bus error**Servicer Response:**

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

574F8141 IOA detected recoverable SCSI resource error**Servicer Response:**

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

574F8145 A recoverable error occurred**FRU List:**

AUXIOA

574F8150 A permanent failure occurred**Servicer Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

AUXIOA

ANYBRDG

574F8151 Licensed Internal Code error**FRU List:**

PTFSRCH

AUXIOA

574F8155 A permanent failure occurred**FRU List:**

PTFSRCH

AUXIOA

574F8156 A permanent failure occurred**FRU List:**

PTFSRCH

AUXIOA

574F8157 I/O adapter card error**Servicer Response:**

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:

SVCDOCS

574F8300 IOA hardware or PCI bus error**FRU List:**

AUXIOA

ANYBRDG

PTFSRCH

574F8301 Not valid condition in Licensed Internal Code**FRU List:**

PTFSRCH

AUXIOA

574F8302 Missing Licensed Internal Code**Servicer Response:**

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:

SVCDOCS

AUXIOA

574F9055 Write cache data is available for attached storage IOA**Servicer Response:**

No service action required.

574F9071 **Link from IOA to auxiliary cache IOA went operational**

Servicer Response:

No service action required.

574F9072 **Link from IOA to auxiliary cache IOA went non-operational**

Servicer Response:

No service action required.

574F9073 **Disconnected, incompatible, or non-operational storage IOA. Perform isolation procedure IOPIP41. To review isolation procedure IOPIP41, go to your host server's service guide.**

FRU List:

SVCDOS

574FFF3D **I/O adapter detected a recoverable error**

FRU List:

AUXIOA

ANYBRDG

575B1310 **I/O adapter resource not available**

Servicer Response:

The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

575B3006 **System bus error**

FRU List:

AUXIOA

ANYBRDG

IOP

575B3100 **Interface error**

Servicer Response:

Error occurred on SCSI bus 0.

FRU List:

AUXCBL

AUXIOA

PRIMIOA

575B3101 **Interface error**

Servicer Response:

Error occurred on SCSI bus 1.

FRU List:

AUXCBL

AUXIOA

PRIMIOA

575B3400 **SCSI resource error**

FRU List:

AUXCBL

PRIMIOA

575B6075 **I/O processor resource not available**

FRU List:

PTFSRCH

575B8008 **A permanent cache battery pack failure occurred**

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACHBAT

AUXIOA

575B8009 **Impending cache battery pack failure**

FRU List:

CACHBAT

575B8130 **IOA detected recoverable SCSI bus error**

Servicer Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

575B8131 **IOA detected recoverable SCSI bus error**

Servicer Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

575B8140 IOA detected recoverable SCSI bus error**Service Response:**

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

575B8141 IOA detected recoverable SCSI resource error**Service Response:**

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

575B8145 A recoverable error occurred**FRU List:**

AUXIOA

575B8150 A permanent failure occurred**Service Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

AUXIOA

ANYBRDG

575B8151 Licensed Internal Code error**FRU List:**

PTFSRCH

AUXIOA

575B8155 A permanent failure occurred**FRU List:**

PTFSRCH

AUXIOA

575B8156 A permanent failure occurred**FRU List:**

PTFSRCH

AUXIOA

575B8157 I/O adapter card error**Service Response:**

Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.

FRU List:

SVCDOCS

575B8300 IOA hardware or PCI bus error**FRU List:**

AUXIOA

ANYBRDG

PTFSRCH

575B8301 Not valid condition in Licensed Internal Code**FRU List:**

PTFSRCH

AUXIOA

575B8302 Missing Licensed Internal Code**Service Response:**

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:

SVCDOCS

AUXIOA

575B9055 Write cache data is available for attached storage IOA**Service Response:**

No service action required.

575B9071 Link from IOA to auxiliary cache IOA went operational**Service Response:**

No service action required.

575B9072 **Link from IOA to auxiliary cache IOA went non-operational**

Servicer Response:

No service action required.

575B9073 **Disconnected, incompatible, or non-operational storage IOA. Perform isolation procedure IOPIP41. To review isolation procedure IOPIP41, go to your host server's service guide.**

FRU List:
SVCDOCS

575BFF3D **I/O adapter detected a recoverable error**

FRU List:
AUXIOA

ANYBRDG

576B, 5774, and 57FC reference codes

576B, 5774, and 57FC reference codes

576B3020 **Configuration error on port 0**

Servicer Response:

Too many devices have been configured on port 0.
Change the configuration.

FRU List:
SVCDOCS

FCIOA

OPT_CLN

576B3021 **Configuration error on port 1**

Servicer Response:

Too many devices have been configured on port 1.
Change the configuration.

FRU List:
SVCDOCS

576B3120 **A port failure was detected on port 0**

Servicer Response:

FRU List:

FCPORT

FCIOA

576B3100 **Interface error on port 0**

Servicer Response:

FRU List:

FCINTF

ANYFC

FCIOA

OPT_CLN

FCDEV

OPT_CLN

576B3121 **A port failure was detected on port 1**

Servicer Response:

FRU List:

FCPORT

FCIOA

576B3101 **Interface error on port 1**

Servicer Response:

FRU List:

FCINTF

ANYFC

FCDEV

OPT_CLN

576B3140 **Port 0 is now operational**

Servicer Response:

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

FRU List:**576B3141 Port 1 is now operational****Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

FRU List:**576B3400 Device error****Servicer Response:****FRU List:**

FCDEV

FCINTF

ANYFC

FCIOA

OPT_CLN

576B34FF Format in progress**Servicer Response:**

The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

FRU List:**576B8130 Recovered Fibre Channel interface error on port 0****Servicer Response:**

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

FRU List:**576B8131 Recovered Fibre Channel interface error on port 1****Servicer Response:**

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

FRU List:**576B8150 A permanent I/O adapter failure occurred****Servicer Response:****FRU List:**

FCIOA

ANYBRDG

OPT_CLN

576B8300 IOA hardware error or PCI bus error**Servicer Response:****FRU List:**

FCIOA

ANYBRDG

PTFSRCH

OPT_CLN

576B8301 Not valid condition in Licensed Internal Code**Servicer Response:****FRU List:**

PTFSRCH

FCIOA

OPT_CLN

576B8302 Missing Licensed Internal Code**Servicer Response:**

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:

SVCDOCS

FCIOA

OPT_CLN

57743020 Configuration error on port 0**Servicer Response:**

Too many devices have been configured on port 0.
Change the configuration.

FRU List:
SVCDOCS

57743021 Configuration error on port 1**Servicer Response:**

Too many devices have been configured on port 1.
Change the configuration.

FRU List:
SVCDOCS

57743100 Interface error on port 0**Servicer Response:****FRU List:**

FCINTF

ANYFC

FCIOA

OPT_CLN

57743101 Interface error on port 1**Servicer Response:****FRU List:**

FCINTF

ANYFC

FCIOA

OPT_CLN

57743120 A port failure was detected on port 0**Servicer Response:****FRU List:**

FCPORT

FCIOA

FCDEV

OPT_CLN

57743121 A port failure was detected on port 1**Servicer Response:****FRU List:**

FCPORT

FCIOA

FCDEV

OPT_CLN

57743140 Port 0 is now operational**Servicer Response:**

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

FRU List:

57743141 Port 1 is now operational**Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

FRU List:

57743400 Device error**Servicer Response:****FRU List:**

FCDEV

FCINTF

ANYFC

FCIOA

OPT_CLN

577434FF Format in progress**Service Response:**

The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

FRU List:

57748130 Recovered Fibre Channel interface error on port 0**Service Response:**

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

FRU List:

57748131 Recovered Fibre Channel interface error on port 1**Service Response:**

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

FRU List:

57748150 A permanent I/O adapter failure occurred**Service Response:****FRU List:**

FCIOA

ANYBRDG

OPT_CLN

57748300 IOA hardware error or PCI bus error**Service Response:****FRU List:**

FCIOA

ANYBRDG

PTFSRCH

OPT_CLN

57748301 Not valid condition in Licensed Internal Code**Service Response:****FRU List:**

PTFSRCH

FCIOA

OPT_CLN

57748302 Missing Licensed Internal Code**Service Response:**

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:

SVCDOCS

FCIOA

OPT_CLN

57FC3020 Configuration error on port 0**Service Response:**

Too many devices have been configured on port 0. Change the configuration.

FRU List:

SVCDOCS

57FC3021 Configuration error on port 1**Service Response:**

Too many devices have been configured on port 1. Change the configuration.

FRU List:

SVCDOCS

57FC3100 Interface error on port 0**Service Response:****FRU List:**

FCINTF

ANYFC

FCIOA

OPT_CLN

57FC3101 Interface error on port 1**Service Response:****FRU List:**

FCINTF

ANYFC

FCIOA

OPT_CLN

57FC3120 A port failure was detected on port 0**Service Response:****FRU List:**

FCPORT

FCIOA

FCDEV

OPT_CLN

57FC3121 A port failure was detected on port 1**Service Response:****FRU List:**

FCPORT

FCIOA

FCDEV

OPT_CLN

57FC3140 Port 0 is now operational**Service Response:**

This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

FRU List:

57FC3141 Port 1 is now operational**Service Response:**

This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

FRU List:

57FC3400 Device error**Service Response:****FRU List:**

FCDEV

FCINTF

ANYFC

FCIOA

OPT_CLN

57FC34FF Format in progress**Service Response:**

The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

FRU List:

57FC8130 Recovered Fibre Channel interface error on port 0**Service Response:**

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

FRU List:

57FC8131 Recovered Fibre Channel interface error on port 1**Service Response:**

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

FRU List:

57FC8150 A permanent I/O adapter failure occurred

Servicer Response:

FRU List:

FCIOA

ANYBRDG

OPT_CLN

57FC8300 IOA hardware error or PCI bus error

Servicer Response:

FRU List:

FCIOA

ANYBRDG

PTFSRCH

OPT_CLN

57FC8301 Not valid condition in Licensed Internal Code

Servicer Response:

FRU List:

PTFSRCH

FCIOA

OPT_CLN

57FC8302 Missing Licensed Internal Code

Servicer Response:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:

SVCDOS

FCIOA

OPT_CLN

(571A, 571B, 571E, 571F, 573D, 573E, 57FF) Reference codes

571A, 571B, 571E, 571F, 573D, 573E, 57FF Reference codes.

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1. Find the reference code in the following list.

571A3000 A permanent failure occurred

FRU List:

FI01101

ANYBRDG

571A3006 System bus error

FRU List:

FI01101

ANYBRDG

PTFSRCH

571A3020 SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

571A3021 SCSI bus configuration error

Servicer Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

571A3022 SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

571A3023 SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

571A3100 Interface error Error occurred on SCSI bus 0.**Service Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571A3101 Interface error Error occurred on SCSI bus 1.**Service Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571A3102 Interface error Error occurred on SCSI bus 2.**Service Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571A3103 Interface error Error occurred on SCSI bus 3.**Service Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571A3120 Bus is not operational**Service Response:**

Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

571A3121 Bus is not operational**Service Response:**

Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

571A3122 Bus is not operational**Service Response:**

Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

571A3123 Bus is not operational**Servicer Response:**

Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOS

571A3140 Bus is operational**Servicer Response:**

This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

571A3141 Bus is operational**Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

571A3142 Bus is operational**Servicer Response:**

This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

571A3143 Bus is operational**Servicer Response:**

This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

571A3150 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

571A3151 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

571A3200 A tape/CD or disk device reported a failure**FRU List:**

FI01105

STORIOA

MEDIA

571A3202 Storage subsystem configuration error**Servicer Response:**

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:

SVCDOS

571A3400 Device error**Servicer Response:**

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

FI01140

571A3401 Device backplane problem**FRU List:**

DEVBPLN

571A3501 Licensed Internal Code error**Servicer Response:**

The device type is either unsupported or the code has not been loaded to support it.

FRU List:

FI01105

PTFSRCH

571A3601 System log entry only, no service action required

571A8008 A permanent cache battery pack failure occurred**Servicer Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the

Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
CACHBAT

STORIOA

571A8009 Impending cache battery pack failure

FRU List:
CACHBAT

571A8100 Licensed Internal Code error

FRU List:
PTFSRCH

STORIOA

571A8130 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

571A8131 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

571A8132 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

571A8133 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

571A8140 IOA detected recoverable device bus error

Service Response:

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

571A8141 IOA detected recoverable device error

Service Response:

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

571A8145 A recoverable error occurred

FRU List:
STORIOA

571A8146 Disk device detected recoverable error

FRU List:
FI01105

571A8150 A permanent failure occurred

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

571A8151 Licensed Internal Code error

FRU List:
PTFSRCH

STORIOA

571A8155 A permanent failure occurred

FRU List:
PTFSRCH

STORIOA

571A8156 A permanent failure occurred

FRU List:
PTFSRCH

STORIOA

571A8157 I/O adapter card error

Service Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace

the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(*YES)" command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

571A8300 IOA hardware error or PCI bus error

FRU List:
STORIOA

ANYBRDG

PTFSRCH

571A8301 Not valid condition in Licensed Internal Code

FRU List:
PTFSRCH

STORIOA

571A8302 Missing Licensed Internal Code

Service Response:
Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:
SVCDOCS

STORIOA

571A8400 Licensed Internal Code error

FRU List:
PTFSRCH

571A8404 System log entry only, no service action required.

571A9000 Device error.

FRU List:
FI01105

STORIOA

571A9001 Device configuration error.

Service Response:
Perform IOPIP33.

FRU List:
SVCDOCS

571A9002 Device error.

Service Response:
Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

571A9008 I/O card does not support functions expected by devices.

Service Response:
Perform IOPIP25.

FRU List:
SVCDOCS

571A9009 Call your next level of support for assistance.

FRU List:
SVCDOCS

571A9010 Cache data associated with attached devices cannot be found. Perform IOPIP31.

FRU List:
SVCDOCS

571A9011 Cache data belongs to devices other than those attached.

Service Response:
Perform IOPIP32.

FRU List:
SVCDOCS

571A9020 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP20.

FRU List:

SVCDOCS

571A9021 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP20.

FRU List:
SVCDOCS

571A9022 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571A9023 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571A9024 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571A9025 **Disk unit is not supported at its physical location.**

Servicer Response:
Perform IOPIP21.

FRU List:
SVCDOCS

571A9026 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571A9027 **Array not functional due to present hardware configuration.**

Servicer Response:
Perform IOPIP34.

FRU List:
SVCDOCS

571A9028 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:
SVCDOCS

571A9029 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Contact your next level of support.

FRU List:
SVCDOCS

571A902F **Array addendum Product Activity Log entry**

Servicer Response:

This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

571A9030 **Array no longer protected due to missing or failed disk unit.**

Servicer Response:

Perform isolation procedure IOPIP21. To review isolation procedure IOPIP21, go to your host server's service guide.

FRU List:
FI02112

SVCDOCS

571A9031 **Array protection temporarily suspended**

Servicer Response:

No action required. Protection will be automatically restarted.

571A9032 **A disk unit in a RAID array is missing or failed**

Servicer Response:

The array is still protected, but the disk unit should be replaced. Perform IOPIP21.

FRU List:
FI02112

SVCDOCS

571A9040 Array protection temporarily suspended**Servicer Response:**

No action required. Protection will be automatically restarted.

571A9041 Background array parity check detected and corrected errors.**Servicer Response:**

Call your next level of support to report the problem.

FRU List:

PTFSRCH

571A9042 An array parity error has been detected and corrected**Servicer Response:**

Call your next level of support to report the problem.

FRU List:

NEXTLVL

571A9050 Required cache data cannot be located for a disk unit.**Servicer Response:**

Perform IOPIP30.

FRU List:

SVCDOCS

571A9051 Cache data exists for a missing or failed device**Servicer Response:**

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:

SVCDOCS

571A9052 Cache data exists for device that has been modified.**Servicer Response:**

Contact your next level of support.

FRU List:

SVCDOCS

571A9053 IOA resources not available due to previous problems**Servicer Response:**

Take action on other reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:

SVCDOCS

571A9054 IOA resources not available due to previous problems**Servicer Response:**

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:

SVCDOCS

571A9071 Link from IOA to auxiliary cache IOA went operational**Servicer Response:**

No service action required.

571A9072 Link from IOA to auxiliary cache IOA went non-operational**Servicer Response:**

No service action required.

571A9073 Incompatible or non-operational auxiliary cache IOA attached.**Servicer Response:**

Perform isolation procedure IOPIP40. To review isolation procedure IOPIP40, go to your host server's service guide.

FRU List:

SVCDOCS

571A9081 Device error**FRU List:**

FI01105

STORIOA

571A9082 Device error**Servicer Response:**

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

571A9090 **Disk unit has been modified after the last known status.**

Service Response:

Re-IPL the system. If any reference codes are surfaced, use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

571A9091 **Incorrect hardware configuration change has been detected.**

Service Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

571A9092 **Disk unit requires initialization before use.**

Service Response:

Perform IOPIP26.

FRU List:
SVCDOCS

571A9902 **System log entry only, no service action required**

571AC000 **System log entry only, no service action required**

Service Response:

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

571AC402 **Licensed Internal Code error**

Service Response:

Ask your next level of support for assistance.

FRU List:
PTFSRCH

571AFF3D **I/O adapter detected a recoverable error**

FRU List:
STORIOA

ANYBRDG

571AFF6D **Recoverable system bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

571B3000 **A permanent failure occurred**

FRU List:
FI01101

ANYBRDG

571B3006 **System bus error**

FRU List:
FI01101

ANYBRDG

PTFSRCH

571B3020 **SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

571B3021 **SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

571B3022 **SCSI bus configuration error**

Service Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

571B3023 SCSI bus configuration error**Servicer Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

571B3100 Interface error Error occurred on SCSI bus 0.**Servicer Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571B3101 Interface error Error occurred on SCSI bus 1.**Servicer Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571B3102 Interface error Error occurred on SCSI bus 2.**Servicer Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571B3103 Interface error Error occurred on SCSI bus 3.**Servicer Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571B3120 Bus is not operational**Servicer Response:**

Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571B3121 Bus is not operational**Servicer Response:**

Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571B3122 Bus is not operational**Servicer Response:**

Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571B3123 Bus is not operational**Servicer Response:**

Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571B3140 Bus is operational**Servicer Response:**

This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

571B3141 Bus is operational**Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

571B3142 Bus is operational**Servicer Response:**

This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

571B3143 Bus is operational**Servicer Response:**

This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

571B3150 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

571B3151 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

571B3200 A tape/CD or disk device reported a failure**FRU List:**

FI01105

STORIOA

MEDIA

571B3202 Storage subsystem configuration error**Servicer Response:**

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:

SVCDOS

571B3400 Device error**Servicer Response:**

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

FI01140

571B3401 Device backplane problem**FRU List:**

DEVBPLN

571B3501 Licensed Internal Code error**Servicer Response:**

The device type is either unsupported or the code has not been loaded to support it.

FRU List:

FI01105

PTFSRCH

571B3601 System log entry only, no service action required

571B8008 A permanent cache battery pack failure occurred**Servicer Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACBAT

STORIOA

571B8009 Impending cache battery pack failure

FRU List:
CACHBAT

571B8100 Licensed Internal Code error

FRU List:
PTFSRCH

STORIOA

571B8130 IOA detected recoverable device bus error**Servicer Response:**

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

571B8131 IOA detected recoverable device bus error**Servicer Response:**

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

571B8132 IOA detected recoverable device bus error**Servicer Response:**

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

571B8133 IOA detected recoverable device bus error**Servicer Response:**

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

571B8140 IOA detected recoverable device bus error**Servicer Response:**

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

571B8141 IOA detected recoverable device error**Servicer Response:**

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

571B8145 A recoverable error occurred

FRU List:
STORIOA

571B8146 Disk device detected recoverable error

FRU List:
FI01105

571B8150 A permanent failure occurred.**Servicer Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

571B8151 Licensed Internal Code error

FRU List:
PTFSRCH

STORIOA

571B8155 A permanent failure occurred

FRU List:
PTFSRCH

STORIOA

571B8156 A permanent failure occurred

FRU List:
PTFSRCH

STORIOA

571B8157 I/O adapter card error**Servicer Response:**

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(*YES)" command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

571B8300 **IOA hardware error or PCI bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

571B8301 **Not valid condition in Licensed Internal Code**

FRU List:
PTFSRCH

STORIOA

571B8302 **Missing Licensed Internal Code**

Service Response:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:
SVCDOCS

STORIOA

571B8400 **Licensed Internal Code error**

FRU List:
PTFSRCH

571B8404 **System log entry only, no service action required**

571B9000 **Device error**

FRU List:
FI01105

STORIOA

571B9001 **Device configuration error**

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

571B9002 **Device error**

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

571B9008 **I/O card does not support functions expected by devices**

Service Response:

Perform IOPIP25.

FRU List:
SVCDOCS

571B9009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

571B9010 **Cache data associated with attached devices cannot be found Perform IOPIP31.**

FRU List:
SVCDOCS

571B9011 **Cache data belongs to devices other than those attached**

Service Response:

Perform IOPIP32.

FRU List:
SVCDOCS

571B9020 **Array not functional due to present hardware configuration.**

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

571B9021 **Array not functional due to present hardware configuration.**

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

571B9022 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571B9023 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571B9024 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571B9025 Disk unit is not supported at its physical location.

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

571B9026 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571B9027 Array not functional due to present hardware configuration.

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

571B9028 Incorrect hardware configuration change has been detected.

Service Response:
Reduce the number of arrays on this I/O adapter.
Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:

SVCDOCS

571B9029 Incorrect hardware configuration change has been detected.

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

571B902F Array addendum Product Activity Log entry

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

571B9030 Array no longer protected due to missing or failed disk unit.

Service Response:
Perform isolation procedure IOPIP21. To review isolation procedure IOPIP21, go to your host server's service guide.

FRU List:
FI02112

SVCDOCS

571B9031 Array protection temporarily suspended

Service Response:
No action required. Protection will be automatically restarted.

571B9032 A disk unit in a RAID array is missing or failed

Service Response:
The array is still protected, but the disk unit should be replaced. Perform IOPIP21.

FRU List:
FI02112

SVCDOCS

571B9040 Array protection temporarily suspended

Service Response:
No action required. Protection will be automatically restarted.

571B9041 **Background array parity check detected and corrected errors.**

Servicer Response:

Call your next level of support to report the problem.

FRU List:
PTFSRCH

571B9042 **An array parity error has been detected and corrected**

Servicer Response:

Call your next level of support to report the problem.

FRU List:
NEXTLVL

571B9050 **Required cache data cannot be located for a disk unit.**

Servicer Response:

Perform IOPIP30.

FRU List:
SVCDOCS

571B9051 **Cache data exists for a missing or failed device**

Servicer Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

571B9052 **Cache data exists for device that has been modified.**

Servicer Response:

Contact your next level of support.

FRU List:
SVCDOCS

571B9053 **IOA resources not available due to previous problems**

Servicer Response:

Take action on other reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:
SVCDOCS

571B9054 **IOA resources not available due to previous problems**

Servicer Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:
SVCDOCS

571B9071 **Link from IOA to auxiliary cache IOA went operational**

Servicer Response:

No service action required.

571B9072 **Link from IOA to auxiliary cache IOA went non-operational**

Servicer Response:

No service action required.

571B9073 **Incompatible or non-operational auxiliary cache IOA attached.**

Servicer Response:

Perform isolation procedure IOPIP40. To review isolation procedure IOPIP40, go to your host server's service guide.

FRU List:
SVCDOCS

571B9081 **Device error**

FRU List:
FI01105

STORIOA

571B9082 **Device error**

Servicer Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

571B9090 **Disk unit has been modified after the last known status.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

571B9091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

571B9092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:
SVCDOCS

571B9902 **System log entry only, no service action required**

571BC000 **System log entry only, no service action required**

Servicer Response:

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

571BC402 **Licensed Internal Code error**

Servicer Response:

Ask your next level of support for assistance.

FRU List:
PTFSRCH

571BFF3D **I/O adapter detected a recoverable error**

FRU List:
STORIOA

ANYBRDG

571BFF6D **Recoverable system bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

571E3000 **A permanent failure occurred**

FRU List:
FI01101

ANYBRDG

571E3006 **System bus error**

FRU List:
FI01101

ANYBRDG

PTFSRCH

571E3020 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

571E3021 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

571E3022 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

571E3023 SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

571E3100 Interface error Error occurred on SCSI bus 0.**Service Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571E3101 Interface error Error occurred on SCSI bus 1.**Service Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571E3102 Interface error Error occurred on SCSI bus 2.**Service Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571E3103 Interface error Error occurred on SCSI bus 3.**Service Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571E3120 Bus is not operational**Service Response:**

Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571E3121 Bus is not operational**Service Response:**

Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571E3122 Bus is not operational**Service Response:**

Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571E3123 Bus is not operational**Service Response:**

Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571E3140 Bus is operational**Servicer Response:**

This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

571E3141 Bus is operational**Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

571E3142 Bus is operational**Servicer Response:**

This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

571E3143 Bus is operational**Servicer Response:**

This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

571E3150 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

571E3151 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

571E3200 A tape/CD or disk device reported a failure**FRU List:**

FI01105

STORIOA

MEDIA

571E3202 Storage subsystem configuration error**Servicer Response:**

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:

SVCDOS

571E3400 Device error**Servicer Response:**

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

FI01140

571E3401 Device backplane problem**FRU List:**

DEVBPLN

571E3501 Licensed Internal Code error**Servicer Response:**

The device type is either unsupported or the code has not been loaded to support it.

FRU List:

FI01105

PTFSRCH

571E3601 System log entry only, no service action required

571E8008 A permanent cache battery pack failure occurred**Servicer Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACBAT

STORIOA

571E8009 Impending cache battery pack failure**FRU List:**
CACHBAT

571E8100 Licensed Internal Code error**FRU List:**
PTFSRCH

STORIOA

571E8130 IOA detected recoverable device bus error**Servicer Response:**

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

571E8131 IOA detected recoverable device bus error**Servicer Response:**

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

571E8132 IOA detected recoverable device bus error**Servicer Response:**

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

571E8133 IOA detected recoverable device bus error**Servicer Response:**

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

571E8140 IOA detected recoverable device bus error**Servicer Response:**

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

571E8141 IOA detected recoverable device error**Servicer Response:**

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

571E8145 A recoverable error occurred**FRU List:**
STORIOA

571E8146 Disk device detected recoverable error**FRU List:**
FI01105

571E8150 A permanent failure occurred**Servicer Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

571E8151 Licensed Internal Code error**FRU List:**
PTFSRCH

STORIOA

571E8155 A permanent failure occurred**FRU List:**
PTFSRCH

STORIOA

571E8156 A permanent failure occurred**FRU List:**
PTFSRCH

STORIOA

571E8157 I/O adapter card error**Servicer Response:**

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(*YES)" command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

571E8300 IOA hardware error or PCI bus error

FRU List:
STORIOA

ANYBRDG

PTFSRCH

571E8301 Not valid condition in Licensed Internal Code

FRU List:
PTFSRCH

STORIOA

571E8302 Missing Licensed Internal Code

Service Response:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:
SVCDOCS

STORIOA

571E8400 Licensed Internal Code error

FRU List:
PTFSRCH

571E8404 System log entry only, no service action required

571E9000 Device error

FRU List:
FI01105

STORIOA

571E9001 Device configuration error

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

571E9002 Device error

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

571E9008 I/O card does not support functions expected by devices

Service Response:

Perform IOPIP25.

FRU List:
SVCDOCS

571E9009 Call your next level of support for assistance

FRU List:
SVCDOCS

571E9010 Cache data associated with attached devices cannot be found Perform IOPIP31.

FRU List:
SVCDOCS

571E9011 Cache data belongs to devices other than those attached

Service Response:

Perform IOPIP32.

FRU List:
SVCDOCS

571E9020 Array not functional due to present hardware configuration.

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

571E9021 Array not functional due to present hardware configuration.

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

571E9022 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571E9023 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571E9024 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571E9025 **Disk unit is not supported at its physical location.**

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

571E9026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571E9027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

571E9028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on this I/O adapter.
Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:

SVCDOCS

571E9029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

571E902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

571E9030 **Array no longer protected due to missing or failed disk unit.**

Service Response:
Perform isolation procedure IOPIP21. To review isolation procedure IOPIP21, go to your host server's service guide.

FRU List:
FI02112

SVCDOCS

571E9031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

571E9032 **A disk unit in a RAID array is missing or failed**

Service Response:
The array is still protected, but the disk unit should be replaced. Perform IOPIP21.

FRU List:
FI02112

SVCDOCS

571E9040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

571E9041 **Background array parity check detected and corrected errors.**

Service Response:

Call your next level of support to report the problem.

FRU List:

PTFSRCH

571E9042 **An array parity error has been detected and corrected**

Service Response:

Call your next level of support to report the problem.

FRU List:

NEXTLVL

571E9050 **Required cache data cannot be located for a disk unit.**

Service Response:

Perform IOPIP30.

FRU List:

SVCDOS

571E9051 **Cache data exists for a missing or failed device**

Service Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:

SVCDOS

571E9052 **Cache data exists for device that has been modified.**

Service Response:

Contact your next level of support.

FRU List:

SVCDOS

571E9053 **IOA resources not available due to previous problems**

Service Response:

Take action on other reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:

SVCDOS

571E9054 **IOA resources not available due to previous problems**

Service Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:

SVCDOS

571E9071 **Link from IOA to auxiliary cache IOA went operational**

Service Response:

No service action required.

571E9072 **Link from IOA to auxiliary cache IOA went non-operational**

Service Response:

No service action required.

571E9073 **Incompatible or non-operational auxiliary cache IOA attached.**

Service Response:

Perform isolation procedure IOPIP40. To review isolation procedure IOPIP40, go to your host server's service guide.

FRU List:

SVCDOS

571E9081 **Device error**

FRU List:

FI01105

STORIOA

571E9082 **Device error**

Service Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

571E9090 **Disk unit has been modified after the last known status.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

571E9091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

571E9092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:
SVCDOCS

571E9902 **System log entry only, no service action required**

571EC000 **System log entry only, no service action required**

Servicer Response:

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

571EC402 **Licensed Internal Code error**

Servicer Response:

Ask your next level of support for assistance.

FRU List:
PTFSRCH

571EFF3D **I/O adapter detected a recoverable error**

FRU List:
STORIOA

ANYBRDG

571EFF6D **Recoverable system bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

571F3000 **A permanent failure occurred**

FRU List:
FI01101

ANYBRDG

571F3006 **System bus error**

FRU List:
FI01101

ANYBRDG

PTFSRCH

571F3020 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

571F3021 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

571F3022 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

571F3023 • 571F3123

USER

FI01107

STORIOA

571F3023 SCSI bus configuration error

Service Response:

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

571F3100 Interface error Error occurred on SCSI bus 0.

Service Response:

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571F3101 Interface error Error occurred on SCSI bus 1.

Service Response:

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571F3102 Interface error Error occurred on SCSI bus 2.

Service Response:

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571F3103 Interface error Error occurred on SCSI bus 3.

Service Response:

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

571F3120 Bus is not operational

Service Response:

Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571F3121 Bus is not operational

Service Response:

Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571F3122 Bus is not operational

Service Response:

Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571F3123 Bus is not operational

Service Response:

Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

571F3140 Bus is operational**Servicer Response:**

This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

571F3141 Bus is operational**Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

571F3142 Bus is operational**Servicer Response:**

This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

571F3143 Bus is operational**Servicer Response:**

This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

571F3150 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

571F3151 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

571F3200 A tape/CD or disk device reported a failure**FRU List:**

FI01105

STORIOA

MEDIA

571F3202 Storage subsystem configuration error**Servicer Response:**

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:

SVCDOS

571F3400 Device error**Servicer Response:**

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

FI01140

571F3401 Device backplane problem**FRU List:**

DEVBPLN

571F3501 Licensed Internal Code error**Servicer Response:**

The device type is either unsupported or the code has not been loaded to support it.

FRU List:

FI01105

PTFSRCH

571F3601 System log entry only, no service action required

571F8008 A permanent cache battery pack failure occurred**Servicer Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACBAT

STORIOA

571F8009 Impending cache battery pack failure
FRU List:
 CACHBAT

571F8100 Licensed Internal Code error
FRU List:
 PTFSRCH

 STORIOA

571F8130 IOA detected recoverable device bus error
Service Response:

 An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

571F8131 IOA detected recoverable device bus error
Service Response:

 An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

571F8132 IOA detected recoverable device bus error
Service Response:

 An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

571F8133 IOA detected recoverable device bus error
Service Response:

 An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

571F8140 IOA detected recoverable device bus error
Service Response:

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

571F8141 IOA detected recoverable device error
Service Response:

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

571F8145 A recoverable error occurred
FRU List:
 STORIOA

571F8146 Disk device detected recoverable error
FRU List:
 FI01105

571F8150 A permanent failure occurred
Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
 STORIOA

 ANYBRDG

571F8151 Licensed Internal Code error
FRU List:
 PTFSRCH

 STORIOA

571F8155 A permanent failure occurred
FRU List:
 PTFSRCH

 STORIOA

571F8156 A permanent failure occurred
FRU List:
 PTFSRCH

 STORIOA

571F8157 I/O adapter card error
Service Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(*YES)" command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

571F8300 **IOA hardware error or PCI bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

571F8301 **Not valid condition in Licensed Internal Code**

FRU List:
PTFSRCH

STORIOA

571F8302 **Missing Licensed Internal Code**

Service Response:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:
SVCDOCS

STORIOA

571F8400 **Licensed Internal Code error**

FRU List:
PTFSRCH

571F8404 **System log entry only, no service action required**

571F9000 **Device error**

FRU List:
FI01105

STORIOA

571F9001 **Device configuration error**

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

571F9002 **Device error**

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

571F9008 **I/O card does not support functions expected by devices**

Service Response:

Perform IOPIP25.

FRU List:
SVCDOCS

571F9009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

571F9010 **Cache data associated with attached devices cannot be found Perform IOPIP31.**

FRU List:
SVCDOCS

571F9011 **Cache data belongs to devices other than those attached**

Service Response:

Perform IOPIP32.

FRU List:
SVCDOCS

571F9020 **Array not functional due to present hardware configuration.**

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

571F9021 **Array not functional due to present hardware configuration.**

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

571F9022 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571F9023 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571F9024 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571F9025 **Disk unit is not supported at its physical location.**

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

571F9026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

571F9027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

571F9028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on this I/O adapter.
Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:

SVCDOCS

571F9029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

571F902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

571F9030 **Array no longer protected due to missing or failed disk unit.**

Service Response:
Perform isolation procedure IOPIP21. To review isolation procedure IOPIP21, go to your host server's service guide.

FRU List:
FI02112

SVCDOCS

571F9031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

571F9032 **A disk unit in a RAID array is missing or failed**

Service Response:
The array is still protected, but the disk unit should be replaced. Perform IOPIP21.

FRU List:
FI02112

SVCDOCS

571F9040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

571F9041 **Background array parity check detected and corrected errors.**

Servicer Response:

Call your next level of support to report the problem.

FRU List:
PTFSRCH

571F9042 **An array parity error has been detected and corrected**

Servicer Response:

Call your next level of support to report the problem.

FRU List:
NEXTLVL

571F9050 **Required cache data cannot be located for a disk unit.**

Servicer Response:

Perform IOPIP30.

FRU List:
SVCDOCS

571F9051 **Cache data exists for a missing or failed device**

Servicer Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

571F9052 **Cache data exists for device that has been modified.**

Servicer Response:

Contact your next level of support.

FRU List:
SVCDOCS

571F9053 **IOA resources not available due to previous problems**

Servicer Response:

Take action on other reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:
SVCDOCS

571F9054 **IOA resources not available due to previous problems**

Servicer Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:
SVCDOCS

571F9071 **Link from IOA to auxiliary cache IOA went operational**

Servicer Response:

No service action required.

571F9072 **Link from IOA to auxiliary cache IOA went non-operational**

Servicer Response:

No service action required.

571F9073 **Incompatible or non-operational auxiliary cache IOA attached.**

Servicer Response:

Perform isolation procedure IOPIP40. To review isolation procedure IOPIP40, go to your host server's service guide.

FRU List:
SVCDOCS

571F9081 **Device error**

FRU List:
FI01105

STORIOA

571F9082 **Device error**

Servicer Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

571F9090 **Disk unit has been modified after the last known status.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

571F9091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

571F9092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:
SVCDOCS

571F9902 **System log entry only, no service action required**

571FC000 **System log entry only, no service action required**

Servicer Response:

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

571FC402 **Licensed Internal Code error**

Servicer Response:

Ask your next level of support for assistance.

FRU List:
PTFSRCH

571FFF3D **I/O adapter detected a recoverable error**

FRU List:
STORIOA

ANYBRDG

571FFF6D **Recoverable system bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

573D3000 **A permanent failure occurred**

FRU List:
FI01101

ANYBRDG

573D3006 **System bus error**

FRU List:
FI01101

ANYBRDG

PTFSRCH

573D3020 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

573D3021 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

573D3022 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

573D3023 SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

573D3100 Interface error Error occurred on SCSI bus 0.**Service Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

573D3101 Interface error Error occurred on SCSI bus 1.**Service Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

573D3102 Interface error Error occurred on SCSI bus 2.**Service Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

573D3103 Interface error Error occurred on SCSI bus 3.**Service Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

573D3120 Bus is not operational**Service Response:**

Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

573D3121 Bus is not operational**Service Response:**

Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

573D3122 Bus is not operational**Service Response:**

Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

573D3123 Bus is not operational**Service Response:**

Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

573D3140 Bus is operational**Servicer Response:**

This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

573D3141 Bus is operational**Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

573D3142 Bus is operational**Servicer Response:**

This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

573D3143 Bus is operational**Servicer Response:**

This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

573D3150 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

573D3151 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

573D3200 A tape/CD or disk device reported a failure**FRU List:**

FI01105

STORIOA

MEDIA

573D3202 Storage subsystem configuration error**Servicer Response:**

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:

SVCDOS

573D3400 Device error**Servicer Response:**

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

FI01140

573D3401 Device backplane problem**FRU List:**

DEVBPLN

573D3501 Licensed Internal Code error**Servicer Response:**

The device type is either unsupported or the code has not been loaded to support it.

FRU List:

FI01105

PTFSRCH

573D3601 System log entry only, no service action required

573D8008 A permanent cache battery pack failure occurred**Servicer Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACBAT

STORIOA

573D8009 Impending cache battery pack failure**FRU List:**
CACHBAT

573D8100 Licensed Internal Code error**FRU List:**
PTFSRCH

STORIOA

573D8130 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

573D8131 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

573D8132 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

573D8133 IOA detected recoverable device bus error**Service Response:**

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

573D8140 IOA detected recoverable device bus error**Service Response:**

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

573D8141 IOA detected recoverable device error**Service Response:**

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

573D8145 A recoverable error occurred**FRU List:**
STORIOA

573D8146 Disk device detected recoverable error**FRU List:**
FI01105

573D8150 A permanent failure occurred**Service Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

573D8151 Licensed Internal Code error**FRU List:**
PTFSRCH

STORIOA

573D8155 A permanent failure occurred**FRU List:**
PTFSRCH

STORIOA

573D8156 A permanent failure occurred**FRU List:**
PTFSRCH

STORIOA

573D8157 I/O adapter card error**Service Response:**

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(*YES)" command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

573D8300 IOA hardware error or PCI bus error

FRU List:
STORIOA

ANYBRDG

PTFSRCH

573D8301 Not valid condition in Licensed Internal Code

FRU List:
PTFSRCH

STORIOA

573D8302 Missing Licensed Internal Code

Service Response:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:
SVCDOCS

STORIOA

573D8400 Licensed Internal Code error

FRU List:
PTFSRCH

573D8404 System log entry only, no service action required

573D9000 Device error

FRU List:
FI01105

STORIOA

573D9001 Device configuration error

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

573D9002 Device error

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

573D9008 I/O card does not support functions expected by devices

Service Response:

Perform IOPIP25.

FRU List:
SVCDOCS

573D9009 Call your next level of support for assistance

FRU List:
SVCDOCS

573D9010 Cache data associated with attached devices cannot be found Perform IOPIP31.

FRU List:
SVCDOCS

573D9011 Cache data belongs to devices other than those attached

Service Response:

Perform IOPIP32.

FRU List:
SVCDOCS

573D9020 Array not functional due to present hardware configuration.

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

573D9021 Array not functional due to present hardware configuration.

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

573D9022 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

573D9023 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

573D9024 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

573D9025 **Disk unit is not supported at its physical location.**

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

573D9026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

573D9027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

573D9028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on this I/O adapter.
Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:

SVCDOCS

573D9029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

573D902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

573D9030 **Array no longer protected due to missing or failed disk unit.**

Service Response:
Perform isolation procedure IOPIP21. To review isolation procedure IOPIP21, go to your host server's service guide.

FRU List:
FI02112

SVCDOCS

573D9031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

573D9032 **A disk unit in a RAID array is missing or failed**

Service Response:
The array is still protected, but the disk unit should be replaced. Perform IOPIP21.

FRU List:
FI02112

SVCDOCS

573D9040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

573D9041 **Background array parity check detected and corrected errors.**

Service Response:

Call your next level of support to report the problem.

FRU List:

PTFSRCH

573D9042 **An array parity error has been detected and corrected**

Service Response:

Call your next level of support to report the problem.

FRU List:

NEXTLVL

573D9050 **Required cache data cannot be located for a disk unit.**

Service Response:

Perform IOPIP30.

FRU List:

SVCDOS

573D9051 **Cache data exists for a missing or failed device**

Service Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:

SVCDOS

573D9052 **Cache data exists for device that has been modified.**

Service Response:

Contact your next level of support.

FRU List:

SVCDOS

573D9053 **IOA resources not available due to previous problems**

Service Response:

Take action on other reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:

SVCDOS

573D9054 **IOA resources not available due to previous problems**

Service Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:

SVCDOS

573D9071 **Link from IOA to auxiliary cache IOA went operational**

Service Response:

No service action required.

573D9072 **Link from IOA to auxiliary cache IOA went non-operational**

Service Response:

No service action required.

573D9073 **Incompatible or non-operational auxiliary cache IOA attached.**

Service Response:

Perform isolation procedure IOPIP40. To review isolation procedure IOPIP40, go to your host server's service guide.

FRU List:

SVCDOS

573D9081 **Device error**

FRU List:

FI01105

STORIOA

573D9082 **Device error**

Service Response:

Perform IOPIP16.

FRU List:

FI01105

STORIOA

FI01140

BACKPLN

FI01106

573D9090 **Disk unit has been modified after the last known status.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

573D9091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

573D9092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:
SVCDOCS

573D9902 **System log entry only, no service action required**

573DC000 **System log entry only, no service action required**

Servicer Response:

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

573DC402 **Licensed Internal Code error**

Servicer Response:

Ask your next level of support for assistance.

FRU List:
PTFSRCH

573DFF3D **I/O adapter detected a recoverable error**

FRU List:
STORIOA

ANYBRDG

573DFF6D **Recoverable system bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

573E3000 **A permanent failure occurred**

FRU List:
FI01101

ANYBRDG

573E3006 **System bus error**

FRU List:
FI01101

ANYBRDG

PTFSRCH

573E3020 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

573E3021 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

573E3022 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

573E3023 SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

573E3100 Interface error Error occurred on SCSI bus 0.**Service Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

573E3101 Interface error Error occurred on SCSI bus 1.**Service Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

573E3102 Interface error Error occurred on SCSI bus 2.**Service Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

573E3103 Interface error Error occurred on SCSI bus 3.**Service Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

BACKPLN

573E3120 Bus is not operational**Service Response:**

Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

573E3121 Bus is not operational**Service Response:**

Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

573E3122 Bus is not operational**Service Response:**

Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

573E3123 Bus is not operational**Service Response:**

Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

573E3140 Bus is operational**Servicer Response:**

This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

573E3141 Bus is operational**Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

573E3142 Bus is operational**Servicer Response:**

This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

573E3143 Bus is operational**Servicer Response:**

This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

573E3150 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

573E3151 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

573E3200 A tape/CD or disk device reported a failure**FRU List:**

FI01105

STORIOA

MEDIA

573E3202 Storage subsystem configuration error**Servicer Response:**

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:

SVCDOS

573E3400 Device error**Servicer Response:**

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

FI01140

573E3401 Device backplane problem**FRU List:**

DEVBPLN

573E3501 Licensed Internal Code error**Servicer Response:**

The device type is either unsupported or the code has not been loaded to support it.

FRU List:

FI01105

PTFSRCH

573E3601 System log entry only, no service action required

573E8008 A permanent cache battery pack failure occurred**Servicer Response:**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACBAT

STORIOA

573E8009 Impending cache battery pack failure

FRU List:
CACHBAT

573E8100 Licensed Internal Code error

FRU List:
PTFSRCH

STORIOA

573E8130 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

573E8131 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

573E8132 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

573E8133 IOA detected recoverable device bus error

Service Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

573E8140 IOA detected recoverable device bus error

Service Response:

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

573E8141 IOA detected recoverable device error

Service Response:

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

573E8145 A recoverable error occurred

FRU List:
STORIOA

573E8146 Disk device detected recoverable error

FRU List:
FI01105

573E8150 A permanent failure occurred

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

573E8151 Licensed Internal Code error

FRU List:
PTFSRCH

STORIOA

573E8155 A permanent failure occurred

FRU List:
PTFSRCH

STORIOA

573E8156 A permanent failure occurred

FRU List:
PTFSRCH

STORIOA

573E8157 I/O adapter card error

Service Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(*YES)" command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

573E8300 **IOA hardware error or PCI bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

573E8301 **Not valid condition in Licensed Internal Code**

FRU List:
PTFSRCH

STORIOA

573E8302 **Missing Licensed Internal Code**

Service Response:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:
SVCDOCS

STORIOA

573E8400 **Licensed Internal Code error**

FRU List:
PTFSRCH

573E8404 **System log entry only, no service action required**

573E9000 **Device error**

FRU List:
FI01105

STORIOA

573E9001 **Device configuration error**

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

573E9002 **Device error**

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

573E9008 **I/O card does not support functions expected by devices**

Service Response:

Perform IOPIP25.

FRU List:
SVCDOCS

573E9009 **Call your next level of support for assistance**

FRU List:
SVCDOCS

573E9010 **Cache data associated with attached devices cannot be found Perform IOPIP31.**

FRU List:
SVCDOCS

573E9011 **Cache data belongs to devices other than those attached**

Service Response:

Perform IOPIP32.

FRU List:
SVCDOCS

573E9020 **Array not functional due to present hardware configuration.**

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

573E9021 **Array not functional due to present hardware configuration.**

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

573E9022 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

573E9023 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

573E9024 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

573E9025 **Disk unit is not supported at its physical location.**

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

573E9026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

573E9027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

573E9028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on this I/O adapter.
Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:

SVCDOCS

573E9029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

573E902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

573E9030 **Array no longer protected due to missing or failed disk unit.**

Service Response:
Perform isolation procedure IOPIP21. To review isolation procedure IOPIP21, go to your host server's service guide.

FRU List:
FI02112

SVCDOCS

573E9031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

573E9032 **A disk unit in a RAID array is missing or failed**

Service Response:
The array is still protected, but the disk unit should be replaced. Perform IOPIP21.

FRU List:
FI02112

SVCDOCS

573E9040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

573E9041 **Background array parity check detected and corrected errors**

Servicer Response:

Call your next level of support to report the problem.

FRU List:
PTFSRCH

573E9042 **An array parity error has been detected and corrected**

Servicer Response:

Call your next level of support to report the problem.

FRU List:
NEXTLVL

573E9050 **Required cache data cannot be located for a disk unit.**

Servicer Response:

Perform IOPIP30.

FRU List:
SVCDOCS

573E9051 **Cache data exists for a missing or failed device**

Servicer Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

573E9052 **Cache data exists for device that has been modified.**

Servicer Response:

Contact your next level of support.

FRU List:
SVCDOCS

573E9053 **IOA resources not available due to previous problems**

Servicer Response:

Take action on other reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:
SVCDOCS

573E9054 **IOA resources not available due to previous problems**

Servicer Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:
SVCDOCS

573E9071 **Link from IOA to auxiliary cache IOA went operational**

Servicer Response:

No service action required.

573E9072 **Link from IOA to auxiliary cache IOA went non-operational**

Servicer Response:

No service action required.

573E9073 **Incompatible or non-operational auxiliary cache IOA attached.**

Servicer Response:

Perform isolation procedure IOPIP40. To review isolation procedure IOPIP40, go to your host server's service guide.

FRU List:
SVCDOCS

573E9081 **Device error**

FRU List:
FI01105

STORIOA

573E9082 **Device error**

Servicer Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

573E9090 **Disk unit has been modified after the last known status.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

573E9091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

573E9092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:
SVCDOCS

573E9902 **System log entry only, no service action required**

573EC000 **System log entry only, no service action required**

Servicer Response:

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

573EC402 **Licensed Internal Code error**

Servicer Response:

Ask your next level of support for assistance.

FRU List:
PTFSRCH

573EFF3D **I/O adapter detected a recoverable error**

FRU List:
STORIOA

ANYBRDG

573EFF6D **Recoverable system bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

57FF3000 **A permanent failure occurred**

FRU List:
FI01101

ANYBRDG

57FF3006 **System bus error**

FRU List:
FI01101

ANYBRDG

PTFSRCH

57FF3020 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

57FF3021 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:
USER

FI01107

STORIOA

57FF3022 **SCSI bus configuration error**

Servicer Response:

Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

57FF3023 SCSI bus configuration error**Service Response:**

Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17.

FRU List:

USER

FI01107

STORIOA

57FF3100 Interface error Error occurred on SCSI bus 0.**Service Response:**

Error occurred on SCSI bus 0. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

DEVBPLN

57FF3101 Interface error Error occurred on SCSI bus 1.**Service Response:**

Error occurred on SCSI bus 1. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

DEVBPLN

57FF3102 Interface error Error occurred on SCSI bus 2.**Service Response:**

Error occurred on SCSI bus 2. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

DEVBPLN

57FF3103 Interface error Error occurred on SCSI bus 3.**Service Response:**

Error occurred on SCSI bus 3. Perform IOPIP13.

FRU List:

FI01107

STORIOA

FI01140

DEVBPLN

57FF3120 Bus is not operational**Service Response:**

Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57FF3121 Bus is not operational**Service Response:**

Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57FF3122 Bus is not operational**Service Response:**

Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57FF3123 Bus is not operational**Service Response:**

Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

FRU List:

SVCDOCS

57FF3140 Bus is operational**Servicer Response:**

This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

57FF3141 Bus is operational**Servicer Response:**

This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

57FF3142 Bus is operational**Servicer Response:**

This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

57FF3143 Bus is operational**Servicer Response:**

This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

57FF3150 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

FRU List:

SVCDOS

57FF3151 SCSI bus configuration error**Servicer Response:**

Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

FRU List:

SVCDOS

57FF3200 A tape/CD or disk device reported a failure**FRU List:**

FI01105

STORIOA

MEDIA

57FF3202 Storage subsystem configuration error**Servicer Response:**

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:

SVCDOS

57FF3400 Device error**Servicer Response:**

NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

FRU List:

FI02112

STORIOA

FI01106

FI01140

57FF3401 Device backplane problem**FRU List:**

DEVBPLN

57FF3501 Licensed Internal Code error**Servicer Response:**

The device type is either unsupported or the code has not been loaded to support it.

FRU List:

FI01105

PTFSRCH

57FF3601 System log entry only, no service action required

57FF8008 A permanent cache battery pack failure occurred**Servicer Response::**

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACBAT

STORIOA

57FF8009 Impending cache battery pack failure

FRU List:
CACHBAT

57FF8100 Licensed Internal Code error

FRU List:
PTFSRCH

STORIOA

57FF8130 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

57FF8131 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

57FF8132 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

57FF8133 IOA detected recoverable device bus error

Servicer Response:

An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

57FF8140 IOA detected recoverable device bus error

Servicer Response:

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

57FF8141 IOA detected recoverable device error

Servicer Response:

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

57FF8145 A recoverable error occurred

FRU List:
STORIOA

57FF8146 Disk device detected recoverable error

FRU List:
FI01105

57FF8150 A permanent failure occurred

Servicer Response::

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:
STORIOA

ANYBRDG

57FF8151 Licensed Internal Code error

FRU List:
PTFSRCH

STORIOA

57FF8155 A permanent failure occurred

FRU List:
PTFSRCH

STORIOA

57FF8156 A permanent failure occurred

FRU List:
PTFSRCH

STORIOA

57FF8157 I/O adapter card error

Servicer Response:

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(*YES)" command to reset the IOP and Vary On attached resources.

FRU List:
SVCDOCS

57FF8300 IOA hardware error or PCI bus error

FRU List:
STORIOA

ANYBRDG

PTFSRCH

57FF8301 Not valid condition in Licensed Internal Code

FRU List:
PTFSRCH

STORIOA

57FF8302 Missing Licensed Internal Code

Service Response:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:
SVCDOCS

STORIOA

57FF8400 Licensed Internal Code error

FRU List:
PTFSRCH

57FF8404 System log entry only, no service action required

57FF9000 Device error

FRU List:
FI01105

STORIOA

57FF9001 Device configuration error

Service Response:

Perform IOPIP33.

FRU List:
SVCDOCS

57FF9002 Device error

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

57FF9008 I/O card does not support functions expected by devices

Service Response:

Perform IOPIP25.

FRU List:
SVCDOCS

57FF9009 Call your next level of support for assistance

FRU List:
SVCDOCS

57FF9010 Cache data associated with attached devices cannot be found Perform IOPIP31.

FRU List:
SVCDOCS

57FF9011 Cache data belongs to devices other than those attached

Service Response:

Perform IOPIP32.

FRU List:
SVCDOCS

57FF9020 Array not functional due to present hardware configuration.

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

57FF9021 Array not functional due to present hardware configuration.

Service Response:

Perform IOPIP20.

FRU List:
SVCDOCS

57FF9022 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57FF9023 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57FF9024 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57FF9025 **Disk unit is not supported at its physical location.**

Service Response:
Perform IOPIP21.

FRU List:
SVCDOCS

57FF9026 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP22.

FRU List:
SVCDOCS

57FF9027 **Array not functional due to present hardware configuration.**

Service Response:
Perform IOPIP34.

FRU List:
SVCDOCS

57FF9028 **Incorrect hardware configuration change has been detected.**

Service Response:
Reduce the number of arrays on this I/O adapter.
Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:

SVCDOCS

57FF9029 **Incorrect hardware configuration change has been detected.**

Service Response:
Contact your next level of support.

FRU List:
SVCDOCS

57FF902F **Array addendum Product Activity Log entry**

Service Response:
This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

57FF9030 **Array no longer protected due to missing or failed disk unit. Perform IOPIP21.**

FRU List:
FI02112

SVCDOCS

57FF9031 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

57FF9032 **A disk unit in a RAID array is missing or failed**

Service Response:
The array is still protected, but the disk unit should be replaced. Perform IOPIP21.

FRU List:
FI02112

SVCDOCS

57FF9040 **Array protection temporarily suspended**

Service Response:
No action required. Protection will be automatically restarted.

57FF9041 **Background array parity check detected and corrected errors Call your next level of support to report the problem.**

FRU List:
PTFSRCH

57FF9042 **An array parity error has been detected and corrected**

Service Response:

Call your next level of support to report the problem.

FRU List:
NEXTLVL

57FF9050 **Required cache data cannot be located for a disk unit.**

Service Response:

Perform IOPIP30.

FRU List:
SVCDOCS

57FF9051 **Cache data exists for a missing or failed device**

Service Response:

If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.

FRU List:
SVCDOCS

57FF9052 **Cache data exists for device that has been modified.**

Service Response:

Contact your next level of support.

FRU List:
SVCDOCS

57FF9053 **IOA resources not available due to previous problems**

Service Response:

Take action on other reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:
SVCDOCS

57FF9054 **IOA resources not available due to previous problems**

Service Response:

Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

FRU List:
SVCDOCS

57FF9071 **Link from IOA to auxiliary cache IOA went operational**

Service Response:

No service action required.

57FF9072 **Link from IOA to auxiliary cache IOA went non-operational**

Service Response:

No service action required.

57FF9073 **Incompatible or non-operational auxiliary cache IOA attached. Perform IOPIP40.**

FRU List:
SVCDOCS

57FF9081 **Device error**

FRU List:
FI01105

STORIOA

57FF9082 **Device error**

Service Response:

Perform IOPIP16.

FRU List:
FI01105

STORIOA

FI01140

BACKPLN

FI01106

57FF9090 **Disk unit has been modified after the last known status.**

Service Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOCS

57FF9091 **Incorrect hardware configuration change has been detected.**

Servicer Response:

Re-IPL the system. If any reference codes are surfaced use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:
SVCDOS

57FF9092 **Disk unit requires initialization before use.**

Servicer Response:

Perform IOPIP26.

FRU List:
SVCDOS

57FF9902 **System log entry only, no service action required**

57FFC000 **System log entry only, no service action required**

Servicer Response:

572A and 572C Reference codes

572A and 572C Reference codes.

The following reference code are produced from SAS I/O adapter.

572A1310 **I/O adapter resource not available**

Servicer:

The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

572A3000 **A permanent failure occurred**

FRU List:

STORIOA

ANYBRDG

572A3020 **Storage subsystem configuration error**

FRU List:

SIP3150

572A3100 **Device bus interface error occurred**

FRU List:

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

57FFC402 **Licensed Internal Code error**

Servicer Response:

Ask your next level of support for assistance.

FRU List:
PTFSRCH

57FFF3D **I/O adapter detected a recoverable error**

FRU List:
STORIOA

ANYBRDG

57FFF6D **Recoverable system bus error**

FRU List:
STORIOA

ANYBRDG

PTFSRCH

SIP3150

572A3140 **System log entry only.**

Servicer:

No service action required.

572A3202 **Storage subsystem configuration error**

Servicer:

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:

SVCDOS

572A3400 **Unknown resource error**

FRU List:

SIP3150

FI02112

STORIOA

SASCABL

572A3401 Device backplane problem**FRU List:**

SASEXP

DEVBPLN

572A34FF Format in progress**Service:**

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

572A3601 Format in progress**Service:**

System log entry only, no service action required

572A4010 Configuration error**Service:**

Incorrect connection between cascaded enclosures.

FRU List:

SIP3142

572A4020 Configuration error**Service:**

Number of connections exceed I/O adapter design limits.

FRU List:

SIP3143

572A4030 Configuration error**Service:**

Incorrect multipath connection.

FRU List:

SIP3144

572A4040 Configuration error**Service:**

Incomplete multipath connection between I/O adapter and enclosure.

FRU List:

SIP3144

572A4041 Incomplete multipath connection**Service:**

Incomplete multipath connection between device backplane and device.

FRU List:

SIP3146

572A4050 Enclosure does not support required multipath function**FRU List:**

SIP3148

572A4060 Multipath redundancy level reduced**Service:**

A redundant disk unit connection has failed.

FRU List:

SIP3153

SASCABL

SASEXP

572A4061 Multipath redundancy level increased**Service:**

A redundant disk unit connection has been restored. No service action is required.

572A4070 System log entry only.**Service:**

No service action required.

572A4100 Device bus fabric error**FRU List:**

SIP3152

SASCABL

SASEXP

DEVBPLN

STORIOA

FI01105

572A4101 Temporary device bus fabric error**FRU List:**

SIP3152

572A4110 Unsupported enclosure function detected

FRU List:

SIP3145

572A4150 I/O adapter detected PCI bus error

Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

BACKPLN

STORIOA

572A4160 I/O adapter detected and recovered a PCI bus error

Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

BACKPLN

STORIOA

572A8008 A permanent cache battery pack failure occurred

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACHBAT

STORIOA

572A8009 Impending cache battery pack failure

FRU List:

CACHBAT

572A8100 Licensed Internal Code error

FRU List:

PTFSRCH

STORIOA

572A8130 IOA detected recoverable device bus error

Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

SIP3150

572A8140 IOA detected recoverable device bus error

Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

SIP3150

572A8141 IOA detected recoverable device error

Servicer:

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

572A8146 Disk device detected recoverable error

FRU List:

FI01105

572A8150 A permanent failure occurred

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load

Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

STORIOA

ANYBRDG

572A8151 Licensed Internal Code error**FRU List:**

PTFSRCH

STORIOA

572A8155 A permanent failure occurred**FRU List:**

PTFSRCH

STORIOA

572A8156 A permanent failure occurred**FRU List:**

PTFSRCH

STORIOA

572A8157 I/O adapter card error**Service:**

Display the Service Action Log entry for this SRC.If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

FRU List:

SVCDOCS

572A8300 IOA hardware error or PCI bus error**FRU List:**

STORIOA

ANYBRDG

PTFSRCH

572A8301 Not valid condition in Licensed Internal Code**FRU List:**

PTFSRCH

STORIOA

572A8302 Missing Licensed Internal Code**Service:**

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:

SVCDOCS

STORIOA

572A8400 Licensed Internal Code error**FRU List:**

PTFSRCH

572A8404 System log entry only.**Service:**

No service action required.

572A9000 Device error**FRU List:**

FI01105

STORIOA

572A9001 Device configuration error**FRU List:**

NEXTLVL

572A9002 Device error**FRU List:**

NEXTLVL

572A9008 I/O card does not support functions expected by devices

FRU List:

SIP3130

572A9010 Cache data associated with attached devices cannot be found

FRU List:

SIP3120

572A9011 Cache data belongs to devices other than those attached

FRU List:

NEXTLVL

572A9020 Two or more disk units missing from RAID-5 or RAID-6 array

FRU List:

SIP3111

572A9021 Two or more disk units missing from RAID-5 or RAID-6 array

FRU List:

SIP3111

572A9022 Two or more disk units missing from RAID-5 or RAID-6 array

FRU List:

SIP3111

572A9023 One or more array members not in required physical locations

FRU List:

SIP3112

572A9024 Array member physical location conflicts with another array

FRU List:

NEXTLVL

572A9025 Incompatible device

Service:

An incompatible device is at the physical location of the device which is causing the array to be exposed.

FRU List:

SIP3110

FI02112

572A9026 Disk unit not found at required physical location

Service:

A previously exposed disk unit in an array was not found at the required physical location.

FRU List:

NEXTLVL

572A9027 Array not functional due to parity out of synchronization

Service:

Array is or would become exposed and parity data is out of synchronization

FRU List:

SIP3113

572A9028 Maximum number of functional arrays has been exceeded

Service:

Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:

SVCDOS

SIP3113

572A9029 Maximum number of functional array members has been exceeded

Service:

Contact your next level of support.

FRU List:

NEXTLVL

SIP3113

572A9030 **Array no longer protected due to missing or failed disk unit**

FRU List:

SIP3110

FI02112

572A9031 **Automatic rebuild initiated for array**

Service:

Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

572A9032 **A disk unit in an array is missing or failed**

Service:

The array is still protected, but the disk unit should be replaced.

FRU List:

SIP3110

FI02112

572A9040 **Resynchronization of array parity was initiated**

Service:

No action required.

572A9041 **Background array parity check detected and corrected errors**

Service:

Call your next level of support to report the problem.

FRU List:

NEXTLVL

572A9042 **Background parity check corrected errors on disk unit**

Service:

Call your next level of support to report the problem.

FRU List:

NEXTLVL

572A9050 **Required cache data not found for one or more disk units**

FRU List:

SIP3131

572A9051 **Cache data exists for one or more missing or failed devices**

FRU List:

SIP3132

572A9052 **Cache data exists for one or more modified devices**

Service:

Contact your next level of support.

FRU List:

NEXTLVL

572A9054 **IOA resources not available due to previous problems**

FRU List:

SIP3121

572A9070 **System log entry only.**

Service:

No service action required.

572A9071 **Link from IOA to auxiliary or remote IOA is operational**

Service:

No service action required.

572A9072 **Link from IOA to auxiliary or remote IOA is non-operational**

Service:

No service action required.

572A9073 **Multiple I/O adapters connected in a not valid configuration**

FRU List:

SIP3140

572A9074 **Multiple I/O adapters connected in a not valid configuration**

Service:

Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

FRU List:

SIP3141

572A9075	Incomplete multipath connection between IOA and remote IOA
FRU List: SIP3149	
572A9076	Missing auxiliary IOA or remote IOA
FRU List: SIP3147	
572A9081	Device error
FRU List: FI01105	
STORIOA	
572A9082	Device error
FRU List: FI01105	
STORIOA	
572A9090	Disk unit has been modified after the last known status.
Servicer: Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.	
If any reference codes are surfaced, use the new reference code to resolve the problem. If you cannot resolve the problem, contact your next level of support.	
FRU List: SVCDOCS	
572A9091	Incorrect hardware configuration change has been detected.
Servicer: Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.	
If any reference codes are surfaced, use the new reference code to resolve the problem. If you cannot resolve the problem, contact your next level of support.	
FRU List:	

SVCDOCS

572A9092 **Disk unit requires initialization before use.**

FRU List:

SIP3134

572AC000 **System log entry only, no service action required**

Servicer:

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

572AC402 **Licensed Internal Code error**

Servicer:

Ask your next level of support for assistance..

FRU List:

PTFSRCH

572AFF3D **I/O adapter detected a recoverable error**

FRU List:

STORIOA

ANYBRDG

572C1310 **I/O adapter resource not available**

Servicer:

The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

572C3000 **A permanent failure occurred**

FRU List:

STORIOA

ANYBRDG

572C3020 **Storage subsystem configuration error**

FRU List:

SIP3150

572C3100 Device bus interface error occurred**FRU List:**SIP3150

572C3140 System log entry only.**Servicer:**No service action required.

572C3202 Storage subsystem configuration error**Servicer:**

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:SVCDOCS

572C3400 Unknown resource error**FRU List:**

SIP3150

FI02112

STORIOA

SASCABL

572C3401 Device backplane problem**FRU List:**

SASEXP

DEVBPLN

572C34FF Format in progress**Servicer:**No action required. This reference code is logged for information only.

572C3601 Format in progress**Servicer:**System log entry only, no service action required

572C4010 Configuration error**Servicer:**

Incorrect connection between cascaded enclosures.

FRU List:SIP3142

572C4020 Configuration error**Servicer:**

Number of connections exceed I/O adapter design limits.

FRU List:SIP3143

572C4030 Configuration error**Servicer:**

Incorrect multipath connection.

FRU List:SIP3144

572C4040 Configuration error**Servicer:**

Incomplete multipath connection between I/O adapter and enclosure.

FRU List:SIP3144

572C4041 Incomplete multipath connection**Servicer:**

Incomplete multipath connection between device backplane and device.

FRU List:SIP3146

572C4050 Enclosure does not support required multipath function**FRU List:**SIP3148

572C4060 Multipath redundancy level reduced**Servicer:**

A redundant disk unit connection has failed.

FRU List:

SIP3153

SASCABL

SASEXP

572C4061 Multipath redundancy level increased**Servicer:**A redundant disk unit connection has been restored. No service action is required.

572C4070 **System log entry only.**
Servicer:

No service action required.

572C4100 **Device bus fabric error**
FRU List:SIP3152
SASCABL
SASEXP

DEVBPLN

STORIOA

FI01105

572C4101 **Temporary device bus fabric error**
FRU List:

SIP3152

572C4110 **Unsupported enclosure function detected**
FRU List:

SIP3145

572C4150 **I/O adapter detected PCI bus error**
Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

BACKPLN

STORIOA

572C4160 **I/O adapter detected and recovered a PCI bus error**
Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

BACKPLN

STORIOA

572C8008 **A permanent cache battery pack failure occurred**
Servicer Response:**Note:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.**FRU List:**

CACHBAT

STORIOA

572C8009 **Impending cache battery pack failure**
FRU List:

CACHBAT

572C8100 **Licensed Internal Code error**
FRU List:

PTFSRCH

STORIOA

572C8130 **IOA detected recoverable device bus error**
Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

SIP3150

572C8140 **IOA detected recoverable device bus error**
Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:
SIP3150

572C8141 IOA detected recoverable device error

Service:

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

572C8146 Disk device detected recoverable error

FRU List:
FI01105

572C8150 A permanent failure occurred

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

STORIOA

ANYBRDG

572C8151 Licensed Internal Code error

FRU List:

PTFSRCH

STORIOA

572C8155 A permanent failure occurred

FRU List:

PTFSRCH

STORIOA

572C8156 A permanent failure occurred

FRU List:

PTFSRCH

STORIOA

572C8157 I/O adapter card error

Service:

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

FRU List:

SVCDOCS

572C8300 IOA hardware error or PCI bus error

FRU List:

STORIOA

ANYBRDG

PTFSRCH

572C8301 Not valid condition in Licensed Internal Code

FRU List:

PTFSRCH

STORIOA

572C8302 Missing Licensed Internal Code

Service:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:

SVCDOCS

STORIOA

572C8400 Licensed Internal Code error

FRU List:

PTFSRCH

572C8404 **System log entry only.**

Servicer:

No service action required.

572C9000 **Device error**

FRU List:

FI01105

STORIOA

572C9001 **Device configuration error**

FRU List:

NEXTLVL

572C9002 **Device error**

FRU List:

NEXTLVL

572C9008 **I/O card does not support functions
expected by devices**

FRU List:

SIP3130

572C9010 **Cache data associated with attached
devices cannot be found**

FRU List:

SIP3120

572C9011 **Cache data belongs to devices other
than those attached**

FRU List:

NEXTLVL

572C9020 **Two or more disk units missing from
RAID-5 or RAID-6 array**

FRU List:

SIP3111

572C9021 **Two or more disk units missing from
RAID-5 or RAID-6 array**

FRU List:

SIP3111

572C9022 **Two or more disk units missing from
RAID-5 or RAID-6 array**

FRU List:

SIP3111

572C9023 **One or more array members not in
required physical locations**

FRU List:

SIP3112

572C9024 **Array member physical location
conflicts with another array**

FRU List:

NEXTLVL

572C9025 **Incompatible device**

Servicer:

An incompatible device is at the physical location of the device which is causing the array to be exposed.

FRU List:

SIP3110

FI02112

572C9026 **Disk unit not found at required physical
location**

Servicer:

A previously exposed disk unit in an array was not found at the required physical location.

FRU List:

NEXTLVL

572C9027 **Array not functional due to parity out of
synchronization**

Servicer:

Array is or would become exposed and parity data is out of synchronization

FRU List:

SIP3113

572C9028 **Maximum number of functional arrays
has been exceeded**

Servicer:

Reduce the number of arrays on this I/O adapter.
Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:

SVCDOS

SIP3113

572C9029 Maximum number of functional array members has been exceeded
Service:

Contact your next level of support.

FRU List:

NEXTLVL

SIP3113

572C9030 Array no longer protected due to missing or failed disk unit
FRU List:

SIP3110

FI02112

572C9031 Automatic rebuild initiated for array
Service:

Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

572C9032 A disk unit in an array is missing or failed
Service:

The array is still protected, but the disk unit should be replaced.

FRU List:

SIP3110

FI02112

572C9040 Resynchronization of array parity was initiated
Service:

No action required.

572C9041 Background array parity check detected and corrected errors
Service:

Call your next level of support to report the problem.

FRU List:

NEXTLVL

572C9042 Background parity check corrected errors on disk unit
Service:

Call your next level of support to report the problem.

FRU List:

NEXTLVL

572C9050 Required cache data not found for one or more disk units
FRU List:

SIP3131

572C9051 Cache data exists for one or more missing or failed devices
FRU List:

SIP3132

572C9052 Cache data exists for one or more modified devices
Service:

Contact your next level of support.

FRU List:

NEXTLVL

572C9054 IOA resources not available due to previous problems
FRU List:

SIP3121

572C9070 System log entry only.
Service:

No service action required.

572C9071 **Link from IOA to auxiliary or remote IOA is operational**

Servicer:

No service action required.

572C9072 **Link from IOA to auxiliary or remote IOA is non-operational**

Servicer:

No service action required.

572C9073 **Multiple I/O adapters connected in a not valid configuration**

FRU List:

SIP3140

572C9074 **Multiple I/O adapters connected in a not valid configuration**

Servicer:

Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

FRU List:

SIP3141

572C9075 **Incomplete multipath connection between IOA and remote IOA**

FRU List:

SIP3149

572C9076 **Missing auxiliary IOA or remote IOA**

FRU List:

SIP3147

572C9081 **Device error**

FRU List:

FI01105

STORIOA

572C9082 **Device error**

FRU List:

FI01105

STORIOA

572C9090 **Disk unit has been modified after the last known status.**

Servicer:

Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCD0CS

572C9091 **Incorrect hardware configuration change has been detected.**

Servicer:

Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCD0CS

572C9092 **Disk unit requires initialization before use.**

FRU List:

SIP3134

572CC000 **System log entry only, no service action required**

Servicer:

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

572CC402 **Licensed Internal Code error**

Servicer:

Ask your next level of support for assistance..

FRU List:

PTFSRCH

572CFF3D I/O adapter detected a recoverable error

FRU List:

STORIOA

ANYBRDG

(573A, 576A) Reference codes

573A, 576A Reference codes.

Find the reference code in the following list.

573AB9B0 I/O adapter hardware error detected

FRU List:

IOA

AJDG301

576AB9B0 I/O adapter hardware error detected

FRU List:

IOA

AJDG301

(573B) Reference codes

573B Reference codes.

Find the reference code in the following list.

573BA6D9 I/O adapter hardware error detected

FRU List:

IOA

FI00722

AJDG301

FRU List:

IOA

AJDG301

573BA6E3 Ethernet adapter or network device
cabling error.

FRU List:

FI00722

UJE40

IOA

573BB200 I/O adapter hardware error detected

FRU List:

AJDG301

IOA

573BB300 I/O adapter hardware error detected

FRU List:

IOA

AJDG301

573BB100 I/O adapter hardware error detected

(573C) Reference codes

573C Reference codes.

Find the reference code in the following list.

573CA6D9 I/O adapter hardware error detected

FRU List:

IOA

FI00722

AJDG301

573CA6E3 Ethernet adapter or network device cabling error.

FRU List:
FI00722

UJE40

IOA

573CB100 I/O adapter hardware error detected

FRU List:
IOA

AJDG301

573CB200 I/O adapter hardware error detected

FRU List:
AJDG301

IOA

573CB300 I/O adapter hardware error detected

FRU List:
IOA

AJDG301

57B7 and 57B8 Reference codes

57B7 and 57B8 Reference codes.

The following reference code are produced from SAS I/O adapter.

57B71310 I/O adapter resource not available

Servicer:

The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

57B73100 Device bus interface error occurred

FRU List:

AUXIOA

PRIMIOA

BACKPLN

57B73400 Unknown resource error

FRU List:

PRIMIOA

AUXIOA

BACKPLN

57B74150 I/O adapter detected PCI bus error

Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

BACKPLN

AUXIOA

57B74160 I/O adapter detected and recovered a PCI bus error

Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

BACKPLN

AUXIOA

57B78008 A permanent cache battery pack failure occurred.

Servicer Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow

attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

CACHBAT

AUXIOA

57B78009 Impending cache battery pack failure
FRU List:

CACHBAT

57B78100 Licensed Internal Code error
FRU List:

PTFSRCH

AUXIOA

57B78130 IOA detected recoverable device bus error
Service:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

PRIMIOA

AUXIOA

BACKPLN

57B78140 IOA detected recoverable device bus error
Service:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

PRIMIOA

AUXIOA

BACKPLN

57B78150 A permanent failure occurred
Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

AUXIOA

ANYBRDG

57B78151 Licensed internal code error
FRU List:

PTFSRCH

AUXIOA

57B78155 A permanent failure occurred
FRU List:

PTFSRCH

AUXIOA

57B78156 A permanent failure occurred
FRU List:

PTFSRCH

AUXIOA

57B78157 I/O adapter card error
Service:

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with

this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

FRU List:

SVCDOS

57B78300 IOA hardware error or PCI bus error

FRU List:

AUXIOA

ANYBRDG

PTFSRCH

57B78301 Not valid condition in Licensed Internal Code

FRU List:

PTFSRCH

AUXIOA

57B78302 Missing licensed internal code

Servicer:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:

SVCDOS

AUXIOA

57B79055 Write cache data is available for attached storage IOA.

Servicer:

No service action required.

57B79071 Link from IOA to auxiliary or remote IOA is operational

Servicer:

No service action required.

57B79072 Link from IOA to auxiliary or remote IOA is non-operational

Servicer:

No service action required.

57B79073 Multiple I/O adapters connected in a not valid configuration.

Refer to isolation procedure SIP3140. Isolation procedure SIP3140 can be located in your host server's service guide.

57B79076 Missing auxiliary IOA or remote IOA.

Refer to isolation procedure SIP3147. Isolation procedure SIP3147 can be located in your host server's service guide.

FRU List:

PRIMIOA

AUXIOA

BACKPLN

57B7FF3D I/O adapter detected a recoverable error.

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

AUXIOA

ANYBRDG

57B81310 I/O adapter resource not available

Servicer:

The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

57B83000 A permanent failure occurred

FRU List:

STORIOA

ANYBRDG

57B83020 Storage subsystem configuration error

FRU List:

SIP3150

57B83100 Device bus interface error occurred**FRU List:**SIP3150

57B83140 System log entry only.**Servicer:**No service action required.

57B83202 Storage subsystem configuration error**Servicer:**

The device is not supported in the current configuration. An I/O processor might be required.

FRU List:SVCDOCS

57B83400 Unknown resource error**FRU List:**

SIP3150

FI02112

STORIOA

SASCABL

57B83401 Device backplane problem**FRU List:**

SASEXP

DEVBPLN

57B834FF Format in progress**Servicer:**No action required. This reference code is logged for information only.

57B83601 Format in progress**Servicer:**System log entry only, no service action required

57B84010 Configuration error**Servicer:**

Incorrect connection between cascaded enclosures.

FRU List:SIP3142

57B84020 Configuration error**Servicer:**

Number of connections exceed I/O adapter design limits.

FRU List:SIP3143

57B84030 Configuration error**Servicer:**

Incorrect multipath connection.

FRU List:SIP3144

57B84040 Configuration error**Servicer:**

Incomplete multipath connection between I/O adapter and enclosure.

FRU List:SIP3144

57B84041 Incomplete multipath connection**Servicer:**

Incomplete multipath connection between device backplane and device.

FRU List:SIP3146

57B84050 Enclosure does not support required multipath function**FRU List:**SIP3148

57B84060 Multipath redundancy level reduced**Servicer:**

A redundant disk unit connection has failed.

FRU List:

SIP3153

SASCABL

SASEXP

57B84061 Multipath redundancy level increased**Servicer:**A redundant disk unit connection has been restored. No service action is required.

57B84070 **System log entry only.**
Servicer:

No service action required.

57B84100 **Device bus fabric error**
FRU List:SIP3152
SASCABL
SASEXP

DEVBPLN

STORIOA

FI01105

57B84101 **Temporary device bus fabric error**
FRU List:

SIP3152

57B84110 **Unsupported enclosure function detected**
FRU List:

SIP3145

57B84150 **I/O adapter detected PCI bus error**
Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

BACKPLN

STORIOA

57B84160 **I/O adapter detected and recovered a PCI bus error**
Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

BACKPLN

STORIOA

57B88008 **A permanent cache battery pack failure occurred**
Servicer Response:**Note:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.**FRU List:**

CACHBAT

STORIOA

57B88009 **Impending cache battery pack failure**
FRU List:

CACHBAT

57B88100 **Licensed Internal Code error**
FRU List:

PTFSRCH

STORIOA

57B88130 **IOA detected recoverable device bus error**
Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:

SIP3150

57B88140 **IOA detected recoverable device bus error**
Servicer:

If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

FRU List:
SIP3150

57B88141 IOA detected recoverable device error

Service:

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

57B88146 Disk device detected recoverable error

FRU List:
FI01105

57B88150 A permanent failure occurred

Service Response:

Note: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

FRU List:

STORIOA

ANYBRDG

57B88151 Licensed Internal Code error

FRU List:

PTFSRCH

STORIOA

57B88155 A permanent failure occurred

FRU List:

PTFSRCH

STORIOA

57B88156 A permanent failure occurred

FRU List:

PTFSRCH

STORIOA

57B88157 I/O adapter card error

Service:

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

FRU List:

SVCDOCS

57B88301 Not valid condition in Licensed Internal Code

FRU List:

PTFSRCH

STORIOA

57B88302 Missing Licensed Internal Code

Service:

Ensure that the code necessary to support this I/O adapter is loaded.

FRU List:

SVCDOCS

STORIOA

57B88400 Licensed Internal Code error

FRU List:

PTFSRCH

57B88404 System log entry only.

Service:

No service action required.

57B89000 Device error

FRU List:

FI01105

STORIOA

57B89001 **Device configuration error**

FRU List:

NEXTLVL

57B89002 **Device error**

FRU List:

NEXTLVL

57B89008 **I/O card does not support functions
expected by devices**

FRU List:

SIP3130

57B89010 **Cache data associated with attached
devices cannot be found**

FRU List:

SIP3120

57B89011 **Cache data belongs to devices other
than those attached**

FRU List:

NEXTLVL

57B89020 **Two or more disk units missing from
RAID-5 or RAID-6 array**

FRU List:

SIP3111

57B89022 **Two or more disk units missing from
RAID-5 or RAID-6 array**

FRU List:

SIP3111

57B89023 **One or more array members not in
required physical locations**

FRU List:

SIP3112

57B89024 **Array member physical location
conflicts with another array**

FRU List:

NEXTLVL

57B89025 **Incompatible device**

Service:

An incompatible device is at the physical location of the device which is causing the array to be exposed.

FRU List:

SIP3110

FI02112

57B89026 **Disk unit not found at required physical
location**

Service:

A previously exposed disk unit in an array was not found at the required physical location.

FRU List:

NEXTLVL

57B89027 **Array not functional due to parity out of
synchronization**

Service:

Array is or would become exposed and parity data is out of synchronization

FRU List:

SIP3113

57B89028 **Maximum number of functional arrays
has been exceeded**

Service:

Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

FRU List:

SVCDOS

SIP3113

57B89029 **Maximum number of functional array
members has been exceeded**

Service:

Contact your next level of support.

FRU List:

NEXTLVL

SIP3113

57B89030 **Array no longer protected due to missing or failed disk unit**

FRU List:

SIP3110

FI02112

57B89031 **Automatic rebuild initiated for array**

Servicer:

Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

57B89032 **A disk unit in an array is missing or failed**

Servicer:

The array is still protected, but the disk unit should be replaced.

FRU List:

SIP3110

FI02112

57B89040 **Resynchronization of array parity was initiated**

Servicer:

No action required.

57B89041 **Background array parity check detected and corrected errors**

Servicer:

Call your next level of support to report the problem.

FRU List:

NEXTLVL

57B89042 **Background parity check corrected errors on disk unit**

Servicer:

Call your next level of support to report the problem.

FRU List:

NEXTLVL

57B89050 **Required cache data not found for one or more disk units**

FRU List:

SIP3131

57B89051 **Cache data exists for one or more missing or failed devices**

FRU List:

SIP3132

57B89052 **Cache data exists for one or more modified devices**

Servicer:

Contact your next level of support.

FRU List:

NEXTLVL

57B89054 **IOA resources not available due to previous problems**

FRU List:

SIP3121

57B89070 **System log entry only.**

Servicer:

No service action required.

57B89071 **Link from IOA to auxiliary or remote IOA is operational**

Servicer:

No service action required.

57B89072 **Link from IOA to auxiliary or remote IOA is non-operational**

Servicer:

No service action required.

57B89073 **Multiple I/O adapters connected in a not valid configuration**

FRU List:

SIP3140

57B89074 **Multiple I/O adapters connected in a not valid configuration**

Servicer:

Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

FRU List:

SIP3141

57B89075 **Incomplete multipath connection
between IOA and remote IOA**

FRU List:
SIP3149

57B89076 **Missing auxiliary IOA or remote IOA**

FRU List:
SIP3147

57B89081 **Device error**

FRU List:

FI01105

STORIOA

57B89082 **Device error**

FRU List:

FI01105

STORIOA

57B89091 **Incorrect hardware configuration change
has been detected.**

Servicer:

Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem. If you cannot resolve the problem, contact your next level of support.

FRU List:

SVCDOCS

57B89092 **Disk unit requires initialization before
use.**

FRU List:

SIP3134

57B8C000 **System log entry only, no service action
required**

Servicer:

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

57B8C402 **Licensed Internal Code error**

Servicer:

Ask your next level of support for assistance..

FRU List:

PTFSRCH

57B8FF3D **I/O adapter detected a recoverable error**

FRU List:

STORIOA

ANYBRDG

(5755) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - Yes: You have corrected the problem. This ends the procedure.
 - No: Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

57553202 Tape unit configuration error**Service Response:**

Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:

UH7CNFG

FI00871

57559020 Tape unit configuration error**Service Response:**

Before exchanging any parts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:

UH7CNFG

FI00871

PTFSRCH

57559100 Interface error detected by system or by tape unit**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

57559101 Fibre Channel interface error detected**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

57559102 Gateway device detected a SCSI interface error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

57559200 Tape unit is not responding**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

57559201 Tape unit command timeout**Servicer Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

57559202 Tape unit failed after Licensed Internal Code was loaded**Servicer Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

57559210 Illegal or unsupported tape unit response**FRU List:**

FI00871

FI01112

PTFSRCH

57559211 Gateway device detected a bus protocol error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

57559300 Tape unit failure**FRU List:**

FI00871

57559301 Tape device failure, redundancy lost**Servicer Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:

FI00871

57559302 Tape device failure or media error**Servicer Response:**

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:

MH7TMED

FI00871

57559303 Gateway device failure**Servicer Response:**

Use the gateway device servicedocumentation to analyze the problem.

FRU List:
FCGATE

57559310 Licensed Internal Code for the tape unit is not correct

FRU List:
PTFSRCH

FI00871

57559320 Tape device Licensed Internal Code failure

FRU List:
FI00130

FI00871

57559321 Gateway device Licensed Internal Code error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

57559350 Tape unit detected a read or write error on tape medium**Servicer Response:**

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

57559351 Tape with excessive error rate was mounted in tape device.**Servicer Response:**

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

57559355 The data format is incorrect; the tape cannot be read**Servicer Response:**

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:
UH7USER

MH7TMED

UH7CLN

FI00871

57559500 Licensed Internal Code error.**Servicer Response:**

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:
PTFSRCH

57559800 System successfully recovered from temporary I/O error**Servicer Response:**

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

57559801 System successfully recovered from temporary I/O error**Servicer Response:**

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

57559802 System successfully recovered from temporary I/O error**Servicer Response:**

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

57559803 System successfully recovered from temporary I/O error

Servicer Response:

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

57559804 System successfully recovered from temporary I/O error

Servicer Response:

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

57559810 Problem analysis has determined a part should be replaced.

Servicer Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

57559899 Problem analysis completed, the problem has been corrected.

Servicer Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

57559900 Licensed Internal Code for tape unit was not upgraded

Servicer Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

57559901 Tape performance statistics logged.

Servicer Response:

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

57559902 An IOP dump was initiated

Servicer Response:

No action required.

5755FFF6 Tape volume statistics logged (no action required)

Chapter 7. 6xxx Reference Codes

6xxx Reference Codes

(6149) Reference codes

1. Look at characters 1 through 8 of the top 16 character line of function 11 (8 rightmost characters of word 1). These 8 characters are the reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address.

6149B904	I/O adapter Licensed Internal Code failed.

FRU List:
AJDGP01

FI00719

FRU List:
FI00719

FI00718

AJDGP01

MA_BRDG

6149B920	I/O adapter Licensed Internal Code failed.

FRU List:
AJDGP01

FI00718

FI00719

6149B934	Incompatible hardware detected.

FRU List:
FI00719

FI00718

6149B921	I/O adapter hardware error detected

(6279, 6381, 6382, 6383, 6384, 6386, 6387, 63A0) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - Yes: You have corrected the problem. This ends the procedure.
 - No: Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

62793202	Tape unit configuration error

Servicer Response:

Before exchanging anyparts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:
UH7CNFG

FI00871

62799020 Tape unit configuration error

Service Response:

Before exchanging anyparts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:
UH7CNFG

FI00871

PTFSRCH

62799100 Interface error detected by system or by tape unit

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:
FI00871

FI01112

FI00872

DEVTERM

62799101 Fibre Channel interface error detected

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.

2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:
FCIOA

FCDEV

FCCABLE

62799102 Gateway device detected a SCSI interface error

Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FI00871

FCGATE

FI00872

DEVTERM

62799200 Tape unit is not responding

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:
FI00871

FI01112

FI00872

DEVTERM

62799201 Tape unit command timeout**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

62799202 Tape unit failed after Licensed Internal Code was loaded**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

62799210 Illegal or unsupported tape unit response**FRU List:**

FI00871

FI01112

PTFSRCH

62799211 Gateway device detected a bus protocol error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

62799300 Tape unit failure**FRU List:**

FI00871

62799301 Tape device failure, redundancy lost**Service Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:

FI00871

62799302 Tape device failure or media error**Service Response:**

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:

MH7TMED

FI00871

62799303 Gateway device failure**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

62799310 **Licensed Internal Code for the tape unit is not correct**

FRU List:
PTFSRCH

FI00871

62799320 **Tape device Licensed Internal Code failure**

FRU List:
FI00130

FI00871

62799321 **Gateway device Licensed Internal Code error**

Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

62799350 **Tape unit detected a read or write error on tape medium**

Service Response:

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

62799351 **Tape with excessive error rate was mounted in tape device.**

Service Response:

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

62799355 **The data format is incorrect; the tape cannot be read**

Service Response:

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:
UH7USER

MH7TMED

UH7CLN

FI00871

62799500 **Licensed Internal Code error.**

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:
PTFSRCH

62799800 **System successfully recovered from temporary I/O error**

Service Response:

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

62799801 **System successfully recovered from temporary I/O error**

Service Response:

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

62799802 **System successfully recovered from temporary I/O error**

Service Response:

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

62799803 **System successfully recovered from temporary I/O error**

Service Response:

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

62799804 System successfully recovered from temporary I/O error

Service Response:

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

62799810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

62799899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

62799900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

62799901 Tape performance statistics logged.

Service Response:

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

62799902 An IOP dump was initiated

Service Response:

No action required.

6279FFF6 Tape volume statistics logged (no action required)

63813202 Tape unit configuration error

Service Response:

Before exchanging anyparts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:

UH7CNFG

FI00871

63819020 Tape unit configuration error

Service Response:

Before exchanging anyparts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:

UH7CNFG

FI00871

PTFSRCH

63819100 Interface error detected by system or by tape unit

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63819101 Fibre Channel interface error detected**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

63819102 Gateway device detected a SCSI interface error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

63819200 Tape unit is not responding**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63819201 Tape unit command timeout**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

63819202 Tape unit failed after Licensed Internal Code was loaded**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63819210 **Illegal or unsupported tape unit response**

FRU List:
FI00871

FI01112

PTFSRCH

63819211 **Gateway device detected a bus protocol error**

Servicer Response:
Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

63819300 **Tape unit failure**

FRU List:
FI00871

63819301 **Tape device failure, redundancy lost**

Servicer Response:
The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:
FI00871

63819302 **Tape device failure or media error**

Servicer Response:
The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:
MH7TMED

FI00871

63819303 **Gateway device failure**

Servicer Response:
Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

63819310 **Licensed Internal Code for the tape unit is not correct**

FRU List:
PTFSRCH

FI00871

63819320 **Tape device Licensed Internal Code failure**

FRU List:
FI00130

FI00871

63819321 **Gateway device Licensed Internal Code error**

Servicer Response:
Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

63819350 **Tape unit detected a read or write error on tape medium**

Servicer Response:
A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

63819351 **Tape with excessive error rate was mounted in tape device.**

Servicer Response:
The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

63819355 The data format is incorrect; the tape cannot be read

Service Response:

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:

UH7USER

MH7TMED

UH7CLN

FI00871

63819500 Licensed Internal Code error.

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:

PTFSRCH

63819800 System successfully recovered from temporary I/O error

Service Response:

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

63819801 System successfully recovered from temporary I/O error

Service Response:

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

63819802 System successfully recovered from temporary I/O error

Service Response:

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

63819803 System successfully recovered from temporary I/O error

Service Response:

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

63819804 System successfully recovered from temporary I/O error

Service Response:

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

63819810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

63819899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

63819900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

63819901 Tape performance statistics logged.

Service Response:

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

63819902 An IOP dump was initiated**Service Response:**

No action required.

6381FFF6 Tape volume statistics logged (no action required)

63823202 Tape unit configuration error**Service Response:**

Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:

UH7CNFG

FI00871

63829020 Tape unit configuration error**Service Response:**

Before exchanging any parts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:

UH7CNFG

FI00871

PTFSRCH

63829100 Interface error detected by system or by tape unit**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63829101 Fibre Channel interface error detected**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

63829102 Gateway device detected a SCSI interface error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

63829200 Tape unit is not responding**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63829201 Tape unit command timeout**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

63829202 Tape unit failed after Licensed Internal Code was loaded**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63829210 Illegal or unsupported tape unit response**FRU List:**

FI00871

FI01112

PTFSRCH

63829211 Gateway device detected a bus protocol error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

63829300 Tape unit failure**FRU List:**

FI00871

63829301 Tape device failure, redundancy lost**Service Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:

FI00871

63829302 Tape device failure or media error**Service Response:**

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:

MH7TMED

FI00871

63829303 Gateway device failure**Service Response:**

Use the gateway device servicedocumentation to analyze the problem.

FRU List:
FCGATE

63829310 Licensed Internal Code for the tape unit is not correct

FRU List:
PTFSRCH

FI00871

63829320 Tape device Licensed Internal Code failure

FRU List:
FI00130

FI00871

63829321 Gateway device Licensed Internal Code error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

63829350 Tape unit detected a read or write error on tape medium**Service Response:**

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

63829351 Tape with excessive error rate was mounted in tape device.**Service Response:**

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

63829355 The data format is incorrect; the tape cannot be read**Service Response:**

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:
UH7USER

MH7TMED

UH7CLN

FI00871

63829500 Licensed Internal Code error.**Service Response:**

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:
PTFSRCH

63829800 System successfully recovered from temporary I/O error**Service Response:**

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

63829801 System successfully recovered from temporary I/O error**Service Response:**

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

63829802 System successfully recovered from temporary I/O error**Service Response:**

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

63829803 System successfully recovered from temporary I/O error

Service Response:

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

63829804 System successfully recovered from temporary I/O error

Service Response:

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

63829810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

63829899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

63829900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

63829901 Tape performance statistics logged.

Service Response:

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

63829902 An IOP dump was initiated

Service Response:

No action required.

6382FFF6 Tape volume statistics logged (no action required)

63833202 Tape unit configuration error

Service Response:

Before exchanging anyparts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:

UH7CNFG

FI00871

63839020 Tape unit configuration error

Service Response:

Before exchanging anyparts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:

UH7CNFG

FI00871

PTFSRCH

63839100 Interface error detected by system or by tape unit

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63839101 Fibre Channel interface error detected**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

63839102 Gateway device detected a SCSI interface error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

63839200 Tape unit is not responding**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63839201 Tape unit command timeout**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

63839202 Tape unit failed after Licensed Internal Code was loaded**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63839210 **Illegal or unsupported tape unit response**

FRU List:
FI00871

FI01112

PTFSRCH

63839211 **Gateway device detected a bus protocol error**

Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

63839300 **Tape unit failure**

FRU List:
FI00871

63839301 **Tape device failure, redundancy lost**

Service Response:

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:
FI00871

63839302 **Tape device failure or media error**

Service Response:

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:
MH7TMED

FI00871

63839303 **Gateway device failure**

Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

63839310 **Licensed Internal Code for the tape unit is not correct**

FRU List:
PTFSRCH

FI00871

63839320 **Tape device Licensed Internal Code failure**

FRU List:
FI00130

FI00871

63839321 **Gateway device Licensed Internal Code error**

Service Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

63839350 **Tape unit detected a read or write error on tape medium**

Service Response:

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

63839351 **Tape with excessive error rate was mounted in tape device.**

Service Response:

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

63839355 The data format is incorrect; the tape cannot be read

Service Response:

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:

UH7USER

MH7TMED

UH7CLN

FI00871

63839500 Licensed Internal Code error.

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:

PTFSRCH

63839800 System successfully recovered from temporary I/O error

Service Response:

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

63839801 System successfully recovered from temporary I/O error

Service Response:

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

63839802 System successfully recovered from temporary I/O error

Service Response:

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

63839803 System successfully recovered from temporary I/O error

Service Response:

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

63839804 System successfully recovered from temporary I/O error

Service Response:

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

63839810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

63839899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

63839900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

63839901 Tape performance statistics logged.

Service Response:

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

63839902 An IOP dump was initiated

Servicer Response:
No action required.

6383FFF6 Tape volume statistics logged (no action required)**63843202 Tape unit configuration error****Servicer Response:**

Before exchanging anyparts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:

UH7CNFG

FI00871

63849020 Tape unit configuration error**Servicer Response:**

Before exchanging anyparts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:

UH7CNFG

FI00871

PTFSRCH

63849100 Interface error detected by system or by tape unit**Servicer Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63849101 Fibre Channel interface error detected**Servicer Response:**

If the attacheddevice is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

63849102 Gateway device detected a SCSI interface error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

63849200 Tape unit is not responding**Servicer Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63849201 Tape unit command timeout**Servicer Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

63849202 Tape unit failed after Licensed Internal Code was loaded**Servicer Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63849210 Illegal or unsupported tape unit response**FRU List:**

FI00871

FI01112

PTFSRCH

63849211 Gateway device detected a bus protocol error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

63849300 Tape unit failure**FRU List:**

FI00871

63849301 Tape device failure, redundancy lost**Servicer Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:

FI00871

63849302 Tape device failure or media error**Servicer Response:**

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:

MH7TMED

FI00871

63849303 Gateway device failure**Servicer Response:**

Use the gateway device servicedocumentation to analyze the problem.

FRU List:

FCGATE

63849310 Licensed Internal Code for the tape unit is not correct**FRU List:**

PTFSRCH

FI00871

63849320 Tape device Licensed Internal Code failure**FRU List:**

FI00130

FI00871

63849321 Gateway device Licensed Internal Code error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCCODE

63849350 Tape unit detected a read or write error on tape medium**Servicer Response:**

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:

MH7TMED

UH7CLN

FI00871

63849351 Tape with excessive error rate was mounted in tape device.**Servicer Response:**

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:

MH7TMED

UH7CLN

FI00871

63849355 The data format is incorrect; the tape cannot be read**Servicer Response:**

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:

UH7USER

MH7TMED

UH7CLN

FI00871

63849500 Licensed Internal Code error.**Servicer Response:**

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:

PTFSRCH

63849800 System successfully recovered from temporary I/O error**Servicer Response:**

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

63849801 System successfully recovered from temporary I/O error**Servicer Response:**

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

63849802 System successfully recovered from temporary I/O error**Servicer Response:**

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

63849803 System successfully recovered from temporary I/O error

Service Response:

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

63849804 System successfully recovered from temporary I/O error

Service Response:

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

63849810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

63849899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

63849900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

63849901 Tape performance statistics logged.

Service Response:

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

63849902 An IOP dump was initiated

Service Response:

No action required.

6384FFF6 Tape volume statistics logged (no action required)

63863202 Tape unit configuration error

Service Response:

Before exchanging anyparts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:

UH7CNFG

FI00871

63869020 Tape unit configuration error

Service Response:

Before exchanging anyparts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:

UH7CNFG

FI00871

PTFSRCH

63869100 Interface error detected by system or by tape unit

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63869101 Fibre Channel interface error detected**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

63869102 Gateway device detected a SCSI interface error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

63869200 Tape unit is not responding**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63869201 Tape unit command timeout**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

63869202 Tape unit failed after Licensed Internal Code was loaded**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63869210 **Illegal or unsupported tape unit response**

FRU List:
FI00871

FI01112

PTFSRCH

63869211 **Gateway device detected a bus protocol error**

Service Response:
Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

63869300 **Tape unit failure**

FRU List:
FI00871

63869301 **Tape device failure, redundancy lost**

Service Response:
The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:
FI00871

63869302 **Tape device failure or media error**

Service Response:
The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:
MH7TMED

FI00871

63869303 **Gateway device failure**

Service Response:
Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

63869310 **Licensed Internal Code for the tape unit is not correct**

FRU List:
PTFSRCH

FI00871

63869320 **Tape device Licensed Internal Code failure**

FRU List:
FI00130

FI00871

63869321 **Gateway device Licensed Internal Code error**

Service Response:
Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

63869350 **Tape unit detected a read or write error on tape medium**

Service Response:
A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

63869351 **Tape with excessive error rate was mounted in tape device.**

Service Response:
The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

63869355 The data format is incorrect; the tape cannot be read

Service Response:

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:

UH7USER

MH7TMED

UH7CLN

FI00871

63869500 Licensed Internal Code error.

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:

PTFSRCH

63869800 System successfully recovered from temporary I/O error

Service Response:

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

63869801 System successfully recovered from temporary I/O error

Service Response:

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

63869802 System successfully recovered from temporary I/O error

Service Response:

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

63869803 System successfully recovered from temporary I/O error

Service Response:

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

63869804 System successfully recovered from temporary I/O error

Service Response:

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

63869810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

63869899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

63869900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

63869901 Tape performance statistics logged.

Service Response:

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

63869902 An IOP dump was initiated**Service Response:**

No action required.

6386FFF6 Tape volume statistics logged (no action required)

63873202 Tape unit configuration error**Service Response:**

Before exchanging anyparts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:

UH7CNFG

FI00871

63879020 Tape unit configuration error**Service Response:**

Before exchanging anyparts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:

UH7CNFG

FI00871

PTFSRCH

63879100 Interface error detected by system or by tape unit**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63879101 Fibre Channel interface error detected**Service Response:**

If the attacheddevice is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

63879102 Gateway device detected a SCSI interface error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

63879200 Tape unit is not responding**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63879201 Tape unit command timeout**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

63879202 Tape unit failed after Licensed Internal Code was loaded**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63879210 Illegal or unsupported tape unit response**FRU List:**

FI00871

FI01112

PTFSRCH

63879211 Gateway device detected a bus protocol error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

63879300 Tape unit failure**FRU List:**

FI00871

63879301 Tape device failure, redundancy lost**Service Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:

FI00871

63879302 Tape device failure or media error**Service Response:**

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:

MH7TMED

FI00871

63879303 Gateway device failure**Servicer Response:**

Use the gateway device servicedocumentation to analyze the problem.

FRU List:
FCGATE

63879310 Licensed Internal Code for the tape unit is not correct

FRU List:
PTFSRCH

FI00871

63879320 Tape device Licensed Internal Code failure

FRU List:
FI00130

FI00871

63879321 Gateway device Licensed Internal Code error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

63879350 Tape unit detected a read or write error on tape medium**Servicer Response:**

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

63879351 Tape with excessive error rate was mounted in tape device.**Servicer Response:**

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

63879355 The data format is incorrect; the tape cannot be read**Servicer Response:**

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:
UH7USER

MH7TMED

UH7CLN

FI00871

63879500 Licensed Internal Code error.**Servicer Response:**

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:
PTFSRCH

63879800 System successfully recovered from temporary I/O error**Servicer Response:**

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

63879801 System successfully recovered from temporary I/O error**Servicer Response:**

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

63879802 System successfully recovered from temporary I/O error**Servicer Response:**

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

63879803 System successfully recovered from temporary I/O error

Service Response:

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

63879804 System successfully recovered from temporary I/O error

Service Response:

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

63879810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

63879899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

63879900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

63879901 Tape performance statistics logged.

Service Response:

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

63879902 An IOP dump was initiated

Service Response:

No action required.

6387FFF6 Tape volume statistics logged (no action required)

63A03202 Tape unit configuration error

Service Response:

Before exchanging anyparts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:

UH7CNFG

FI00871

63A09020 Tape unit configuration error

Service Response:

Before exchanging anyparts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:

UH7CNFG

FI00871

PTFSRCH

63A09100 Interface error detected by system or by tape unit

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63A09101 Fibre Channel interface error detected**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

63A09102 Gateway device detected a SCSI interface error**Service Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

63A09200 Tape unit is not responding**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63A09201 Tape unit command timeout**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

63A09202 Tape unit failed after Licensed Internal Code was loaded**Service Response:**

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

63A09210 **Illegal or unsupported tape unit response**

FRU List:
FI00871

FI01112

PTFSRCH

63A09211 **Gateway device detected a bus protocol error**

Servicer Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

63A09300 **Tape unit failure**

FRU List:
FI00871

63A09301 **Tape device failure, redundancy lost**

Servicer Response:

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:
FI00871

63A09302 **Tape device failure or media error**

Servicer Response:

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:
MH7TMED

FI00871

63A09303 **Gateway device failure**

Servicer Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

63A09310 **Licensed Internal Code for the tape unit is not correct**

FRU List:
PTFSRCH

FI00871

63A09320 **Tape device Licensed Internal Code failure**

FRU List:
FI00130

FI00871

63A09321 **Gateway device Licensed Internal Code error**

Servicer Response:

Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

63A09350 **Tape unit detected a read or write error on tape medium**

Servicer Response:

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

63A09351 **Tape with excessive error rate was mounted in tape device.**

Servicer Response:

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

63A09355 The data format is incorrect; the tape cannot be read

Service Response:

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:

UH7USER

MH7TMED

UH7CLN

FI00871

63A09500 Licensed Internal Code error.

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:

PTFSRCH

63A09800 System successfully recovered from temporary I/O error

Service Response:

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

63A09801 System successfully recovered from temporary I/O error

Service Response:

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

63A09802 System successfully recovered from temporary I/O error

Service Response:

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

63A09803 System successfully recovered from temporary I/O error

Service Response:

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

63A09804 System successfully recovered from temporary I/O error

Service Response:

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

63A09810 Problem analysis has determined a part should be replaced.

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

63A09899 Problem analysis completed, the problem has been corrected.

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

UH7FIXD

63A09900 Licensed Internal Code for tape unit was not upgraded

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

UH7USER

63A09901 Tape performance statistics logged.

Service Response:

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

63A09902 An IOP dump was initiated

Servicer Response:
No action required.

63A0FFF6 Tape volume statistics logged (no action required)

(632x, 6330, 6331, 6333, 6336, 6337) Optical storage unit reference codes

An optical storage unit failure occurred.

Note:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that may assist in analyzing the problem. The WRKPRB entry will provide a unit reference code that can be found in the following table.

Perform the following:

1. If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?
 - **Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**
 - **No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

6320C000 System log entry only, no service action required

Servicer Response:

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

6320C002 SCSI selection or reselection timeout occurred

FRU List:
FI00870

CNVTCRD

FI01106

STORIOA

MEDIA

FI01141

FI01140

6320C010 Undefined sense key returned by device

FRU List:
FI00870

6320C020 Device internal configuration error

FRU List:
FI00870

6320C100 SCSI bus command error occurred

FRU List:
FI00870

CNVTCRD

FI01106

STORIOA

MEDIA

FI01141

FI01140

6320C110 SCSI command timeout occurred

FRU List:
FI00870

CNVTCRD

FI01106

STORIOA

MEDIA

FI01141

FI01140

6320C210 Unexpected device condition recovered**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6320C300 Media or device error occurred**Service Response:**

Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

FRU List:

MEDIA

FI00870

6320C301 Media or device error occurred**Service Response:**

Dust check encountered. Optical media and/or drive's optical lens is dirty. Clean the optical drive and the media contained in the drive.

6320C302 Media or device error occurred**Service Response:**

The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable. Clean the optical drive and the media contained in the drive.

6320C303 Media had an unknown format**Service Response:**

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

6320C333 Incompatible media was detected**Service Response:**

Perform the following:

1. Verify that the disk has a format that is given support.
2. If the format is given support, clean the disk and attempt the failing operation again.
3. If the operation fails again with the same reference code, ask your media source for a replacement disk.

FRU List:

MEDIA

FI00870

6320C400 Interface error detected by device**FRU List:**

FI00870

CNVTCRD

FI01106

STORIOA

MEDIA

FI01141

FI01140

6320C402 Licensed Internal Code error**Service Response:**

Ask your next level of support for assistance.

FRU List:

FI00130

6320CFF2 Recovered from device not ready - Start Unit issued**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6320CFF4 Internal device error occurred**FRU List:**

FI00870

MEDIA

6320CFF6 Device successfully recovered from a temporary error.**Service Response:**

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

6320CFF7 Recovered device error.**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6320CFFE Recovered SCSI bus error**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6320FF09 Licensed Internal Code for optical device was not upgraded**Service Response:**

This reference code is logged for information only.

6320FF3D Recovered IOA error.**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6320FF6D Recovered System bus error**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6321C000 System log entry only, no service action required**Service Response:**

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

6321C002 SCSI selection or reselection timeout occurred

FRU List:
FI00870

CNVTCRD

FI01106

STORIOA

MEDIA

FI01141

FI01140

6321C010 Undefined sense key returned by device

FRU List:
FI00870

6321C020 Device internal configuration error

FRU List:
FI00870

6321C100 SCSI bus command error occurred

FRU List:
FI00870

CNVTCRD

FI01106

STORIOA

MEDIA

FI01141

FI01140

6321C110 SCSI command timeout occurred

FRU List:
FI00870

CNVTCRD

FI01106

STORIOA

MEDIA

FI01141

FI01140

6321C210 Unexpected device condition recovered**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6321C300 Media or device error occurred**Service Response:**

Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

FRU List:
MEDIA

FI00870

6321C301 Media or device error occurred**Service Response:**

Dust check encountered. Optical media and/or drive's optical lens is dirty. Clean the optical drive and the media contained in the drive.

6321C302 Media or device error occurred**Service Response:**

The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable. Clean the optical drive and the media contained in the drive.

6321C303 Media had an unknown format**Service Response:**

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

6321C333 Incompatible media was detected**Service Response:**

Perform the following:

1. Verify that the disk has a format that is given support.
2. If the format is given support, clean the disk and attempt the failing operation again.
3. If the operation fails again with the same reference code, ask your media source for a replacement disk.

FRU List:

MEDIA

FI00870

6321C400 Interface error detected by device**FRU List:**

FI00870

CNVTCRD

FI01106

STORIOA

MEDIA

FI01141

FI01140

6321C402 Licensed Internal Code error**Service Response:**

Ask your next level of support for assistance.

FRU List:

FI00130

6321CFF2 Recovered from device not ready - Start Unit issued**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6321CFF4 Internal device error occurred**FRU List:**

FI00870

MEDIA

6321CFF6 Device successfully recovered from a temporary error.**Service Response:**

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

6321CFF7 Recovered device error.**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6321CFFE Recovered SCSI bus error**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6321FF09 Licensed Internal Code for optical device was not upgraded**Service Response:**

This reference code is logged for information only.

6321FF3D Recovered IOA error.**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6321FF6D Recovered System bus error**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

632BCFC1 **Virtual media list access problem. A virtual optical device cannot access the file containing the list of volumes.**

Service Response:

On this partition and the Network File System server, ensure the proper file is specified and proper authority is granted.

FRU List:
SVCDOCS

632BCFC2 **VError reading virtual volume list. A non-recoverable error was detected while reading the list of volumes.**

Service Response:

Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.

FRU List:
SVCDOCS

632BCFC3 **Virtual media volume list is not valid. The data in the list of volumes is not valid.**

Service Response:

On the Network File System server, ensure that the proper file is specified, that all files are entered correctly, that there are no blank lines, and that the character set used is valid.

FRU List:
SVCDOCS

632BCFC4 **Virtual optical volume access problem. A virtual optical device cannot access the file containing the specified optical volume.**

Service Response:

On the Network File System server, ensure the proper file is specified in the list of volumes, and that the proper authority is granted.

FRU List:
SVCDOCS

632BCFC5 **Error reading virtual optical volume. A non-recoverable error was detected while reading a virtual optical volume.**

Service Response:

Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.

FRU List:
SVCDOCS

632BCFC6 **Virtual optical volume is not valid. The file specified does not contain data that can be processed as a virtual optical volume.**

Service Response:

On the Network File System server, ensure all the files specified in the list of optical volumes are correct.

FRU List:
SVCDOCS

632BCFC7 **Virtual optical device detected error. A virtual optical device detected an error reported by the Network File System server that cannot be recovered.**

Service Response:

Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.

FRU List:
SVCDOCS

632BCFC8 **Virtual optical device error. A virtual optical device encountered a non-recoverable error.**

Service Response:

Contact your next level of support for assistance.

FRU List:
NEXTLVL

632CC000 **System log entry only, no service action required**

Service Response:

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

632CC002 **SCSI selection or reselection timeout occurred**

Service Response:

Refer to the hosting partition for problem analysis.

632CC010 **Undefined sense key returned by device**

Service Response:

Refer to the hosting partition for problem analysis.

632CC020 **Device internal configuration error**

Service Response:

Refer to the hosting partition for problem analysis.

632CC100 SCSI bus command error occurred**Servicer Response:**

Refer to the hosting partition for problem analysis.

632CC110 SCSI command timeout occurred**Servicer Response:**

Refer to the hosting partition for problem analysis.

**632CC210 Unexpected device condition recovered.
The device successfully recovered from
a temporary error.****Servicer Response:**

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

632CC300 Media or device error occurred**Servicer Response:**

Refer to the hosting partition for problem analysis.

632CC301 Media or device error occurred**Servicer Response:**

Refer to the hosting partition for problem analysis.

632CC302 Incompatible media was detected**Servicer Response:**

Perform the following:

1. Verify that the disk has a format that is given support.
 2. If the format is given support, clean the disk and attempt the failing operation again.
 3. If the operation fails again with the same reference code, ask your media source for a replacement disk.
 - 4.
-

632CC303 Media had an unknown format**Servicer Response:**

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

632CC333 Incompatible media was detected**Servicer Response:**

Perform the following:

1. Verify that the disk has a format that is given support.
 2. If the format is given support, clean the disk and attempt the failing operation again.
 3. If the operation fails again with the same reference code, ask your media source for a replacement disk.
 - 4.
-

632CC400 Interface error detected by device**Servicer Response:**

Refer to the hosting partition for problem analysis.

**632CC402 Licensed Internal Code program error
occurred****Servicer Response:**

Ask your next level of support for assistance.

FRU List:

PTFSRCH

**632CCFF2 Recovered from device not ready - Start
Unit issued. The device successfully
recovered from a temporary error.****Servicer Response:**

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

632CCFF4 Internal device error occurred**Servicer Response:**

Refer to the hosting partition for problem analysis.

**632CCFF6 The device successfully recovered from
a temporary error****Servicer Response:**

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

**632CCFF7 Recovered device error. The device
successfully recovered from a temporary
error.****Servicer Response:**

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

**632CCFFE Recovered SCSI bus error. The device
successfully recovered from a temporary
error.****Servicer Response:**

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

**632CFF3D Recovered IOA error. The device
successfully recovered from a temporary
error.****Servicer Response:**

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

632CFF6D **Recovered System bus error. The device successfully recovered from a temporary error.**

Service Response:

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

6330C000 **System log entry only, no service action required**

Service Response:

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

6330C002 **SCSI selection or reselection timeout occurred**

FRU List:

FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6330C010 **Undefined sense key returned by device**

FRU List:

FI00870

6330C020 **Device internal configuration error**

FRU List:

FI00870

6330C100 **SCSI bus command error occurred**

FRU List:

FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6330C110 **SCSI command timeout occurred**

FRU List:

FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6330C210 **Unexpected device condition recovered**

Service Response:

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6330C300 **Media or device error occurred**

Service Response:

Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

FRU List:

MEDIA

FI00870

6330C301 **Media or device error occurred**

Service Response:

Dust check encountered. Optical media and/or drive's optical lens is dirty.Clean the optical drive and the media contained in the drive.

6330C302 **Media or device error occurred**

Service Response:

While writing to the media, an 'out of spare sectors' condition was encountered. The media can no longer be written to but is still readable.Clean the optical drive and the media contained in the drive.

6330C303 Media had an unknown format**Service Response:**

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

6330C333 Incompatible media was detected**Service Response:**

Perform the following:

1. Verify that the disk has a format that is given support.
2. If the format is given support, clean the disk and attempt the failing operation again.
3. If the operation fails again with the same reference code, ask your media source for a replacement disk.

FRU List:

MEDIA

FI00870

6330C400 Interface error detected by device**FRU List:**

FI00870

FI01106

FI01112

FI01140

FI01141

DEVTERM

CDTRAY

6330C402 I/O processor internal program error occurred**Service Response:**

Ask your next level of support for assistance.

FRU List:

FI00130

6330CFF2 Recovered from device not ready - Start Unit issued**Service Response:**

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6330CFF4 Internal device error occurred**FRU List:**

FI00870

6330CFF6 Device recovered from error after retries**Service Response:**

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6330CFF7 Recovered device error**Service Response:**

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6330CFE Recovered SCSI bus error**Service Response:**

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6330FF09 Licensed Internal Code for optical device was not upgraded**Service Response:**

This reference code is logged for information only.

6330FF3D Recovered I/O processor error**Service Response:**

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6330FF6D Recovered System bus error**Service Response:**

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6331C000 System log entry only, no service action required**Service Response:**

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

6331C002 SCSI selection or reselection timeout occurred**FRU List:**

FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6331C010 Undefined sense key returned by device**FRU List:**
FI00870

6331C020 Device internal configuration error**FRU List:**
FI00870

6331C100 SCSI bus command error occurred**FRU List:**
FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6331C110 SCSI command timeout occurred**FRU List:**
FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6331C210 Unexpected device condition recovered**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6331C300 Media or device error occurred**Service Response:**

Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

FRU List:
MEDIA

FI00870

6331C301 Media or device error occurred**Service Response:**

Dust check encountered. Optical media and/or drive's optical lens is dirty. Clean the optical drive and the media contained in the drive.

6331C302 Media or device error occurred**Service Response:**

While writing to the media, an 'out of spare sectors' condition was encountered. The media can no longer be written to but is still readable. Clean the optical drive and the media contained in the drive.

6331C303 Media had an unknown format**Service Response:**

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

6331C333 Incompatible media was detected**Service Response:**

Perform the following:

1. Verify that the disk has a format that is given support.
2. If the format is given support, clean the disk and attempt the failing operation again.
3. If the operation fails again with the same reference code, ask your media source for a replacement disk.

FRU List:
MEDIA

FI00870

6331C400 **Interface error detected by device****FRU List:**
FI00870

FI01106

FI01112

FI01140

FI01141

DEVTERM

CDTRAY

6331C402 **I/O processor internal program error occurred****Service Response:**

Ask your next level of support for assistance.

FRU List:
FI00130

6331CFF2 **Recovered from device not ready - Start Unit issued****Service Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6331CFF4 **Internal device error occurred****FRU List:**
FI00870

6331CFF6 **Device recovered from error after retries****Service Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6331CFF7 **Recovered device error****Service Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6331CFFE **Recovered SCSI bus error****Service Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6331FF09 **Licensed Internal Code for optical device was not upgraded****Service Response:**This reference code is logged for information only.

6331FF3D **Recovered I/O processor error****Service Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6331FF6D **Recovered System bus error****Service Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6333C000 **System log entry only, no service action required****Service Response:**No action is required. This reference code is logged for information only.

6333C002 **SCSI selection or reselection timeout occurred****FRU List:**
FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6333C010 **Undefined sense key returned by device****FRU List:**
FI00870

6333C020 **Device internal configuration error****FRU List:**
FI00870

6333C100 SCSI bus command error occurred**FRU List:**

FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6333C110 SCSI command timeout occurred**FRU List:**

FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6333C210 Unexpected device condition recovered**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6333C300 Media or device error occurred**Service Response:**

Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

FRU List:

MEDIA

FI00870

6333C301 Media or device error occurred**Service Response:**

Dust check encountered. Optical media and/or drive's optical lens is dirty. Clean the optical drive and the media contained in the drive.

6333C302 Media or device error occurred**Service Response:**

While writing to the media, an 'out of spare sectors' condition was encountered. The media can no longer be written to but is still readable. Clean the optical drive and the media contained in the drive.

6333C303 Media had an unknown format**Service Response:**

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

6333C333 Incompatible media was detected**Service Response:**

Perform the following:

1. Verify that the disk has a format that is given support.
2. If the format is given support, clean the disk and attempt the failing operation again.
3. If the operation fails again with the same reference code, ask your media source for a replacement disk.

FRU List:

MEDIA

FI00870

6333C400 Interface error detected by device**FRU List:**

FI00870

FI01106

FI01112

FI01140

FI01141

DEVTERM

CDTRAY

6333C402 I/O processor internal program error occurred**Service Response:**

Ask your next level of support for assistance.

FRU List:
FI00130

6333CFF2 Recovered from device not ready - Start Unit issued

Service Response:

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6333CFF4 Internal device error occurred

FRU List:
FI00870

6333CFF6 Device recovered from error after retries

Service Response:

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6333CFF7 Recovered device error

Service Response:

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6333CFFE Recovered SCSI bus error

Service Response:

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6333FF09 Licensed Internal Code for optical device was not upgraded

Service Response:

This reference code is logged for information only.

6333FF3D Recovered I/O processor error

Service Response:

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6333FF6D Recovered System bus error

Service Response:

The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6336C000 System log entry only, no service action required

Service Response:

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

6336C002 SCSI selection or reselection timeout occurred

FRU List:
FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6336C010 Undefined sense key returned by device

FRU List:
FI00870

6336C020 Device internal configuration error

FRU List:
FI00870

6336C100 SCSI bus command error occurred

FRU List:
FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6336C110 SCSI command timeout occurred**FRU List:**

FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6336C210 Unexpected device condition recovered**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6336C300 Media or device error occurred**Service Response:**

Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

FRU List:

MEDIA

FI00870

6336C301 Media or device error occurred**Service Response:**

Dust check encountered. Optical media and/or drive's optical lens is dirty. Clean the optical drive and the media contained in the drive.

6336C302 Media or device error occurred**Service Response:**

While writing to the media, an 'out of spare sectors' condition was encountered. The media can no longer be written to but is still readable. Clean the optical drive and the media contained in the drive.

6336C303 Media had an unknown format**Service Response:**

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

6336C333 Incompatible media was detected**Service Response:**

Perform the following:

1. Verify that the disk has a format that is given support.
2. If the format is given support, clean the disk and attempt the failing operation again.
3. If the operation fails again with the same reference code, ask your media source for a replacement disk.

FRU List:

MEDIA

FI00870

6336C400 Interface error detected by device**FRU List:**

FI00870

FI01106

FI01112

FI01140

FI01141

DEVTERM

CDTRAY

6336C402 I/O processor internal program error occurred**Service Response:**

Ask your next level of support for assistance.

FRU List:

FI00130

6336CFF2 Recovered from device not ready - Start Unit issued**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6336CFF4 Internal device error occurred**FRU List:**
FI00870

6336CFF6 Device recovered from error after retries**Servicer Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6336CFF7 Recovered device error**Servicer Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6336CFFE Recovered SCSI bus error**Servicer Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6336FF09 Licensed Internal Code for optical device was not upgraded**Servicer Response:**This reference code is logged for information only.

6336FF3D Recovered I/O processor error**Servicer Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6336FF6D Recovered System bus error**Servicer Response:**The device successfully recovered from a temporary error.No action is required. This reference code is logged for information only.

6337C000 System log entry only, no service action required**Servicer Response:**No action is required. This reference code is logged for information only.

6337C002 SCSI selection or reselection timeout occurred**FRU List:**
FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6337C010 Undefined sense key returned by device**FRU List:**
FI00870

6337C020 Device internal configuration error**FRU List:**
FI00870

6337C100 SCSI bus command error occurred**FRU List:**
FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6337C110 SCSI command timeout occurred**FRU List:**
FI00870

FI01106

FI01112

MEDIA

FI01140

FI01141

DEVTERM

CDTRAY

6337C210 Unexpected device condition recovered**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6337C300 Media or device error occurred**Service Response:**

Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

FRU List:

MEDIA

FI00870

6337C301 Media or device error occurred**Service Response:**

Dust check encountered. Optical media and/or drive's optical lens is dirty. Clean the optical drive and the media contained in the drive.

6337C302 Media or device error occurred**Service Response:**

While writing to the media, an 'out of spare sectors' condition was encountered. The media can no longer be written to but is still readable. Clean the optical drive and the media contained in the drive.

6337C303 Media had an unknown format**Service Response:**

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

6337C333 Incompatible media was detected**Service Response:**

Perform the following:

1. Verify that the disk has a format that is given support.
2. If the format is given support, clean the disk and attempt the failing operation again.
3. If the operation fails again with the same reference code, ask your media source for a replacement disk.

FRU List:

MEDIA

FI00870

6337C400 Interface error detected by device**FRU List:**

FI00870

FI01106

FI01112

FI01140

FI01141

DEVTERM

CDTRAY

6337C402 I/O processor internal program error occurred**Service Response:**

Ask your next level of support for assistance.

FRU List:

FI00130

6337CFF2 Recovered from device not ready - Start Unit issued**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6337CFF4 Internal device error occurred**FRU List:**

FI00870

6337CFF6 Device recovered from error after retries**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6337CFF7 Recovered device error**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6337CFFE Recovered SCSI bus error**Service Response:**

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6337FF09 **Licensed Internal Code for optical device was not upgraded**

Service Response:

This reference code is logged for information only.

6337FF3D **Recovered I/O processor error**

Service Response:

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

6337FF6D **Recovered System bus error**

Service Response:

The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.

(660x, 671x, 673x) Disk unit reference codes

Disk unit reference codes.

If the error is reported on the control panel, the reference code is characters 1 through 8 of the top 16 character line of function 11. If the error is reported on the console, the reference code is the 8 rightmost characters of word 1. Find the reference code in the following list. If the failing item is a disk unit, go to Start Disk Service.

Attention: The 673x is a read cache. Perform all actions required for 673x as a disk drive and logic card except where separate 673x cache instructions are provided.

660x102E **Out of alternate sectors for disk storage**

FRU List:
DISKDRV

FRU List:
DISKDRV

FI01106

660x3002 **Addressed device failed to respond to selection**

FRU List:
DISKDRV

STORIOA

FI01140

STORIOA

BACKPLN

FI01106

FI01140

660x3029 **A device replacement has occurred**

Service Response:

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

660x3010 **Disk device returned wrong response to IOA**

FRU List:
DISKDRV

660x3100 **Tape/optical or disk bus interface error occurred**

Service Response:

Perform DSKIP03.

FRU List:
DISKDRV

STORIOA

STORIOA

FI01140

FI01106

FI01141

FI01140

660x3020 **Storage subsystem configuration error**

Service Response:

If an MES is being installed, verify the configuration.

660x3109 **IOA timed out a disk command**

FRU List:
DISKDRV

STORIOA

FI01106

FI01140

660x3110 Disk bus interface error occurred**Service Response:**

Perform DSKIP03.

FRU List:

STORIOA

DISKDRV

FI01106

FI01140

660x3130 Device Licensed Internal Code**Service Response:**

The device is not supported with the level of code currently on the system. Contact your next level of support.

FRU List:

SVCDOCS

660x3131 Device or IOA Licensed Internal Code**Service Response:**

The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

FRU List:

SVCDOCS

660x7000 Disk sector read error**Service Response:**

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

FRU List:

DISKDRV

660x7001 Temporary disk data error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

660x7003 Device format error**Service Response:**

If the disk has not been formatted by the system, initialize and format the disk.

660x7004 System log entry only. No service action required.

660x7050 Data compression failure**Service Response:**

Contact your next level of support.

FRU List:

SVCDOCS

660x7051 Compressed device and compression IOA are not compatible**Service Response:**

Perform the procedure specified in "Recovering From 6xxx7051 SRC" in the *Backup and Recovery Guide*.

FRU List:

CMPRES1

660x7052 Data compression warning**Service Response:**

Perform the procedure specified in "Recovering From 6xxx7052 SRC " in the *Backup and Recovery Guide*.

FRU List:

SVCDOCS

660xFF2 Disk motor problem**FRU List:**

DISKDRV

660xFF3 Disk media format not valid**FRU List:**

DISKDRV

660xFF4 Disk device problem**FRU List:**

DISKDRV

STORIOA

660xFF5 Disk sector read error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

660xFFFF6 Disk device detected recoverable error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

660xFFFF7 Temporary disk data error**Service Response:**

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

FRU List:
DISKDRV

660xFFFF8 Temporary disk data error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

660xFFFF9 Temporary disk data error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

660xFFFFA Temporary disk bus error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

STORIOA

FI01140

FI01141

BACKPLN

660xFFFFB SCSI bus reset occurred**Service Response:**

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

660xFFFFE Temporary disk bus error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

STORIOA

FI01106

FI01140

671x102E Out of alternate sectors for disk storage

FRU List:
DISKDRV

671x3002 Addressed device failed to respond to selection

FRU List:
DISKDRV

STORIOA

BACKPLN

FI01106

FI01140

671x3010 Disk device returned wrong response to IOA

FRU List:
DISKDRV

STORIOA

FI01140

FI01141

671x3020 Storage subsystem configuration error**Service Response:**

If an MES is being installed, verify the configuration.

FRU List:
DISKDRV

FI01106

STORIOA

FI01140

671x3029 A device replacement has occurred**Service Response:**

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

671x3100 Tape/optical or disk bus interface error occurred**Service Response:**

Perform DSKIP03.

FRU List:

DISKDRV

STORIOA

FI01106

FI01140

671x3109 IOA timed out a disk command**FRU List:**

DISKDRV

STORIOA

FI01106

FI01140

671x3110 Disk bus interface error occurred**Service Response:**

Perform DSKIP03.

FRU List:

STORIOA

DISKDRV

FI01106

FI01140

671x3130 Device Licensed Internal Code**Service Response:**

The device is not supported with the level of code currently on the system. Contact your next level of support.

FRU List:

SVCDOCS

671x3131 Device or IOA Licensed Internal Code**Service Response:**

The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

FRU List:

SVCDOCS

671x7000 Disk sector read error**Service Response:**

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

FRU List:

DISKDRV

671x7001 Temporary disk data error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

671x7003 Device format error**Service Response:**

If the disk has not been formatted by the system, initialize and format the disk.

671x7004 System log entry only. No service action required.

671x7050 Data compression failure**Service Response:**

Contact your next level of support.

FRU List:

SVCDOCS

671x7051 Compressed device and compression IOA are not compatible**Service Response:**

The customer should perform the procedure specified in "Recovering From 6xxx7051 SRC" in the *Backup and Recovery Guide*.

FRU List:

CMPRES1

671x7052 Data compression warning**Service Response:**

The customer should perform the procedure specified in "Recovering From 6xxx7052 SRC " in the *Backup and Recovery Guide*.

FRU List:

SVCDOS

671xFFF2 Disk motor problem**FRU List:**

DISKDRV

671xFFF3 Disk media format not valid**FRU List:**

DISKDRV

671xFFF4 Disk device problem**FRU List:**

DISKDRV

STORIOA

671xFFF5 Disk sector read error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

671xFFF6 Disk device detected recoverable error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

671xFFF7 Temporary disk data error**Service Response:**

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

FRU List:

DISKDRV

671xFFF8 Temporary disk data error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

671xFFF9 Temporary disk data error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

671xFFFA Temporary disk bus error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

STORIOA

FI01140

FI01141

BACKPLN

671xFFFB SCSI bus reset occurred**Service Response:**

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

671xFFFE Temporary disk bus error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

STORIOA

FI01106

FI01140

673x102E Out of alternate sectors for disk storage**FRU List:**

DISKDRV

673x3002 Addressed device failed to respond to selection

FRU List:
DISKDRV

STORIOA

BACKPLN

FI01106

FI01140

673x3010 Disk device returned wrong response to IOA

FRU List:
DISKDRV

STORIOA

FI01140

FI01141

673x3020 Storage subsystem configuration error

Service Response:

If an MES is being installed, verify the configuration.

FRU List:
DISKDRV

FI01106

STORIOA

FI01140

673x3029 A device replacement has occurred

Service Response:

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

673x3100 Tape/optical or disk bus interface error occurred

Service Response:
Perform DSKIP03.

FRU List:
DISKDRV

STORIOA

FI01106

FI01140

673x3109 IOA timed out a disk command

FRU List:
DISKDRV

STORIOA

FI01106

FI01140

673x3110 Disk bus interface error occurred

Service Response:

Perform DSKIP03.

FRU List:
STORIOA

DISKDRV

FI01106

FI01140

673x3130 Device Licensed Internal Code

Service Response:

The device is not supported with the level of code currently on the system. Contact your next level of support.

FRU List:
SVCDOCS

673x3131 Device or IOA Licensed Internal Code

Service Response:

The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

FRU List:
SVCDOCS

673x7000 Disk sector read error

Service Response:

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

FRU List:
DISKDRV

673x7001 Temporary disk data error

Service Response:

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:

DISKDRV

673x7003 Device format error**Service Response:**

If the disk has not been formatted by the system, initialize and format the disk. See *Work with disk unit recovery*.

673x7004 System log entry only. No service action required.**673x7050 Data compression failure****Service Response:**

Contact your next level of support.

FRU List:
SVCDOCS

673x7051 Compressed device and compression IOA are not compatible**Service Response:**

The customer should perform the procedure specified in "Recovering From 6xxx7051 SRC" in the *Backup and Recovery Guide*.

FRU List:
CMPRES1

673x7052 Data compression warning**Service Response:**

The customer should perform the procedure specified in "Recovering From 6xxx7052 SRC" in the *Backup and Recovery Guide*.

FRU List:
SVCDOCS

673xFF2 Disk motor problem

FRU List:
DISKDRV

673xFF3 Disk media format not valid

FRU List:
DISKDRV

673xFF4 Disk device problem

FRU List:
DISKDRV

STORIOA

673xFF5 Disk sector read error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

673xFF6 Disk device detected recoverable error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

673xFF7 Temporary disk data error**Service Response:**

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

FRU List:
DISKDRV

673xFF8 Temporary disk data error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

673xFF9 Temporary disk data error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

673xFFA Temporary disk bus error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

STORIOA

FI01140

FI01141

BACKPLN

673xFFFB SCSI bus reset occurred**Service Response:**

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

673xFFFE Temporary disk bus error**Service Response:**

A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code.

FRU List:
DISKDRV

STORIOA

FI01106

FI01140

(6A59) Workstation adapter console reference codes

The workstation adapter console detected a failure.

Look at characters 1 through 8 of the top 16 character line of function 11 (8 rightmost characters of word 1). These 8 characters are the reference code. Find the reference code in the following list.

6A590AD2 Communications adapter card test failed**FRU List:**
FI00718

6A590AD3 Communications adapter card test failed**FRU List:**
FI00718

6A590B25 Communications adapter card test failed**FRU List:**
FI00719

FI00718

FI00727

6A590BA0 Communications adapter card test failed**FRU List:**
FI00719

FI00718

6A590BAB Communications adapter card test failed**FRU List:**
FI00719

FI00718

6A590BB0 Communications adapter card test failed**FRU List:**
FI00719

FI00718

6A590BD0 Communications adapter card test failed**FRU List:**
FI00719

FI00718

6A590BD1 Communications adapter card test failed**FRU List:**
FI00719

FI00718

6A590BEE I/O card Licensed Internal Code ended abnormally**FRU List:**
FI00719

FI00718

6A590C10 Communications adapter card test failed**FRU List:**
FI00719

FI00718

FI00727

6A590C20 Communications adapter card test failed**FRU List:**
FI00719

FI00718

6A590C30 **Adapter card failed modem interface test**

FRU List:
FI00719

FI00718

6A590C40 **Synchronous-data-link-control send-receive test failed**

FRU List:
FI00719

FI00718

6A590C43 **Synchronous-data-link-control send-receive test failed**

FRU List:
FI00719

FI00718

6A590C50 **Binary synchronous control send-receive test failed**

FRU List:
FI00719

FI00718

6A590C53 **Binary synchronous control send-receive test failed**

FRU List:
FI00719

FI00718

6A590C60 **Asynchronous send-receive test failed**

FRU List:
FI00719

FI00718

6A590C63 **Asynchronous send-receive test failed**

FRU List:
FI00719

FI00718

6A590C70 **Communications adapter card test failed**

FRU List:
FI00719

FI00718

6A590C80 **Communications adapter card test failed**

FRU List:
FI00719

FI00718

6A590C90 **Communications adapter card X.21 test failed**

FRU List:
FI00719

FI00718

6A590CA1 **Communications adapter card test failed**

FRU List:
FI00719

FI00718

6A590CC0 **Communications adapter card test failed**

FRU List:
FI00719

FI00718

6A595007 **Diagnostic wrap test completed; no errors detected**

6A595008 **Diagnostic wrap test completed; error was detected**

FRU List:
FI00719

DPAC

FI00718

6A59FFFF **User suspected communications problem.**

FRU List:
UNAUPPR

Chapter 8. 7xxx Reference Codes

7xxx Reference Codes

(7207) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - Yes: You have corrected the problem. This ends the procedure.
 - No: Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

72073202 Tape unit configuration error

Service Response:

Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

FRU List:
UH7CNFG

FI00871

72079020 Tape unit configuration error

Service Response:

Before exchanging any parts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

FRU List:
UH7CNFG

FI00871

PTFSRCH

72079100 Interface error detected by system or by tape unit

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:
FI00871

FI01112

FI00872

DEVTERM

72079101 Fibre Channel interface error detected

Service Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.

3. If there is a hub attached, verify that the hub is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

FRU List:

FCIOA

FCDEV

FCCABLE

72079102 Gateway device detected a SCSI interface error
Servicer Response:

Use the gateway device service documentation to analyze the problem.

FRU List:

FI00871

FCGATE

FI00872

DEVTERM

72079200 Tape unit is not responding
Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

72079201 Tape unit command timeout
Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

MH7TMED

72079202 Tape unit failed after Licensed Internal Code was loaded
Servicer Response:

If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

FRU List:

FI00871

FI01112

FI00872

DEVTERM

72079210 Illegal or unsupported tape unit response
FRU List:

FI00871

FI01112

PTFSRCH

72079211 Gateway device detected a bus protocol error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

FCIOA

FI00871

ANYFC

FCCABLE

FI00872

DEVTERM

72079300 Tape unit failure

FRU List:
FI00871

72079301 Tape device failure, redundancy lost**Servicer Response:**

The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

FRU List:
FI00871

72079302 Tape device failure or media error**Servicer Response:**

The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:
MH7TMED

FI00871

72079303 Gateway device failure**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:
FCGATE

72079310 Licensed Internal Code for the tape unit is not correct

FRU List:
PTFSRCH

FI00871

72079320 Tape device Licensed Internal Code failure

FRU List:
FI00130

FI00871

72079321 Gateway device Licensed Internal Code error**Servicer Response:**

Use the gateway device service documentation to analyze the problem.

FRU List:
FCCODE

72079350 Tape unit detected a read or write error on tape medium**Servicer Response:**

A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
MH7TMED

UH7CLN

FI00871

72079351 Tape with excessive error rate was mounted in tape device.**Servicer Response:**

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
MH7TMED

UH7CLN

FI00871

72079355 **The data format is incorrect; the tape cannot be read**

Service Response:

The tape unit has detected that the data format on the tape media is not supported.

Clean the tape unit and retry the operation.

If the operation continues to fail, use a different tape cartridge.

FRU List:
UH7USER

MH7TMED

UH7CLN

FI00871

72079500 **Licensed Internal Code error.**

Service Response:

If the system is operational, perform a dump of the I/O processor data. For more information, see *Performing an IOP dump using hardware service manager*.

FRU List:
PTFSRCH

72079800 **System successfully recovered from temporary I/O error**

Service Response:

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

72079801 **System successfully recovered from temporary I/O error**

Service Response:

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

72079802 **System successfully recovered from temporary I/O error**

Service Response:

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

72079803 **System successfully recovered from temporary I/O error**

Service Response:

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

72079804 **System successfully recovered from temporary I/O error**

Service Response:

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

72079810 **Problem analysis has determined a part should be replaced.**

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

72079899 **Problem analysis completed, the problem has been corrected.**

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:
UH7FIXD

72079900 **Licensed Internal Code for tape unit was not upgraded**

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:
UH7USER

72079901 **Tape performance statistics logged.**

Service Response:

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

72079902 **An IOP dump was initiated**

Service Response:

No action required.

7207FFF6 Tape volume statistics logged (no action required)

(7208) Tape drive reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Is the failing tape unit located in a type 9427 Tape Library device?
 - **Yes:** Go to (9427) Tape unit reference codes.
 - **No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

Note:

72080001 Tape unit failure

Service Response:

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

wrote the tape may be the cause of the problem. Perform TU-PIP2. When the system is available, perform the following:

- Verify the operation of the tape drive. Use the VFYTAP system command.

Note: When a tape is initialized, a new label is recorded at the beginning of the tape, and any data recorded previously is erased and overwritten. To initialize used tapes, use the INZTAP system command with “Check for active files” option of *NO. Use of the INZTAP “Clear” (security erase) option is not recommended. The 7208 Tape Drive performs a write operation to erase all of the tape; writing (erasing) a full-size tape takes up to 3.5 hours.

FRU List:

ML2TMED

46G2227

46G3934

42F7300

7208030B Tape unit detected a read error on the tape medium

Service Response:

Read (or write) errors may be caused by:

- Poor or damaged tape
- Dirty read/write heads
- Damaged data cartridges
- Using a data cartridge previously recorded in a format or density that is not correct
- Using the wrong data cartridge (for example, one in a different format or density from another set of data cartridges)

If the data on the tape was not written by i5/OS® the format or the density may not be correct. Get or make a new copy of the data cartridge. If you are performing a write or a save operation, initialize the tape. See the note below. If you are performing a read or a restore operation, the tape may be worn or the device that

72080311 Tape unit detected a read error on the tape medium

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

46G3934

42F7300

72080316 **Tape unit detected a read error on the tape medium**
Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

46G3934

42F7300

7208031C **The data format is incorrect; the tape cannot be read**
Service Response:

The tape format is not known or not compatible. The data cartridge may not have been recorded using i5/OS. Get another copy of the data cartridge recorded in a format and density given support by i5/OS.

FRU List:

ML2TMED

46G2227

72080336 **The data format is incorrect; the tape cannot be read**
Service Response:

The tape format is not known or not compatible. The data cartridge may not have been recorded using i5/OS. Get another copy of the data cartridge recorded in a format and density given support by i5/OS.

FRU List:

ML2TMED

46G2227

46G3934

42F7300

72080337 **Tape unit detected a read error on the tape medium**
Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

46G3934

42F7300

72080338 **Tape unit detected a read error on the tape medium**
Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

46G3934

42F7300

7208033D **Tape unit detected a read error on the tape medium**
Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

46G3934

42F7300

72080395 **Tape unit detected a write error on tape medium**
Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

72080396 **Tape unit detected a write error on tape medium**
Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

72080397 **Tape unit detected a write error on tape medium**

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

7208039D **Tape unit detected a write error on tape medium**

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

7208039E **Tape unit detected a write error on tape medium**

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

7208039F **Tape unit detected a write error on tape medium**

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

720803AE **Tape unit detected a read or write error on tape medium**

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

720803B0 **Tape unit detected a read or write error on tape medium**

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

720803B3 **Tape unit detected a write error on tape medium**

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

720803B4 **Tape unit detected a write error on tape medium**

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

720803B5 **Tape unit detected a read error on the tape medium**

Service Response:

Perform the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

72080417 **Tape unit failure**

Service Response:

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72080418 **Tape unit failure**

Service Response:

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72080419 Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP;
the amber light on the tape drive may be blinking.
Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72080458 Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP;
the amber light on the tape drive may be blinking.
Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

7208045A Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP;
the amber light on the tape drive may be blinking.
Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72080467 Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP;
the amber light on the tape drive may be blinking.
Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72080468 Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP;
the amber light on the tape drive may be blinking.
Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

7208046D Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP;
the amber light on the tape drive may be blinking.
Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72080498 Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP;
the amber light on the tape drive may be blinking.
Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72080499 Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP;
the amber light on the tape drive may be blinking.
Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

7208049A Tape unit failure**Servicer Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

7208049C Tape unit failure**Servicer Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804A1 Tape unit failure**Servicer Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804A2 Tape unit failure**Servicer Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804A3 Tape unit failure**Servicer Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804A4 Tape unit failure**Servicer Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804A5 Tape unit failure**Servicer Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804A6 Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804A7 Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804A8 Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804AB Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804AC Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804AD Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804FA Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804FC Tape unit failure**Service Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

720804FD Tape unit failure**Servicer Response:**

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72083002 I/O processor addressed the tape unit; no response**Servicer Response:**

The tape drive did not respond to commands from the IOP. Perform the following:

1. Ensure that the system interface cable is connected.
2. Ensure that power is on.

If the above items are correct, call your next level of support

FRU List:

46G2227

46G3934

FI00830

FI00141

46G2599

17G1500

42F7300

72083004 Tape unit failed after Licensed Internal Code was loaded**Servicer Response:**

The tape drive does not respond to IOP commands after new Licensed Internal Code was transferred to the tape drive. Perform TU-PIP4.

FRU List:

46G2227

72083005 Blank tape or BOT encountered**Servicer Response:**

The tape drive has found a blank tape or BOT. When using a new data cartridge, the tape must first be initialized. This error can also occur when reading a tape if that tape was removed from the tape drive before writing was complete. Also see the Action for reference code 030B.

FRU List:

ML2TMED

46G2227

AJEDA00

72083010 Illegal or unsupported tape unit response**Servicer Response:**

The tape drive returned a response to the IOP that is illegal or is not given support. Call your next level of support

FRU List:

46G2227

AJEDA00

72083100 Interface error detected by I/O processor or by tape unit**Servicer Response:**

The IOP or the device detected a permanent error on the interface to the system. Call your next level of support

FRU List:

46G2227

FI00141

FI00830

46G2599

42F7300

17G1500

46G3934

AJEDA00

72083110 Tape unit command timeout**Servicer Response:**

The tape drive did not complete a command sent by the IOP in the time allowed. Call your next level of support

FRU List:

46G2227

FI00141

FI00830

46G2599

42F7300

17G1500

46G3934

AJEDA00

**72084016 Licensed Internal Code for the tape unit
is not correct**
FRU List:

AJEDA00

**72084017 Licensed Internal Code for the tape unit
is not correct**
FRU List:

AJEDA00

**72089020 I/O processor detected a SCSI bus
configuration error**
Service Response:

Before exchanging any parts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support attachment of both tape and DASD devices at the same time.
- A device type or model that is not given support.

FRU List:

UL2CNFG

46G2227

FI00130

**72089100 Interface error detected by I/O processor
or by tape unit**
Service Response:

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device.

FRU List:

46G2227

FI00131

46G3934

FI00830

46G2599

17G1500

**72089200 I/O processor addressed the tape unit;
no response**
Service Response:

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable.
3. Ensure that the terminating plug is attached to the device.

FRU List:

46G2227

46G3934

FI00830

FI00131

46G2599

17G1500

42F7300

72089201 Tape unit command timeout
Service Response:

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable.
3. Ensure that the terminating plug is attached to the device.

FRU List:

46G2227

46G3934

FI00830

FI00131

46G2599

17G1500

42F7300

72089202 Tape unit failed after Licensed Internal Code was loaded
Service Response:

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable.
3. Ensure that the terminating plug is attached to the device.

FRU List:

46G2227

46G3934

FI00830

FI00131

46G2599

17G1500

42F7300

72089210 Illegal or unsupported tape unit response
FRU List:

46G2227

FI00130

FI00131

72089300 Tape unit failure
Service Response:

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72089301 Tape device failure, redundancy lost
Service Response:

The tape device detected a hardware failure that does not prevent the tape unit from completed the current operation. Refer to the Tape unit service information to determine the failing item.

FRU List:

46G2227

ML2TMED

46G3934

42F7300

72089302 Tape device failure or media error
Service Response:

The tape unit detected a failure that may be caused by a hardware failure or a media error. Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:

ML2TMED

46G2227

46G3934

42F7300

72089310 Licensed Internal Code for the tape unit is not correct
FRU List:

46G2227

FI00130

72089320 Tape device Licensed Internal Code failure
FRU List:

FI00130

46G2227

72089350 Tape unit detected a read or write error on tape medium
Service Response:

A permanent read or write error occurred. Clean the tape unit and retry the operation. If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:
ML2TMED

46G2227

46G3934

42F7300

72089351 **Tape with excessive error rate was mounted in tape device.**

Service Response:

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:
ML2TMED

UL2CLN

46G2227

72089355 **The data format is incorrect; the tape cannot be read**

Service Response:

The tape unit has detected that the data format on the tape media is not supported. Clean the tape unit and retry the operation. If the operation continues to fail, use a different tape cartridge.

FRU List:
UL2USR1

ML2TMED

UL2CLN

46G2227

72089500 **I/O processor Licensed Internal Code error**

Service Response:

If the system is operational, take a dump of the I/O processor data. For more information, see *Service Functions* located in your host system's service guide, or contact your next level of support for assistance

FRU List:
FI00130

72089800 **I/O processor successfully recovered from temporary error**

Service Response:

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

72089801 **I/O processor successfully recovered from temporary error**

Service Response:

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

72089802 **I/O processor successfully recovered from temporary error**

Service Response:

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

72089803 **I/O processor successfully recovered from temporary error**

Service Response:

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

72089810 **Problem analysis has determined a part should be replaced.**

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information only)

72089899 **Problem analysis completed, the problem has been corrected.**

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:
UL2FIXD

72089900 **Licensed Internal Code for tape unit was not upgraded**

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape drive was not completed. The tape drive will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape drive. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:
UL2WAIT

7208FF09 Licensed Internal Code for tape unit was not upgraded
Servicer Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape drive was not completed. The tape drive will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape drive. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:
UL2WAIT

7208FF4D I/O processor successfully recovered from temporary error
Servicer Response:

No action required. This reference code is logged for information only. When the system is available, display the operator messages, find message CPI946B, and press F14 to run online problem analysis to see if the error threshold has been exceeded.

FRU List:
46G2227

FI00141

FI00830

46G2599

46G3934

17G1500

42F7300

AJEDA00

7208FF5D I/O processor successfully recovered from temporary error
Servicer Response:

No action required. This reference code is logged for information only. When the system is available, display the operator messages, find message CPI946B, and press F14 to run online problem analysis to see if the error threshold has been exceeded.

FRU List:
46G2227

46G3934

FI00830

FI00141

46G2599

17G1500

42F7300

7208FFF6 Tape volume statistics logged (no action required)
Servicer Response:

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

7208FFF8 Asynchronous device attached; synchronous device expected
Servicer Response:

The attached device is operational and working in the asynchronous mode of data transfer. The IBM tape unit uses the synchronous mode of data transfer; if the attached device is an IBM tape unit, exchange the tape unit.

FRU List:
46G2227

7208FFFE Tape unit detected a read error on the tape medium
Servicer Response:

Perform the Action for reference code 030B.

FRU List:
ML2TMED

46G2227

46G3934

42F7300

7208FFFF Tape unit detected a write error on tape medium
Servicer Response:

Perform the Action for reference code 030B.

FRU List:
ML2TMED

46G2227

Chapter 9. 9xxx Reference Codes

9xxx Reference Codes

(9427) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

94270001	Tape unit failure

Service Response:

Refer to the 9427 8mm Tape Cartridge Library Service Guide.

942703xx	Tape unit detected an error on the tape medium

Service Response:

Read (or write) errors may be caused by:

- Poor or damaged tape
- Dirty read/write heads
- Damaged data cartridges
- Using a data cartridge previously recorded in a format or density that is not correct
- Using the wrong data cartridge (for example, one in a different format or density from another set of data cartridges)

Do the following:

1. Clean the tape unit and retry the operation.
2. If cleaning the tape unit does not correct the problem, exchange the tape media.

942704xx	Tape unit failure

Service Response:

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Refer to the 9427 8mm Tape Cartridge Library Service Guide.

94273xxx	Device or interface error.

Service Response:

Refer to the 9427 8mm Tape Cartridge Library Service Guide.

94274016	Licensed Internal Code for the tape unit is not correct

FRU List:

AJEDA00

94274017	Licensed Internal Code for the tape unit is not correct

FRU List:

AJEDA00

94279020	I/O processor detected a SCSI bus configuration error

Service Response:

Before exchanging any parts, verify that the following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support attachment of both tape and DASD devices at the same time.

- A device type or model that is not given support.

FRU List:

ULYCNFG 86G9251

FI00130

86G9254

94279100 Interface error detected by I/O processor or by tape unit
Service Response:

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
3. Ensure that a terminating plug is attached to the device.

FRU List:

86G9251

FI00131

86G9254

EXTSCSI

86G9255 86G9274 17G9134

FI00130

94279200 I/O processor addressed the tape unit; no response
Service Response:

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable.
3. Ensure that the terminating plug is attached to the device.

FRU List:

86G9251 86G9274 86G9254

FI00131

EXTSCSI

17G9134 87G1531 86G9255

94279201 Tape unit command timeout
Service Response:

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable.
3. Ensure that the terminating plug is attached to the device.

FRU List:

86G9251

FI00131

86G9254

EXTSCSI

17G9134 86G9255 86G9274

FI00130

94279202 Tape unit failed after Licensed Internal Code was loaded
Service Response:

Before exchanging any parts, do the following:

1. Ensure that the device is powered on.
2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable.
3. Ensure that the terminating plug is attached to the device.

FRU List:

86G9251 86G9274 86G9254

94279210 Illegal or unsupported tape unit response
FRU List:

86G9251

FI00130

FI00131

94279300 Tape unit failure
Service Response:

The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.

FRU List:

86G9251 LIBDEV MLYTMED 86G9274 86G9255

94279301 Tape device failure, redundancy lost**Service Response:**

The tape device detected a hardware failure that does not prevent the tape unit from completing the current operation. Refer to the Tape unit service information to determine the failing item.

FRU List:

86G9251 LIBDEV MLYTMED 86G9274 86G9255

94279302 Tape device failure or media error**Service Response:**

The tape unit detected a failure that may be caused by a hardware failure or a media error. Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

FRU List:

MLYTMED 86G9251

94279310 Licensed Internal Code for the tape unit is not correct**FRU List:**

86G9251

FI00130

94279320 Tape device Licensed Internal Code failure**FRU List:**

FI00130

86G9251

94279350 Tape unit detected a read or write error on tape medium**Service Response:**

A permanent read or write error occurred. Clean the tape unit and retry the operation. If cleaning the tape unit does not correct the problem, exchange the tape media.

FRU List:

MLYTMED 86G9251

94279351 Tape with excessive error rate was mounted in tape device.**Service Response:**

The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

FRU List:

MLYTMED ULYCLN 86G9251

94279355 The data format is incorrect; the tape cannot be read**Service Response:**

The tape unit has detected that the data format on the tape media is not supported. Clean the tape unit and retry the operation. If the operation continues to fail, use a different tape cartridge.

FRU List:

ULYUSR1 MLYTMED ULYCLN 86G9251

94279500 I/O processor Licensed Internal Code error**Service Response:**

If the system is operational, perform a dump of the I/O processor data.

FRU List:

FI00130

94279600 Equipment Check Failure on Library Device.**Service Response:**

See library device service information to resolve the error.

FRU List:

LIBDEV

94279800 I/O processor successfully recovered from temporary error**Service Response:**

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

94279801 I/O processor successfully recovered from temporary error**Service Response:**

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

94279802 I/O processor successfully recovered from temporary error**Service Response:**

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

94279803 I/O processor successfully recovered from temporary error**Service Response:**

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

94279810 **Problem analysis has determined a part should be replaced.**

Service Response:

This reference code is used for ending Online Problem Analysis with a list of failing items. (Information only)

94279899 **Problem analysis completed, the problem has been corrected.**

Service Response:

This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

FRU List:

ULYFIXD

94279900 **Licensed Internal Code for tape unit was not upgraded**

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape drive was not completed. The tape drive will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TU-PIP4 to reset the IOP and the tape drive. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

ULYWAIT

9427FF09 **Licensed Internal Code for tape unit was not upgraded**

Service Response:

The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape drive was not completed. The tape drive will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- See the system service documentation to reset the IOP and the tape drive. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

FRU List:

ULYWAIT

9427FF4D **I/O processor successfully recovered from temporary error**

Service Response:

No action required. This reference code is logged for information only. When the system is available, display the operator messages, find message CPI946B, and

press F14 to run online problem analysis to see if the error threshold has been exceeded.

FRU List:

86G9251

FI00141

EXTSCSI

17G9134 86G9253 86G9255 AJSLC01

9427FF5D **I/O processor successfully recovered from temporary error**

Service Response:

No action required. This reference code is logged for information only. When the system is available, display the operator messages, find message CPI946B, and press F14 to run online problem analysis to see if the error threshold has been exceeded.

FRU List:

86G9251 86G9253

EXTSCSI

FI00141

17G9134 86G9255

9427FFF6 **Tape volume statistics logged (no action required)**

Service Response:

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

9427FFF8 **Asynchronous device attached; synchronous device expected**

Service Response:

The attached device is operational and working in the asynchronous mode of data transfer. The IBM tape unit uses the synchronous mode of data transfer; if the attached device is an IBM tape unit, exchange the tape unit.

FRU List:

86G9251

9427FFFE **Tape unit detected a read error on the tape medium**

Service Response:

Perform the Action for reference code 03xx.

FRU List:

MLYTMED 86G9251 86G9253

9427FFFF **Tape unit detected a write error on tape medium**

Servicer Response:

Perform the Action for reference code 03xx.

FRU List:

MLYTMED 86G9251

Chapter 10. Axxx Reference Codes

Axxx Reference Codes

(A1xx) Service processor reference (attention) codes

An A1xx system reference (attention) code is an attention code posted by the service processor.

An A1XX SRC offers information about a platform or service processor dump, confirms a control panel function request, or indicates an issue with a service processor wake-on-LAN setting.

The A1xx table uses the following format:

- The reference code, contains numbers that identify a particular action your server performs during initialization of firmware.
- The description offers a brief description about this SRC. It may also contain instructions for continuing the problem analysis.
- The FRU List offers a link to instructions or service actions for recovering from a hang on an attention code. Click the FRU List only when you experience a hang condition on an attention code. For example, a hang condition occurs when your server performs a requested action but the SRC in the control panel display does not change for several minutes and the service processor appears to be hung.

A1003000	Platform dump was successful

FRU List:
FSPSPD1

A1003001	Reserved (for platform dump)

FRU List:
FSPSPD1

A1003022	Confirm partition dump (control (operator) panel function 22)

Service Response:

The control panel displays this attention code after you request a partition dump (panel function 22). When you see this code, scroll to function 22 again on the panel and press **Enter** to perform the partition dump. Perform isolation procedure FSPSPD1.

A1003042	Confirm platform dump (control panel function 42)

Service Response:

The control panel displays this attention code after you request a platform dump (panel function 42). When you see this code, scroll to function 42 again on the panel and press **Enter** to perform the platform dump. Perform isolation procedure FSPSPD1.

A1003043	Confirm service processor dump (control panel function 43)

Service Response:

The control panel displays this attention code after a service processor dump (panel function 43) is requested. When you see this code, scroll to function 43 again on the panel and press **Enter** to perform the service processor dump. Perform isolation procedure FSPSPD1.

A1008003	Confirm restart IPL (control (operator) panel function 03).

Service Response:

The control panel displays this attention code after a restart IPL (panel function 03) is requested. When this SRC is displayed, scroll to function 03 again on the panel and press enter to perform the restart IPL. Perform isolation procedure FSPSPD1.

A1008008	Confirm fast power-off (control panel function 08)

Service Response:

This attention code is displayed on the control panel after you request a fast power-off (panel function 08). When you see this code, scroll to function 08 again on the panel and press **Enter** to perform the fast power-off. Perform isolation procedure FSPSPD1.

A1008009	Beginning emergency power off (EPO) countdown.

Service Response:

Perform isolation procedure FSPSPD1.

A100800A Proceeding with EPO. This SRC displays after the countdown has completed successfully.

Service Response:

Perform isolation procedure FSPSPD1.

A181D000 The hypervisor did not respond to a **ROLE** or **FAILOVER** message.

Service Response:

Perform isolation procedure FSPSPD1.

A181D001 The hypervisor did not post an Xdown interrupt when a reset/reload occurred.

Service Response:

Perform isolation procedure FSPSPD1.

A1A3C100 Invalid operational mode for remote power on (wake onLAN)

Service Response:

Check the service processor settings for remote power on.

(A2xx) Logical partition reference codes

A2xx Logical partition reference codes

When the server posts these SRCs, you can find them in the Serviceable Event View or the view that you use to see informational logs (such as the Product Activity Log or ASM).

1. Characters 3 and 4 of word 1 are the partition ID of the logical partition with the problem.
2. If the SRC begins with A2xx, no service action is required.

A2xx1132 A problem occurred during the IPL of a partition. No service action required.

A2xx1150 A problem occurred during the IPL of a partition. No service action required.

A2xx1225 A problem occurred during the IPL of a partition. No service action required.

A2xx1230 A problem occurred during the IPL of a partition. No service action required.

A2xx1260 A problem occurred during the IPL of a partition. No service action required.

A2xx1265 A problem occurred during the IPL of a partition. No service action required.

A2xx1266 A problem occurred during the IPL of a partition. No service action required.

A2xx1280 A problem occurred during a partition Main Storage Dump. No service action required.

A2xx1281 A partition memory error occurred. No service action required.

A2xx1310 A problem occurred during the IPL of a partition. No service action required.

A2xx1320 A problem occurred during the IPL of a partition. No service action required.

A2xx1321 A problem occurred during the IPL of a partition. No service action required.

A2xx1322 A problem occurred during the IPL of a partition. No service action required.

A2xx2048 A problem occurred during a partition Main Storage Dump. No service action required.

A2xx2058 A problem occurred during a partition Main Storage Dump. No service action required.

A2xx2250 A problem occurred during the IPL of a partition. No service action required.

A2xx2260 A problem occurred during the IPL of a partition. No service action required.

A2xx2300 A problem occurred during the IPL of a partition. No service action required.

A2xx2310 A problem occurred during the IPL of a partition. No service action required.

A2xx2320 A problem occurred during the IPL of a partition. No service action required.

A2xx2425	A problem occurred during the IPL of a partition. No service action required.
A2xx2426	A problem occurred during the IPL of a partition. No service action required.
A2xx2475	A problem occurred during the IPL of a partition. No service action required.
A2xx2485	A problem occurred during the IPL of a partition. No service action required.
A2xx3081	A problem occurred during the IPL of a partition. No service action required.
A2xx3084	A problem occurred during the IPL of a partition. No service action required.
A2xx3088	System log entry only, no service action required.
A2xx308C	A problem occurred during the IPL of a partition. No service action required.
A2xx3110	A problem occurred during the IPL of a partition. No service action required.
A2xx3113	A problem occurred during the IPL of a partition. No service action required.
A2xx3114	A problem occurred during the IPL of a partition. No service action required.
A2xx3120	System log entry only, no service action required.
A2xx3123	System log entry only, no service action required.
A2xx3125	A problem occurred during the IPL of a partition. No service action required.
A2xx3128	A problem occurred during the IPL of a partition. No service action required.
A2xx3130	A problem occurred during the IPL of a partition. No service action required.

A2xx3135	A problem occurred during the IPL of a partition. No service action required.
A2xx3140	A problem occurred during the IPL of a partition. No service action required.
A2xx3141	System log entry only, no service action required.
A2xx3142	System log entry only, no service action required.
A2xx3143	System log entry only, no service action required.
A2xx3144	System log entry only, no service action required.
A2xx3200	System log entry only, no service action required.
A2xx4158	System log entry only, no service action required.
A2xx5106	A problem occurred during the IPL of a partition. No service action required.
A2xx5109	A problem occurred during the IPL of a partition. No service action required.
A2xx5114	A problem occurred during the IPL of a partition. No service action required.
A2xx5115	A problem occurred during the IPL of a partition. No service action required.
A2xx5117	A problem occurred during the IPL of a partition. No service action required.
A2xx5121	A problem occurred during the IPL of a partition. No service action required.
A2xx5122	System log entry only, no service action required.
A2xx5123	System log entry only, no service action required.

A2xx5135 • A2xx8117

A2xx5135	A problem occurred during the IPL of a partition. No service action required.	A2xx6025	A problem occurred during the IPL of a partition. No service action required.
A2xx5137	A problem occurred during the IPL of a partition. No service action required.	A2xx6027	A problem occurred during the IPL of a partition. No service action required.
A2xx5145	A problem occurred during the IPL of a partition. No service action required.	A2xx6110	A problem occurred during the IPL of a partition. No service action required.
A2xx5148	A problem occurred during the IPL of a partition. No service action required.	A2xx690A	A problem occurred during the IPL of a partition. No service action required.
A2xx5149	A problem occurred during the IPL of a partition. No service action required.	A2xx7200	System log entry only, no service action required.
A2xx514A	A problem occurred during a partition Firmware Assisted Dump. No service action required.	A2xx8080	System log entry only, no service action required.
A2xx542A	A problem occurred during a partition Firmware Assisted Dump. No service action required.	A2xx8081	A problem occurred during the IPL of a partition. No service action required.
A2xx542B	A problem occurred during a partition Firmware Assisted Dump. No service action required.	A2xx8105	A problem occurred during the IPL of a partition. No service action required.
A2xx543A	A problem occurred during a partition Firmware Assisted Dump. No service action required.	A2xx8107	A problem occurred during the IPL of a partition. No service action required.
A2xx543B	A problem occurred during a partition Firmware Assisted Dump. No service action required.	A2xx8109	A problem occurred during the IPL of a partition. No service action required.
A2xx543C	System log entry only, no service action required.	A2xx8111	A problem occurred during the IPL of a partition. No service action required.
A2xx543D	A problem occurred during a partition Firmware Assisted Dump. No service action required.	A2xx8112	A problem occurred during the IPL of a partition. No service action required.
A2xx6006	A problem occurred during the IPL of a partition. No service action required.	A2xx8113	A problem occurred during the IPL of a partition. No service action required.
A2xx6012	A problem occurred during the IPL of a partition. No service action required.	A2xx8114	A problem occurred during the IPL of a partition. No service action required.
A2xx6015	A problem occurred during the IPL of a partition. No service action required.	A2xx8115	A problem occurred during the IPL of a partition. No service action required.
		A2xx8117	A problem occurred during the IPL of a partition. No service action required.

A2xx8121	A problem occurred during the IPL of a partition. No service action required.
A2xx8123	A problem occurred during the IPL of a partition. No service action required.
A2xx8125	A problem occurred during the IPL of a partition. No service action required.
A2xx8127	A problem occurred during the IPL of a partition. No service action required.
A2xx8129	A problem occurred during the IPL of a partition. No service action required.
A2xx813A	A problem occurred during the IPL of a partition. No service action required.
A2xx8140	System log entry only, no service action required.
A2xx8141	System log entry only, no service action required.
A2xx8142	System log entry only, no service action required.
A2xx8143	System log entry only, no service action required.
A2xx8144	System log entry only, no service action required.
A2xx8145	System log entry only, no service action required.
A2xx8150	Platform LIC detected an error. No service action required.
A2xx8151	Platform LIC detected an error. No service action required.
A2xx8152	No active system processors. No service action required.
A2xxA100	A problem occurred after a partition ended abnormally. No service action required.

A2xxA101	A problem occurred after a partition ended abnormally. No service action required.
A2xxB07B	System log entry only, no service action required.
A2xxB215	A problem occurred after a partition ended abnormally. No service action required.
A2xxC1F0	A problem occurred during a power off a partition. No service action required.
A2xxD150	A problem occurred after a partition ended abnormally. No service action required.
A2xxE0AA	A problem occurred during the IPL of a partition. No service action required.
A2xxF001	A problem occurred during the IPL of a partition. No service action required.
A2xxF003	A problem occurred during the IPL of a partition. No service action required.
A2xxF004	A system request to power off a partition failed. No service action required.
A2xxF005	A system request to power off a partition failed. No service action required.
A2xxF006	A problem occurred during the IPL of a partition. No service action required.
A2xxF007	A problem occurred during a power off a partition. No service action required.
A2xxF008	A problem occurred during the IPL of a partition. No service action required.
A2xxF009	System log entry only, no service action required.
A2xxF00A	System log entry only, no service action required.

A2xxF00B System log entry only, no service action required.

A2xxF00C System log entry only, no service action required.

(A6xx) Licensed Internal Code reference codes

A6xx Licensed Internal Code reference codes.

Perform the following:

1. Find the SRC in the following list.
2. Perform the actions in the Servicer Response field.

In all cases, after you determine the FRU, go to the locations table for the system or tower you are working on to determine the location, and to the removal and replacement procedure for the FRU.

A6xx0000 Operating system status code

Servicer Response:

This reference code is for information only. It is shown in the Product activity log as a side effect of a condition that was detected by LIC.

Normally, no actions should be taken as a result of information reference codes. However, to isolate the root cause, use these suggestions:

1. Examine the date and time of the informational reference code.
2. Determine if any other reference codes have been logged at or before the same date and time.
3. Begin the service approach based on these other logged errors.

A6xx0102 A machine check occurred during IPL

Servicer Response:

Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9 before attempting to IPL again and report the problem to your Software Service Provider.

A6xx0103 Main storage dump must be copied for service.

Servicer Response:

Perform LICIP01.

A6xx0104 Terminate Immediate reference code is bad

Servicer Response:

Perform LICIP08.

FRU List:

AJDG301

A6xx0105 More than one request to terminate the system was issued

Servicer Response:

Perform LICIP08.

FRU List:

AJDG301

A6xx0106 Terminate Immediate data is not valid

Servicer Response:

Perform LICIP08.

FRU List:

AJDG301

A6xx0107 Main storage dump must be copied for service.

Servicer Response:

The server detected an unrecoverable machine check condition. Collect all the words of the SRC and the main store dump and send to your system manufacturer for analysis.

A6xx0109 An unrecoverable memory error occurred.

Servicer Response:

Re-IPL the partition that terminated. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View that indicate the replacement of memory in the failing item list.

If there are no B1xxxxxx SRCs in the Serviceable Event View that indicate a memory problem, perform a slow boot in order to run diagnostics on the memory. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View.

A6xx0200 System firmware has experienced a low storage condition. No immediate action is necessary.

Servicer Response:

Continue running the system normally. At the earliest convenient time work with your service provider to perform a platform dump and re-IPL the system.

FRU List:

SVCD0CS

A6xx0202 Unrecoverable read error**Servicer Response:**

Restore the Licensed Internal Code using **Licensed Internal Code Install and Restore** in *Service Functions* located in your host system's service guide, or contact your next level of support for assistance.

A6xx0210 The system ASP has run out of disk storage**Servicer Response:**

The outof storage condition in the system ASP can be caused by an allocation failure in some other system software. This could be a looping condition that continues to allocate storage. Contact your service representative for assistance with the Main Storage Dump.

A6xx0244 Contact was lost with the device indicated**Servicer Response:**

Do not power off the system. Perform LICIP13.

FRU List:

FI00580

FI00500

FI00302

FI00301

AJDG301

A6xx0255 Contact was lost with the device indicated**Servicer Response:**

Do not power off the system. Perform LICIP13.

FRU List:

FI00580

FI00500

FI00302

FI00301

AJDG301

A6xx0266 Contact was lost with the device indicated**Servicer Response:**

Do not power off the system. Perform LICIP13.

FRU List:

FI00580

FI00500

FI00302

FI00301

AJDG301

A6xx0277 A compression disk unit cannot complete an operation.**Servicer Response:**

Note: Do not power off the system when performing this procedure.
Look at the 4 leftmost characters of the Data display for word 7. These four characters indicate the type of problem that exists and the recovery action to perform.

If these characters are 8402 or 2002, the compression disk unit is temporarily full of data. The command to the compression disk is being held. When the storage subsystem controller has created sufficient space on the compression disk unit to contain the data, the command which is being held will be released and the system will resume normal processing. If the system does not resume normal processing within 20 minutes, contact your next level of support.

If these characters are 8400 or 2000, the compression disk unit is full of data. The command to the compression disk is being held. The customer should perform the recovery actions specified in "Disk Unit Full Considerations" in the Backup and Recovery Guide, SC41-5304.

A6xx0302 Recursion in exception handler.**Servicer Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0304 Component specific exception handler return code not valid. Perform LICIP08.**FRU List:**

AJDG301

A6xx0305 Exception while storage management lock is held.**Servicer Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0307 LIC exception code detected a problem**Service Response:**

Component Specific Exception Handler recursion is detected in an OS/400® process. Perform LICIP08.

FRU List:

AJDG301

A6xx0308 LIC exception code detected a problem**Service Response:**

Component SpecificException Handler recursion is detected in an OS/400 process. Perform LICIP08.

FRU List:

AJDG301

A6xx0317 Traceback for code not found**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0323 LIC exception code detected a problem**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0324 LIC exception code detected a problem**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0325 LIC exception code detected a problem**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0326 LIC exception code detected a problem**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0327 LIC exception code detected a problem**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0328 LIC exception code detected a problem**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0329 LIC exception code detected a problem**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0333 A branch to a bad address was attempted**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0334 Exception Handler could not be removed**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0335 Code resumed to not valid address following exception**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0336 LIC exception code detected a problem.**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0401 A machine check occurred during IPL**Service Response:**

Perform LICIP08.

FRU List:

AJDG301

A6xx0402 **A machine check occurred during authority initialization**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0403 **Unhandled exception during IPL or install**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0405 **Unhandled exception in authority recovery**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0406 **Unhandled exception in data base recovery**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0407 **Unhandled exception in data base initialization**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0408 **Unhandled exception in journal recovery**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0409 **Unhandled exception in journal synchronization**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0410 **Unhandled exception in journal clean up**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0411 **Unhandled exception in commit recovery**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0412 **Unhandled exception in commit initialization**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0413 **Rebuild of recovery object index failed**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0414 **Install of operating system failed on read from media**

Servicer Response:
Perform LICIP08.

FRU List:
FI00300

A6xx0415 **Create user profile failed**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0417 **Initiating the initial process failed**

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0418 The information loaded from the install media is notvalid. Perform LICIP08.

FRU List:
AJDG301

A6xx0419 The information loaded from the install media is notvalid. Perform LICIP08.

FRU List:
AJDG301

A6xx0420 The information loaded from the install media is notvalid. Perform LICIP08.

FRU List:
AJDG301

A6xx0421 Bad return code creating a queue or message

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0422 The Load/Dump command failed

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0439 Opening the IPCF connection failed

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0440 Termination code is not valid

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0441 Power off system command failed

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0443 Programmed IPL command failure

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0446 Error during machine termination

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0447 Failure to reach MI boundary

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0449 Exception in MI boundary manager

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0506 Attempt to destroy a task with critical flag on

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0607 Maximum stack size exceeded in process or task

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0620 Event management index is not usable

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx0650 Resource management segment could not be created oextended. A main store dump was initiated.

Servicer Response:
A main store dump was initiated.

Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9.

Perform a system IPL and collect the Product activity log and main store dump and provide them along with the recorded SRC information to IBM Service Support.

The problem may also be that there is not enough auxiliary storage.

FRU List:
AJDG301

A6xx0801 Invalid LID directory detected

Servicer Response:

During system IPL, the LIDMgr detected an I/O failure or media failure while trying to read the LID directory. Perform LICIP08.

FRU List:
FI00070

FI00300

AJDG301

A6xx0802 LID directory unusable

Servicer Response:

During system IPL, the LIDMgr detected that the LID directory and associated load source is not usable.

Reinstall the Licensed Internal Code by using Utilities to install and restore Licensed Internal Code

.

For more information, contact IBM Service Support.

FRU List:
AJDG301

A6xx0901 The LinkLoader has found its bad flag ON

Servicer Response:

This reference code is usually the result of a system termination while the LinkLoader is performing its work. Reinstall the Licensed Internal Code by using Utilities to install and restore Licensed Internal Code.

A6xx0902 Unable to perform programmed IPL

Servicer Response:

The LinkLoader was not successful in performing a programmed IPL. Perform a system IPL. If the problem persists, examine the main storage dump and determine the reason for the failure of the programmed IPL.

A6xx0903 The LinkLoader was not able to allocate a segment

Servicer Response:

Perform the D mode IPL again. If the problem persists, there might be a memory problem. Contact your next level of support.

A6xx0904 The LinkLoader was not able to load a critical LID

Servicer Response:

Perform the D mode IPL again. If the problem persists, contact your next level of support.

A6xx1001 Enqueuing a task to the TDQ which is already enqueued on TDQ. Perform LICIP08.

FRU List:
AJDG301

A6xx1103 MISR not readable; must be readable for Normal Mode install

Servicer Response:

MISR is not readable. Perform a manual install to reinitialize the system.

A6xx1104 Failure reading media or not install media

Servicer Response:

Determine that correct install media is loaded. If correct install media is installed, media could be corrupt. Obtain another copy of the install media and reattempt the install. If the install still fails, contact your service representative.

A6xx1201 Critical database segment could not be created

Servicer Response:

Perform LICIP08.

FRU List:
AJDG301

A6xx1204 Error in constraint enforcement

Servicer Response:

Perform LICIP08.

FRU List:
AJDG301

A6xx1210 Object not found in the in-use table

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx1215 Error in critical code sequence

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx1219 A back leveled driver has been detected

Servicer Response:
Perform LICIP08.

FRU List:
AJDG301

A6xx1604 Not able to create APPN task

Servicer Response:
An error occurred during task creation which requires a power off of the system. Perform LICIP08.

FRU List:
AJDG301

A6xx1724 An attempt to create a segment failed

Servicer Response:
The create could fail for two reasons:

- A code problem. Perform LICIP08.
- No free auxiliary storage on the system. Add additional DASD if the create failed because no auxiliary storage was available.

FRU List:
AJDG301

A6xx1730 An IPL is needed to restore system performance

Servicer Response:
Licensed Internal Code has detected a condition that is impacting system performance. System operation can continue, but system performance may be noticeably reduced until the next IPL.

Look at the Product Activity Log entry, and find the value at offset x'000180'. If the value equals x'00000122', the error was caused by too much processor memory being installed.

For more information, contact IBM Service Support.

FRU List:
GG4PL01

A6xx3000 Logical partition service function Main Storage Dump.

Servicer Response:
Copy the current main storage dump to media. For more information on how to copy a Main Storage Dump, refer to *Service Functions* located in your host system's service guide, (see "Copying a Main Storage Dump" under "Working with Storage Dumps"), or contact your next level of support for assistance.

FRU List:
AJDG301

A6xx4401 Missing DASD units.

Servicer Response:
Copy the current main storage dump to media. For more information on how to perform a Main Storage Dump, refer to *Service Functions* located in your host system's service guide, (see "Copying a Main Storage Dump" under "Working with Storage Dumps"), or contact your next level of support for assistance.

A6xx4402 Missing DASD units.

Servicer Response:
Copy the current main storage dump to media. Then exit the Main Storage Dump Manager. For more information on how to perform a Main Storage Dump, refer to *Service Functions* located in your host system's service guide, (see "Copying a Main Storage Dump" under "Working with Storage Dumps"), or contact your next level of support for assistance.

A6xx4403 Storage Management failed to reach full paging.

Servicer Response:
Copy the current main storage dump to media.

For more information on how to perform a Main Storage Dump, refer to *Service Functions* located in your host system's service guide, (see "Copying a Main Storage Dump" under "Working with Storage Dumps"), or contact your next level of support for assistance.

A6xx4404 Auto copy failed or not attempted.

Servicer Response:
Copy the current main storage dump. If copying to system ASP, existing copies may need to be deleted or renamed. Then exit the Main Storage Dump Manager.

For more information on how to perform a Main Storage Dump, refer to *Service Functions* located in your host system's service guide, (see "Copying a Main Storage Dump" under "Working with Storage Dumps"), or contact your next level of support for assistance.

A6xx4405 **System ASP threshold exceeded after auto copy done.**

Servicer Response:

Delete other system ASP copies or exit the Main Storage Dump Manager and then from DST copy the Auto Copy to media and then delete the Auto Copy in system ASP.

A6xx4420 **MSD Manager not configured to save dump information**

Servicer Response:

The platform produced dump data, but the Main Storage Dump (MSD) Manager was not configured to automatically copy the dump to an Auxiliary Storage Pool (ASP). The dump will be lost if the system power is lost. Use MSD Manager to manually copy the current platform dump to media or an ASP.

A6xx4421 **Insufficient space in the ASP to store a platform dump**

Servicer Response:

The platform produced dump data, and the Main Storage Dump (MSD) Manager was configured to automatically copy the dump to an Auxiliary Storage Pool (ASP), but there was not sufficient free space available in the ASP. The dump will be lost if the system power is lost. Manually copy the current platform dump from the platform by performing one of the following:

- Make room in the designated ASP and then use the MSD Manager to copy the current platform dump to ASP.
- Use the MSD Manager to delete other dump copies, then copy the current platform dump to ASP.
- Use the MSD Manager to copy the current platform dump to a different ASP.
- Use the MSD Manager to copy the current platform dump to media.

A6xx4422 **A platform dump is saved in MSD Manager**

Servicer Response:

The platform produced dump data. The dump data was copied to the Main Storage Dump (MSD) Manager.

FRU List:
PLDUMP

A6xx4700 **Processor On Demand error detected.**

Servicer Response:

Processor onDemand Data Block key is not valid. Replace the Processor Capacity card.

FRU List:
CTLPNCD

A6xx4701 **Processor On Demand error detected.**

Servicer Response:

Processor OnDemand Data Block contains data that does not match the expected data. Contact your service provider.

FRU List:
AJDG301

A6xx4703 **Processor On Demand error detected.**

Servicer Response:

Processor OnDemand Serialization has failed during IPL. Contact your service provider.

FRU List:
AJDG301

A6xx4710 **Processor On Demand error detected.**

Servicer Response:

SPCN communication failure during Processor On Demand. Look in the Product Activity Log for other SPCN errors and perform the actions indicated for those errors.

FRU List:
SPNLCD

A6xx4712 **Processor On Demand error detected.**

Servicer Response:

Correct any Processor Capacity card or SPCN failures.

FRU List:
CTLPNCD

A6xx4713 **Incorrect Processor Capacity Card installed.**

Servicer Response:

The Processor Capacity Card is the failing item since it has been swapped in from a different system.

Put the Processor Capacity Card back in the system it came from, and reinstall this system's original Processor Capacity Card.

FRU List:
CTLPNCD

A6xx4714 **The CUoD data is not present. A problem may exist.**

Servicer Response:

The Processor Capacity Card was changed and there may be a problem.

If the system did have any activated standby processors before the Processor Capacity Card was

A6xx4715 • A6xx5003

replaced, then new processor on demand activation codes must be obtained to restore the previous activations.

Contact your service provider.

A6xx4715 Processor On Demand error detected.

Service Response:

Correct any Processor Capacity card or SPCN failures.

FRU List:

CTLPNCD

A6xx4730 Processor On Demand error detected.

Service Response:

Processor OnDemand standby processors are in use. Contact your service provider.

FRU List:

AJDG301

A6xx4731 Processor On Demand error detected.

Service Response:

The ProcessorOn Demand Trial Activation period is not valid. Contact your next level of support.

FRU List:

AJDG301

A6xx4733 Processor On Demand error detected.

Service Response:

Contact your service provider.

FRU List:

AJDG301

A6xx4740 Processor On Demand error detected.

Service Response:

The ProcessorOn Demand Activation code just entered is not valid. Contact your next level of support.

FRU List:

AJDG301

A6xx4741 Processor On Demand error detected.

Service Response:

An invalid ProcessorOn Demand Activation code has been entered more than 5 consecutive times. Contact your service provider.

FRU List:

AJDG301

A6xx4745 Processor Capacity card replaced on activated POD system.

Service Response:

Contact IBM Support to order a replacement Processor On Demand activation code.

A6xx4747 1 hour left in POD 14 day Trial Activation Period.

Service Response:

If a new activation code was purchased, it should be entered now. Otherwise, the system will revert back to its previous activation state at the end of the Trial Activation Period.

A6xx5001 DST received no response from a workstation controller

Service Response:

The workstation I/O processor for the system or partition console did not respond.

Perform RTRIP01 to determine which Isolation procedure to perform.

FRU List:

FI00380

AJDG301

A6xx5002 DST problem attempting to use the system console.

Service Response:

A code problem occurred during an attempt to use the system console. Perform LICIP03.

FRU List:

AJDG301

FI00380

A6xx5003 Service program failed

Service Response:

The ASCII system console failed to respond.

FRU List:

FI00320

FI00602

UG4USR1

AJDG301

FI00380

A6xx5004 DST console failed to respond**Servicer Response:**

The system console failed to respond. Perform RTRIP02 to determine which isolation procedure to perform.

FRU List:

FI00320

FI00602

UG4USR1

AJDG301

FI00380

A6xx5005 Service program failed**Servicer Response:**

The workstation adapter system console failed to respond. Perform WSAIP01.

FRU List:

FI00320

FI00602

UG4USR1

AJDG301

FI00380

A6xx5007 Service program failed**Servicer Response:**

The workstation adapter console failed to respond. Perform RTRIP07 to determine which isolation procedure to perform.

FRU List:

FI00320

FI00602

UG4USR1

AJDG301

FI00380

A6xx5008 DST console failed to respond. Perform OPCIP03.**FRU List:**

FI00719

A6xx5010 IPL service function ended abnormally. Perform LICIP04.**FRU List:**

AJDG301

A6xx5082 DST lost contact with the console**Servicer Response:**

A service program lost contact with the system console. Perform RTRIP03 to determine which isolation procedure to perform.

FRU List:

AJDG301

UG4USR1

A6xx5083 IPL service function ended abnormally**Servicer Response:**

A service program lost contact with the system console. Perform TWSIP01.

FRU List:

AJDG301

UG4USR1

A6xx5090 System startup failed in unattended IPL mode**Servicer Response:**

Perform the following:

- If reference code A6005090 is displayed on the control panel for more than 10 minutes, perform LICIP11.
- For reference code B6005090, perform LICIP11.

FRU List:

FI00580

FI00500

FI00301

FI00021

FI00065

AJDG301

A6xx5092 System is in DASD migration mode**Servicer Response:**

"Install Licensed Internal Code" and "Upgrade Load Source" was specified but the key is not in the manual position. Change the key position to manual and perform a system IPL.

A6xx5094 IASP detected a failure during the vary on operation

Servicer Response:
Perform LICIP12.

FRU List:
SVCDOCS

A6xx50FF DST unrecoverable program error

Servicer Response:
Perform LICIP03.

FRU List:
AJDG301

FI00380

A6xx5120 System LIC detected a program exception

Servicer Response:
System LIC detected a programming problem. If performance or other system degradation is occurring, the system may be operating with reduced resources.

Check the Product activity log for related entries. If this reference code is logged with a *Class* of Informational, then no action is required.

Otherwise, perform LICIP01.

FRU List:
AJDG301

FI00130

A6xx5121 System LIC program exception occurred

Servicer Response:
System LIC detected a programming problem for which a main storage dump may have been initiated. A problem log entry may be generated for this ref code. Perform LICIP01.

FRU List:
AJDG301

A6xx5122 System LIC program exception occurred

Servicer Response:
System LIC detected an IOP programming problem for which an IOP dump may have been initiated. Perform LICIP01.

FRU List:
FI00130

AJDG301

FI00131

A6xx5123 System LIC program exception occurred

Servicer Response:
System LIC detected an interface problem with the IOP or an IOP programming problem for which an IOP and main storage dump may have been initiated. Perform LICIP01.

FRU List:
FI00130

AJDG301

FI00131

A6xx5126 Addressed device failed to respond to selection

FRU List:
DISKDRV

STORIOA

DISKTRY

FI01106

FI01140

FI01141

DEVTERM

BACKPLN

A6xx5127 IOP timed out a disk command

FRU List:
DISKDRV

STORIOA

FI01106

DISKTRY

FI01140

FI01141

DEVTERM

BACKPLN

A6xx5128 I/O processor failure

FRU List:
FI01112

FI01107

A6xx512D An IOP dump was initiated**Service Response:**

Copy the IOP dump entry and any related entries from the Product Activity Log to suitable media, and give to an IBM service representative.

A6xx512E System LIC program exception occurred**Service Response:**

The system was in a D IPL mode when the problem was detected. A main storage dump was not taken. Perform LICIP01.

FRU List:

AJDG301

FI00130

A6xx5206 System LIC detected a missing IOP LIC code load**Service Response:**

System LIC detected a missing IOP LIC code load during IPL of the IOP. This indicates that either the IOP code load is not installed on the system load source device or that system LIC was unable to successfully read that load from the load source device. Perform LICIP01.

FRU List:

UG4USR1

A6xx5209 System LIC detected an IOP timeout during IOP IPL**Service Response:**

Verify that all IOP cable connections are secure, and check tape and other non-disk devices and media to verify that they are in a ready state. Perform LICIP01.

FRU List:

UG4USR1

FI00130

AJDG301

A6xx5219 System LIC program exception occurred**Service Response:**

An IOP signalled to system LIC that it had entered a critical internal state. LIC automatically attempted to restart the IOP. This reference code is logged for information only. No action is required.

FRU List:

FI00310

FI00318

FI00065

FI00130

AJDG301

A6xx5275 The system issued a reset/reload to the IOP.**Service Response:**

System Licensed Internal Code detected that an IOP Reset/Reload has occurred, and that the IOP successfully recovered.

Users who were signed on to a Workstation device under the IOP will need to sign back on. Any LAN/WAN communications lines under the IOP will need to be restarted. Tape/Optical devices under the IOP may need to be varied back on.

To determine the cause of the IOP Reset/Reload, check the Product Activity Log for additional entries logged with the same System Log ID, and perform any actions indicated for those errors.

A6xx5276 IOP Reset was issued**Service Response:**

LIC has detected a problem with the Service Processor IOP and has reset it but has not initiated reload of the Service Processor.

If the load source is mirrored, some system operations may be able to continue normally. However, some system service operations have been suspended and the system should be scheduled for power down as soon as possible.

Perform RTRIP08.

FRU List:

AJGLD01

AJDG301

FI00021

A6xx5310 System LIC program exception occurred**Service Response:**

System LIC detected a logical partition configuration data consistency error. Copy the Product Activity Log data for this error and any related entries and contact your next level of hardware service support.

FRU List:

LPARSUP

A6xx5311 System LIC program exception occurred**Servicer Response:**

LPAR configuration data does not match current system configuration. The system will not IPL past DST until the problem is corrected.

Following is a list of problems which may have caused this SRC to be reported:

- Non-configured disk unit which was previously a load source on a partitioned system.
- Load source configuration data does not match partition for which it is being used.
- Load source configuration data does not match system serial number for which it is being used.
- Load source configuration data is newer than primary partition configuration data.

Perform LPRIP01.

FRU List:
LPARSUP

A6xx5312 System LIC program exception occurred**Servicer Response:**

LPAR configuration data informational error. The LPAR configuration data was found to be or inconsistent on a secondary partition's load source. The data was automatically updated to the current system level.

A6xx5313 System LIC program exception occurred**Servicer Response:**

LPAR configuration data informational error. The LPAR configuration data was found to be inconsistent on a primary partition and could only be corrected with an older copy of the data.

FRU List:
LPARCFG

A6xx5320 Incorrect hardware configuration detected.**Servicer Response:**

An I/O Adapter used by a guest partition is located in a card slot on the same PCI bridge set as an I/O Processor. Guest partition data may be lost if any of the following occur:

- A primary partition Type D IPL is performed.
- The I/O Adapter is moved to an operating system partition.
- An error causes the logical partition (LPAR) configuration to not be used.

To correct the hardware configuration, either the I/O Adapter or the I/O Processor must be moved to a new location. Use the LPAR Validation Tool (LVT) to create

a valid configuration. For more information about the LPAR Validation Tool, see the following web site:

<http://www.ibm.com/eserver/series/lpar>

A6xx5340 Secondary partition not running at optimum.**Servicer Response:**

Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.

A6xx5341 Secondary partition not running at optimum.**Servicer Response:**

Check the primary partition Product Activity Log for system memory entries from approximately the same time. Perform the actions indicated for those entries.

A6xx5342 Secondary partition not running at optimum.**Servicer Response:**

Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.

A6xx5343 Secondary partition not running at optimum.**Servicer Response:**

Check the Primary partition's Product Activity Log for system memory errors from approximately the same time. Perform the actions indicated for those entries.

A6xx5344 Secondary partition not running at optimum.**Servicer Response:**

The interactive performance specified in the configuration data for this partition could not be met. Contact your next level of support.

FRU List:
LPARSUP

A6xx5350 Secondary partition software release not supported.**Servicer Response:**

The logical partition software version is outside the supported release delta. Check the Release Delta from the Primary partition "Display Partition Release Level" screen.

Check the LPAR documentation for the release level of the Primary partition and determine what the supported Release Delta is.

A6xx5380 System LIC program exception occurred**Service Response:**

Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry. Contact your next level of support.

FRU List:

LPARSUP

A6xx5390 System LIC program exception occurred**Service Response:**

Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry. Contact your next level of support.

FRU List:

LPARSUP

A6xx5505 The copying of DASD log data to the IOP log was successful**Service Response:**

IOP log data can be copied to a spool file for examination by the development lab.

A6xx5555 SLIC I/O DASD subsystem error recovery in progress.

A6xx5600 Unrecoverable read error**Service Response:**

VPD data could not be read. Look for other errors implicating hardware. There is no way to know what VPD read has failed, but the resource is not useable and should generate an error. If no such error occurred, call your next level of support.

FRU List:

SVCDOS

A6xx6900 System bus error. Contact your next level of support.**FRU List:**

FI00065

AJDG301

A6xx6901 Bus Expansion Adapter card failed. Contact your next level of support.**FRU List:**

LBUSADP

AJDG301

A6xx6902 Bus Expansion Adapter card failed. Contact your next level of support.**FRU List:**

FI00203

AJDG301

A6xx6905 Optical bus failed. Contact your next level of support.**FRU List:**

FI00065

LBUSADP

AJDG301

A6xx6906 High Speed Link (HSL) I/O bridge failure**Service Response:**

LIC could not access part of the HSL I/O bridge VPD. The bridge and HSL loop may be prevented from becoming operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the HMC is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:

SIIOADP

OPT_CLN

A6xx6907 High Speed Link (HSL) I/O bridge failure**Service Response:**

LIC detected invalid data in the HSL I/O bridge VPD. The bridge and HSL loop may not have become operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view

you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the HMC, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:
SIIOADP

OPT_CLN

A6xx6908 High Speed Link (HSL) I/O bridge failure

Service Response:
LIC data in the I/O bus vpd could not be accessed. The I/O Bus identified in the SRC may not have become operational.

If there is a B600 6906 reference code, close this problem in the serviceable event view you are working with and work the 6906 error.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event view on the HMC or service processor is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:
SIIOADP

OPT_CLN

A6xx6909 High Speed Link (HSL) I/O bridge failure

Service Response:
LIC detected invalid data in the I/O bus VPD. The bus and resources associated with it may not be operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer on the HMC is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

If the serviceable event view only indicated a frame or enclosure see the locations section for the frame or enclosure type. The location of the HSL I/O Bridge will be given in the locations tables.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:
SIIOADP

OPT_CLN

A6xx6910 I/O processor failure

Service Response:
An I/O processor timed out, returned bad status, or is not following the system bus protocol. Perform LICIP07.

FRU List:
FI00310

FI00318

FI00065

FI00130

AJDG301

A6xx6938 Not valid system configuration detected**Servicer Response:**

This systemmodel does not allow a configuration of more than three (non-OptiConnect) I/O Processors. Power down the system and remove the extra (non-OptiConnect) I/O Processor(s) so that there are three or less. Restart the system.

A6xx6944 Missing or failed I/O processor cards**Servicer Response:**

A system busappears to be empty. If the bus is not empty, two I/O processors in consecutive slots may be missing or broken. If there are broken I/O processors, then another more serious SRC has occurred. Otherwise find the bus number for this failure from the Product activity log and use the system configuration list to verify the configuration of the I/O processors on that bus.

FRU List:

FI00317

FI00316

AJDG301

A6xx6960 Multi-adapter bridge card slot error, do not use cardslot. Slot unavailable due to 64 bit card in adjacent slot.**Servicer Response:**

Slot unavailable due to 64 bit card in adjacent slot. Oneof the messages documented with the symbolic FRU will describe the problem. See the SLOTERR symbolic FRU for a list of messages and corrective actions.

FRU List:

SLOTERR

A6xx6961 Multi-adapter bridge card slot error, do not use cardslot. LED control failure, do not use slot.**Servicer Response:**

LED control failure, do not use slot.

The card location isnot available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See the SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing

item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or a serviceable event viewer on the HMC is available for this problem then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

FRU List:

SLOTERR

MASBUS

A6xx6962 Multi-adapter bridge card slot error, do not use card slot. Power control failure, do not use slot.**Servicer Response:**

Power control failure, do not use slot.

If there is a Linux™ partition in the system, any IOPs plugged into slots owned by a Linux partition will not power on. This error will be logged. Correct the situation by removing the IOP cards.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See the SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log, or serviceable event view on the HMC is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

FRU List:

SLOTERR

MASBUS

A6xx6963 Multi-adapter bridge card slot error, do not use cardslot. Power control failure, do not use slot.
Servicer Response:

Power control failure, do not use slot.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See the SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event viewer on the HMC is available then use the failing item list presented there for servicing this reference code.

If serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

FRU List:
SLOTERR

MASBUS

A6xx6964 Multi-adapter bridge configuration change or error
Servicer Response:

One of several errors or configuration problems has occurred under a Multi-adapter bridge. If you are using the Service Action Log (SAL), or the serviceable event viewer on the HMC or the service processor, then the correct FRU, description and card position(s) will be listed. Use the FRUs and descriptions in the serviceable event view you are working with to determine the problem.

If you do not have access to the Service Action Log, or serviceable event view on the HMC or service processor, then word 4 of the SRC has more information. Examine the last 4 digits in word 4 to determine the problem by comparing them to the list below and using the FRU(s) listed here.

1. xxxx2022 - IOP found in slots owned by a Linux partition. The Multi-adapter Bridge and PCI Bridge set that it controls are assigned to a Linux partition. The IOP found in the SLOT indicated by the DSA in word 7 will not be configured.

2. xxxx2014 - I/O adapters were found under the Multi-adapter Bridge but there is no IOP to support them. The adapters cannot be used.
3. xxxx2015 - An card type was found that cannot be supported in the card position where it is located.

See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

FRU List:
MABRCFG

A6xx6965 Multi-adapter bridge configuration change or error
Servicer Response:

Card type not supported in this slot.

An I/O processor or I/O adapter card type is installed in the location indicated in word 7 of the SRC. The card type is not supported in that slot under the Multi-adapter bridge. The card is unavailable.

See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

FRU List:
MABRCFG

A6xx6966 Multi-adapter bridge configuration change or error
Servicer Response:

I/O processor removed from multi-adapter bridge card slot.

On the previous IPL an I/O processor was in the card location specified in word 7 of the SRC. The I/O processor was not detected on this IPL.

See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

FRU List:
MABRCFG

A6xx6967 Multi-adapter bridge configuration change or error
Servicer Response:

I/O adapter unavailable due to moved I/O processor card.

The I/O adapters specified in word 7 of the SRC is not available. On the previous IPL there was an I/O processor card the adapter was assigned to. The I/O processor was not detected on this IPL.

See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

FRU List:
MABRCFG

A6xx6968 Multi-adapter bridge configuration change or error

Servicer Response:
IOA removed from multi-adapter bridge slot.

On the previous IPL an I/O adapter was in the card slot specified in word 7 of the SRC. That I/O adapter was not detected on this IPL.

See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

FRU List:
MABRCFG

A6xx6969 Multi-adapter bridge configuration change or error

Servicer Response:
I/O adapter replaced by I/O processor card.

On the previous IPL there was an I/O adapter in the location specified in word 7 of the SRC. This IPL LIC detected that the IOA was replaced by an IOP in that location.

See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

FRU List:
MABRCFG

A6xx696A Card slot test failed

Servicer Response:
Perform LICIP14.

FRU List:
FI00131

BACKPLN

A6xx696B Card slot could not be validated

Servicer Response:
This can be caused by "PCI error injection policy" being set to "YES" and an I/O Processor being installed on the same Multi-adapter bridge domain as the I/O Adapter. Do one of the following:

-- Using the HMC or a customer PC with a Web browser access the Advanced System Management Interface (ASMI) and disable PCI error injection policy.

OR

-- Vary off the I/O Adapter. Using Hardware Service manager in SST/DST, locate the I/O Adapter resource. Using concurrent maintenance on the associated packaging resource, remove the I/O Adapter and install it in a location that does not have I/O Processors on the same Multi-adapter bridge domain.

OR

-- Vary off the I/O Adapter. Use the concurrent maintenance option in Hardware Service Manager in SST/DST to power off all I/O Processors located on the same Multi-adapter bridge domain as the I/O Adapter. Use concurrent maintenance to power off and power on the I/O Adapter. Then use concurrent maintenance to power on the I/O Processors located on the same Multi-adapter bridge domain as the I/O Adapter.

A6xx6970 High Speed Link (HSL) resource failure

Servicer Response:
A system PCibus failure was detected. Word 7 of the SRC contains the bus number.

This failure can occur when a tower in an HSL loop is powered off using concurrent maintenance. If this is the case, close this problem.

This error is most likely in the hardware that makes up the PCI bus, the PCI bus side of the HSL I/O bridge or the multi-adapter bridge. In some cases it may be caused by a failing IOP in the multi-adapter bridge's domain. When an IOP is causing the problem, the failing IOP cannot be identified.

NOTE: This SRC can occur for the PCI bus resource on a PCI bus in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

Exchange the failing items, one at a time, in the order they are listed in the serviceable event view or this document until you get to the BRDGSET or BRDGSTx symbolic FRU. If the problem still exists after exchanging the failing items up to, but not including, BRDGSET or BRDGSTx then perform MABIP03 to determine the failing I/O processor card.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log, or serviceable event view on the HMC or service processor, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:

SI_PHB

PRI_PCI

MA_BRDG

BRDGSET

OPT_CLN

A6xx6971 High Speed Link (HSL) resource failure**Service Response:**

Failure in a multi-adapter bridge or on the bus to the card location it controls.

For this reference code the failing item list presented in the Service Action Log (SAL) or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

Perform MABIP02.

FRU List:

MA_BRDG

MASBUS

PIOCARD

A6xx6972 High Speed Link (HSL) resource failure**Service Response:**

Multi-adapterBridge (MaB) failure detected.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer on the HMC is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

FRU List:

MA_BRDG

A6xx6973 High Speed Link (HSL) resource failure**Service Response:**

Multi-adapterBridge has detected a problem in the card installed in the location specified in word 7 of the SRC. Use the FRU list in the Service Action Log (SAL), or serviceable event view you are working with. If you are working from this document's FRU list use the Symbolic FRU BRDGSET to determine the failing items.

FRU List:

BRDGSET

SIIOADP

MA_BRDG

A6xx6974 Multi-adapter bridge configuration change or error**Service Response:**

PCI I/O processor rejected the assignment of or the removal of an I/O adapter.

The direct select address in word 7 of the SRC specifies the location of the IOA. The direct select address of the IOP is in word 5 of the SRC.

See the *DSA translation table* and the *Card positions table* to determine the card locations for the IOA and the IOP.

Use slot concurrent maintenance under HSM to assign or remove the IOA.

FRU List:

MABRCFG

A6xx6975 The system issued a reset/reload to the service processor
Service Response:

Service processor error.

FRU List:

AJDGP01

A6xx6976 Service processor failure
Service Response:

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or a serviceable event viewer on the HMC is available then use the failing item list presented there for servicing this reference code.

If a serviceable event viewer is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

FRU List:

SVCPROC

A6xx6980 Network Interface Controller (NIC) resource failure
Service Response:

The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:

SICNTRL

OPT_CLN

A6xx6981 High Speed Link (HSL) I/O bridge failure
Service Response:

Cycle power on the frame identified as the frame with failed HSL I/O Bridge prior to replacing FRUs.

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are using, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

If you find either a B600 6982 or B600 6984 SRC logged at approximately the same time as this SRC then they were caused by the same failure. If you find a 6982 SRC logged at approximately the same time then close this problem and service the 6982 SRC. The failing item listed for this SRC is one of the failing items listed for B600 6982. If the serviceable event view's entry for this SRC has a location listed then record the location for use in servicing the 6982 SRC.

NOTE: This SRC can occur for the HSL I/O Bridge resource in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:

SIIOADP

OPT_CLN

A6xx6982 High Speed Link (HSL) connection failure
Service Response:

If this SRC is not in the Service Action Log (SAL), or serviceable event view you are using, then it is informational and/or statistical only. It does not require a service action.

Otherwise: This is a connection failure on an HSL link. Perform RIOIP09 to determine the service action.

FRU List:

HSL_LNK

SIIOADP

SICNTRL

REM_NIC

OPT_CLN

A6xx6983 An invalid High Speed Link (HSL) configuration was detected
Service Response:

An HSL loop has an invalid configuration. Word 4 of the SRC contains the program return code (PRC) which identifies the problem with the loop's configuration. Use the PRC and the FRU listed to determine the problem.

If you are using the Service Action Log (SAL) or serviceable event view you are working with, the FRU description may already indicate the configuration problem.

FRU List:

SIRGCFG

A6xx6984 High Speed Link (HSL) loop status message**Servicer Response:**

An HSLloop has switched to its alternate path. This is an informational SRC only.

Word 7 of the SRC contains the loop number in the leftmost 4 digits. The loop number is in hexadecimal format. You must convert the hexadecimal loop number into decimal format to recognize the loop number in HSM.

This SRC can be caused by a tower on the HSL loop powering off.

This SRC may also appear in the Service Action Log (SAL), or serviceable event viewer you are using, with a B600 6982 or B600 6981 logged at approximately the same time. In that case the other SRC is reporting a failure and this SRC is reporting that the alternate HSL path is now being used. Service the other SRC if present.

A6xx6985 High Speed Link (HSL) loop status message**Servicer Response:**

If this SRC is not in the Service Action Log (SAL), or serviceable event view you are using, then it is informational. Use FRU SIRSTAT to determine what this SRC means. Otherwise, continue with the following steps:

This error can appear as a serviceable event when a tower, or I/O unit or another system in the loop did not complete powering on before LIC on this system checked this loop for errors. Search the Product Activity Log (PAL) for the last B600 6985 SRC logged for this loop and use FRU SIRSTAT to determine if this error requires service. If the last entry indicates the loop is functioning (determined by FRU SIRSTAT) then no service action is required, close this problem

There may be multiple B600 6985 logs with xxxx 3205 in word 4 errors for the same loop resource in the serviceable event view. This is caused by retry and recovery attempts. If there is a B600 6985 with xxxx 3206 or xxxx 3208 in word 4 after the above B600 6985 entries in the PAL, then the recovery efforts were successful. If this is the case, close all the B600 6985 entries for that loop resource in the serviceable event view.

1. If you find a B600 6981 in the serviceable event view then close that problem and go to step 2. Otherwise perform the following:
 - Perform RIOIP06 to determine if any other systems are connected to this loop and return

here. (HSL_LNK or HSLxxxx FRU in the Service Action Log (SAL) entry, or serviceable event view you are working with, indicates the loop number.) If there are other system(s) then continue with the steps that follow, otherwise go to step 2.

- Check for HSL failures on the other system(s) before replacing parts. HSL failures are serviceable event entries with HSL I/O Bridge and Network Interface Controller (NIC) resources. Ignore B600 6982 and B600 6984 entries. If there are HSL failures on other system(s) then continue with the steps that follow, otherwise go to step 2.
- Repair the problems on the other systems and return to this step. After making repairs on the other system(s) check the Product Activity Log (PAL) of this system for a B600 6985 logged after the repairs you made on the other system(s). If you find one then continue with the steps that follow, otherwise go to step 2.
- For the B600 6985 log you found, use FRU SIRSTAT to determine if the loop is now complete. If the loop is complete then this problem has been resolved. Use RIOIP01 to verify that the loop is now working properly. Otherwise, go to step 2.

2. Use the serviceable event's FRU list when it is available.

If this SRC appears in the Service Action Log (SAL), or the serviceable event view you are using, with the Symbolic FRU HSL_LNK or HSLxxxx listed as a FRU, then perform problem isolation procedure RIOIP01. Otherwise exchange the FRUs listed in the serviceable event view.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:
SIRSTAT

HSL_LNK

SIIOADP

SICNTRL

OPT_CLN

A6xx6986 System bus error**Servicer Response:**

During IPL, system LIC detected an HSL I/O bridge that was already initialized. The bridge should have been in a flushed and uninitialized state after powering on. There is a problem with SPCN components that prevented the tower from powering off after a previous power off was issued. The tower will not be configured for this IPL.

This reference code is equivalent to 1xxx 90F0. When referring to the "CBLALL" symbolic FRU in the Failing Item list, perform the "CBLALL" procedure using reference code "90F0".

Word 5 of the SRC identifies the frame. Determine the frame by breaking down word 5:

Word 5 -> xxxx xxNN where: NN is the frame number in hexadecimal format.

FRU List:
TWRCARD

CBLALL

A6xx6987 High Speed Link (HSL) connection failure

Service Response:

Failures are occurring on the HSL link.

There may be B600 6982 errors logged on the same loop and about the same time as this error. Close those errors and continue to correct the problem by working this error.

- If there is a cable FRU in the serviceable event entry:
 1. If the connection is copper and either end has a loose connection, reseal the cable. To do this, disconnect the connection and wait a minimum of 30 seconds. Then reconnect the cable and complete the tightening process in at most 30 seconds. Repeat the process at the other end of the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), or serviceable event view you are using.
 2. If the connection is optical, clean the connections at both ends of the cable. See OPT_CLN OPT_CLN . If the error persists, replace the FRUs in the Service Action Log (SAL), serviceable event view you are using.
 3. If the error persists, replace the FRUs at each end of the cable starting with the FROM FRU listed in the serviceable event view you are using.
- If there was no cable in the Service Action Log (SAL), or serviceable event view you are using, then replace the FRUs listed in the serviceable event view.

FRU List:
HSL_LNK

OPT_CLN OPT_CLN

A6xx6990 Service processor failure

Service Response:

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may

vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

FRU List:
SVCPROC

A6xx6991 Service processor failure

FRU List:
AJDGP01

A6xx6992 Service processor failure

FRU List:
AJDGP01

A6xx6993 Service processor failure

Service Response:

A failure occurred with the service processor hardware or the service processor LIC. The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

FRU List:
SVCPROC

AJDGP01

A6xx6994 Service processor failure

Service Response:

The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

FRU List:
SVCPROC

A6xx699C Wrap plug is installed on Bus Expansion Adapter card

Service Response:

This reference code is for information only. It indicates the presence of a wrap plug on the local optical link card.

A6xx69A8 Informational bus reference code

Service Response:

This reference code is for information only and might include the following:

- Optical speed encode
- Broken optical links now operational
- Other information

A6xx69B8 **Bus hardware configuration problem. Contact your next level of support.**

FRU List:
FI00187

AJDG301

A6xx69C1 **A failure occurred on another system. Contact your next level of support.**

FRU List:
FI01040

FI00206

FI00182

AJDG301

A6xx69C2 **Information only, no service action required. HSL OptiConnect normal connection to another system or partition.**

Service Response:

This reference code is informational only. HSL OptiConnect has established connection normally. The local system or partition is participating in HSL OptiConnect with other systems or partitions on the same HSL loop.

A6xx69C3 **Information only, no service action required. OptiConnect normal remote disconnection from OptiConnect participation.**

Service Response:

This reference code is informational only.

HSL OptiConnect disconnected normally from a remote node. The local system or partition has stopped participating in HSL OptiConnect with the remote system or partition on the same HSL loop. Possible reasons include:

- A remote system or partition went off line due to a normal power off or disable of HSL OptiConnect.

A6xx69C5 **I/O processor failure. Contact your next level of support.**

FRU List:
FI00206

FI01040

AJDG301

A6xx69C6 **Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.**

Service Response:

The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. The problem is most likely with the remote system or partition. Intervention at the remote system is most likely required. Examine both the local and remote HSL OptiConnected systems or partitions for problems on this HSL loop.

Possible reasons include: A fatal error in software or hardware in the remote system or partition or a power failure in the remote system.

If there was not a complete HSL loop before this error occurred then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for a problem with: an HSL cable, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the Service Action Log (SAL), or serviceable event view you are using on the local system or partition for HSL failures on the same HSL loop at approximately the same time this error occurred.

Examine the remote system or partition for problems. If the remote system or partition is powered on and IPL'd then examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL OptiConnect or HSL loop components or Network Interface Controllers. When the remote system is IPL'd it will automatically reconnect with this system or partition.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

FRU List:
REM_SYS

A6xx69C7 **Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.**

Service Response:

The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required.

Possible causes are: time out, hang or hardware failure. The problem may be with: the local system or partition or the remote system or partition.

If there was not a complete HSL loop before this error then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for SRCs with FRUs like: HSL cables, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the SAL or serviceable event view you are working with on the local system or partition for failures on the same loop, or with the Network Interface Controller at approximately the same time.

Examine the remote system or partition for problems. Correct any HSL or NIC problems you find with the remote and local systems or partitions.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log (PAL) information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

FRU List:
REM_SYS

LOC_SYS

A6xx69C8 Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.

Service Response:

The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. All of the HSL OptiConnect connections on this loop will be in a failed state. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required. Possible causes are:

- time out of a critical message
- LIC code / table problem
- Network deadlock detected

The problem may be with:

- The local system or partition
- The remote system or partition

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL failures on the same HSL loop, or with the Network Interface Controller at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop or with the Network Interface Controller at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on all systems or partitions. Be sure to record all words in the SRCs. Contact your next level of support.

FRU List:
REM_SYS

LOC_SYS

AJDG301

A6xx69C9 Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.

Service Response:

The local system or partition disconnected from a remote system or partition due to an failure in a LIC virtualized bus unit. LIC will attempt to recover from the error. Possible causes are:

- LIC problem where the local bus unit is off line.
- LIC problem where the remote bus unit is off line.

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or the serviceable event view you are using, on the remote system or partition for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop.

A6xx69CF • A6xx69DE

Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

FRU List:
AJDG301

REM_SYS

LOC_SYS

A6xx69CF **Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.**

Service Response:

LIC internal error. All systems participating in HSL OptiConnect will be disconnected. The system must be re-IPL'd to recover. Before re-IPL'ing the system initiate a main store dump.

After getting the dump, examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote systems or partitions for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote systems or partitions for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

FRU List:
AJDG301

A6xx69D0 **Bus Expansion Adapter card failed. Contact your next level of support.**

FRU List:
FI00182

FI00055

AJDG301

A6xx69D8 **Bus Expansion Adapter failed. Contact your next level of support.**

FRU List:
FI00182

FI00203

FI00055

LBUSADP

AJDG301

A6xx69D9 **Host Ethernet Adapter (HEA) failure.**

Service Response:

Firmware detected a hardware failure in the Host Ethernet Adapter (HEA).

FRU List:
HEA

A6xx69DA **System log entry only, no service action required.**

Service Response:

System log entry only, no service action required

A6xx69DB **LIC failure. A Licensed Internal Code error occurred.**

Service Response:

The partition will continue to run with this Host Ethernet Adapter (HEA) disabled. Perform a partition dump and then IPL the partition to recover the HEA. Send the partition dump to your next level of support.

A6xx69DC **The HEA is not connected to the Ethernet switch.**

Service Response:

The Host Ethernet Adapter (HEA) is not connected to the Ethernet switch. If the HEA connection is not needed, no service action is required.

If the HEA connection is needed, verify that the cable is connected and the switch is powered on. After repairing the problem, verify that the connection has been restored.

A6xx69DD **The HEA connection to the Ethernet switch has been restored.**

Service Response:

System log entry only, no service action required.

A6xx69DE **HEA Media Interface Adapter Failure.**

Service Response:

Firmware detected a failure in the HEA Media Interface Adapter.

FRU List:
HEA

AJDG301

A6xx69E0 Bus Expansion Adapter card failed**Servicer Response:**

Contact your nextlevel of support.

FRU List:

FI00203

AJDG301

A6xx69E8 Bus Expansion Adapter failed. Contact your next level of support.**FRU List:**

FI00203

FI00205

FI00057

AJDG301

A6xx69F0 Bus Expansion Adapter failed. Contact your next level of support.**FRU List:**

FI00180

FI00182

FI00203

FI00056

FI00205

LBUSADP

AJDG301

A6xx69F8 Bus Expansion Adapter failed. Contact your next level of support.**FRU List:**

FI00180

FI00203

FI00182

FI00186

FI00057

AJDG301

A6xx7001 ISDN call in rejected**FRU List:**GG4COMM

A6xx7002 Lines not selected**FRU List:**GG4COMM

A6xx7003 Network interfaces not selected**FRU List:**GG4COMM

A6xx7004 TCP/IP informational error**Servicer Response:**

This reference code is logged when the TCP/IP Attribute "Log Protocol Errors" is set, and the TCP/IP System LIC "silently discards" an inbound datagram. "Silently discard" is defined to mean discard the received datagram without reporting an error to the originating host device. Examples of such datagrams are those with checksums or destination addresses which are not valid.

This reference code is for information only. Normally no action should be taken as a result of this reference code. It is generated in order to assist with remote device or TCP/IP network problem determination.

A6xx7055 Statistics were logged, no service action required**Servicer Response:**

This reference code is logged for information only.

A6xx7100 APPN session initiation attempt has timed out.**Servicer Response:**

This reference code is used to indicate that LIC timed out on a request to initiate a session.

The user must run problem analysis for this reference code. If this indicates a software problem, the user should dial IBM Software Support for assistance.

The Problem Determination Procedure (PDP) will indicate whether the original timeout condition still exists and what the corrective actions should be.

FRU List:

AJDG301

GG4PL03

GG4PL01

GG4PL02

A6xx7101 APPN session initiation attempt has failed

Service Response:

This reference code is used to indicate that LIC attempted to satisfy a session initiation request, but some failure condition was detected by LIC. The failure condition could be a configuration or operational problem in the network.

The user must run problem analysis for this reference code. If this indicates a software problem, the user should dial IBM Software Support for assistance.

The Problem Determination Procedure (PDP) will indicate whether the original timeout condition still exists and what the corrective actions should be.

FRU List:
GG4PL04

GG4PL05

GG4PL06

AJDG301

A6xx7102 APPN CP-CP session ended.

A6xx7201 A utility failure occurred.

Service Response:

This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a utility failure.

A6xx7202 Utility power restored.

Service Response:

This reference code is for information only. The Uninterruptible Power System (UPS) is reporting that utility power has been restored.

A6xx7203 A battery low condition was detected.

Service Response:

This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a battery low condition.

A6xx7204 Uninterruptible Power System reported a bypass active

Service Response:

This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a bypass is active.

A6xx7205 Battery low condition was reset.

Service Response:

This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a battery low condition.

A6xx7206 UPS reported bypass no longer active

Service Response:

This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a bypass active condition.

A6xx7207 Battery Power Unit needs service

Service Response:

The replacement period for BPU 1, installed in the System Unit, has been exceeded.

FRU List:
FI00315

A6xx7208 Battery Power Unit needs service

Service Response:

The replacement period for BPU 2, installed in the System Unit, has been exceeded.

FRU List:
FI00315

A6xx7209 Battery Power Unit needs service

Service Response:

The replacement period for BPU 1, installed in the Expansion Unit, has been exceeded.

FRU List:
FI00315

A6xx720A Battery Power Unit replacement dates do not match

Service Response:

The replacement dates for one of the Battery Power Units do not match. Run "Display Hardware Configuration" and verify that the dates match the labels on the batteries.

A6xx7701 SCSI jumper card was not detected.

FRU List:
21H7625

BACKPLN

A6xx7702 Incorrect SCSI jumper card detected**FRU List:**
21H7625

A6xx7703 System LIC detected a program exception**Service Response:**

Storage Management detected a DASD data check condition and the defective sector was reallocated. Perform a system IPL to restart the system.

A6xx7704 General failure detected by HRI component.**FRU List:**
AJDG301

A6xx7777 Hardware configuration change detected**Service Response:**

A hardware resource is missing. The resource reported in to the system on a previous IPL, but has not reported in on the current IPL. This could occur for several different reasons.

1. It could be a normal situation where the resource is currently powered off. In this case, when the resource is powered back on, it will no longer be missing.
 2. The hardware resource could also be missing if it has been removed from the system, for example, a tape drive that was replaced with a different tape drive. The service representative should use the Hardware service manager to remove the entry for this resource.
 3. The resource may not have reported in on this IPL because it is failing. Perform problem analysis to determine why the resource is failing.
-

A6xx8000 An external storage subsystem disk unit connection failed**Service Response:**

Look for other errors in the Service Action Log (SAL), or serviceable event view you are working with, and fix them.

A6xx8001 An external storage subsystem disk unit connection failed**Service Response:**

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

A6xx8002 Maximum number of redundant connections exceeded**Service Response:**

An attempt to activate a connection from another I/O adapter to an external storage subsystem disk unit failed because the maximum number of connections are already active for this disk unit. No action required.

A6xx8003 External storage subsystem disk unit connection was restored. No action required.

A6xx8004 An external storage subsystem disk unit connection failed**Service Response:**

Could not read configuration information from the disk unit. Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

A6xx8005 High performance connection failed.**Service Response:**

A high performance connection to an external storage subsystem disk unit failed.

There are still two or more external storage subsystem disk unit connections, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

A6xx8006 High performance connection failed**Service Response:**

A high performance connection to an external storage subsystem disk unit failed.

There is still one more external storage subsystem disk unit connection, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

A6xx8007 High performance connection was restored**Service Response:**

A high performance connection to an external storage subsystem disk unit was restored. Performance is no longer degraded. No action required.

A6xxCF00 **Permanent error on optical device.**

A6xxCFFC **Optical library device condition not expected**

Service Response:

The optical disk drive addressing within the optical library is incorrect. This error is likely to be the result of faulty cabling or switch setting following service to an optical library. Contact your hardware service provider.

FRU List:
OPTLCBL

 DRVSWCH

A6xxCFFD **Optical drive failure**

FRU List:
OPTLDRV

A6xxCFFF **Media determined to be bad in Optical library**

A6xxF103 **Main storage dump must be copied for service.**

Service Response:
Perform LICIP01.

A6xxF104 **Logical partition service function Main Storage Dump.**

Service Response:

The hypervisor terminated a partition with an unresponsive Operating System. A Main Store Dump must be done for service. Call your next level of support when the dump is complete. Perform LICIP01.

A6xxF105 **Licensed Internal Code detected error**

FRU List:
NEXTLVL

A6xxFDC0 **LIC program reported informational error**

Service Response:

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

A6xxFDC5 **LIC program failed and data was captured**

Service Response:

This reference code indicates first failure data capture (FFDC) data was collected for a problem reported by licensed internal code. The user should dial IBM Software Support for assistance.

FRU List:
GG4FFDC

(A7xx) Licensed Internal Code reference codes

Licensed Internal Code reference codes

Perform the following actions:

1. Find the reference code by looking at characters 1 through 8 of the top 16 character line of function 11 (8 rightmost characters of word 1). These 8 characters are the reference code.
2. Look up the reference code in the following list.
3. Perform the actions in the description. In all cases, once the FRU is determined, go to the locations table for the system you are working on to determine the location, and use the remove and replace procedure for the FRU.

A7xx0102 **Platform LIC detected an error**

Service Response:

A machine check occurred during IPL. Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9 before attempting to IPL again and report the problem to next level of support.

FRU List:
SVCDOCS

A7xx0103 **Platform LIC failure.**

Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange. The platform Licensed Internal Code (LIC) detected an internal problem. Collect all the SRC words and the platform system dump, then contact your next level of support.

FRU List:
LICCODE

A7xx0104 Platform LIC failure**Service Response:**

Machine check, undefined error occurred.

FRU List:

LICCODE

A7xx0105 Platform LIC detected an error**Service Response:**

More than one request to terminate the system was issued.

FRU List:

NEXTLVL

A7xx0106 Platform LIC failure**Service Response:**

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

A secondary failure due to an invalid SRC occurred when the platform attempted to terminate.

Collect all the SRC words and the platform system dump, then contact your next level of support.

FRU List:

LICCODE

A7xx0107 Platform LIC failure**Service Response:**

The server detected an unrecoverable machine check condition. Collect all the words of the SRC and the platform dump and send to your system manufacturer for analysis.

FRU List:

SVCDOCS

A7xx0200 System firmware has experienced a low storage condition.**Service Response:**

No immediate action is necessary. Continue running the system normally. At the earliest convenient time or service window work with your service provider to take a platform dump and reIPL the system.

FRU List:

SVCDOCS

A7xx0201 System log entry only, no service action required.

A7xx0302 Platform LIC failure**Service Response:**

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

Perform a platform system dump and notify your service provider. IPL the system.

FRU List:

LICCODE

A7xx0441 Service processor failure**Service Response:**

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The platform encountered an error early in the IPL or termination process.

FRU List:

SVCPROC

NEXTLVL

A7xx0443 Service processor failure**FRU List:**

SVCPROC

NEXTLVL

A7xx0601 System log entry only, no service action required**Service Response:**

Support can use this SRC and associated data to determine why the time of day for a partition was lost. No corrective action is required.

A7xx0602 Platform LIC detected an error**Service Response:**

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

Platform Licensed Internal Code (LIC) detected an error condition. The second word indicates the severity of the error and the specific error condition. If word 2 is 10000A01 then record the SRC words and call your next level of support; otherwise this does not require service.

FRU List:

NEXTLVL

A7xx0611 System clock problem**Servicer Response:**

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

For systems managed by an HMC, use the ASM interface to reset the system clock at power on standby. For systems without an HMC, you can ignore this error.

If the error occurs a second time, call your next level of support.

FRU List:

SVCDOCS

A7xx0621 System log entry only, no service action required**Servicer Response:**

No service action required.

A7xx0641 Platform LIC detected an error.**Servicer Response:**

A platform LIC failure occurred. Perform a platform dump and contact your next level of support.

FRU List:

SVCDOCS

A7xx0650 Platform LIC detected an error**Servicer Response:**

Resource management was unable to allocate main storage. A platform dump was started.

Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9. Collect the platform dump and the configuration of the memory allocation for all partitions on this system. Provide the platform dump, configuration data, and the recorded SRC information to your next level of support.

FRU List:

NEXTLVL

A7xx0651 The system detected an error in the system clock hardware**Servicer Response:**

This is a serviceable event only if this error appears in a serviceable event view.

If this is a serviceable event, then work with the FRU list in the serviceable event view if there is one. Otherwise, use the FRU list documented in the Failing Items column to determine the parts to exchange.

If the system did not log this error as a serviceable event, then no service action is required.

FRU List:

CLCKMOD

A7xx0803 System log entry only, no service action required.**A7xx0804 System log entry only, no service action required.****A7xx0A00 System log entry only, no service action required****Servicer Response:**

A user request initiated an I/O tower/drawer power off. No corrective action is required.

A7xx0A10 System log entry only, no service action required**Servicer Response:**

No action is required, unless the Hardware Management Console (HMC) indicates that the concurrent platform firmware update failed. In that case, the system must be re-IPLed in order for the firmware update to occur. Collect the error log data for this SRC and contact PHYP development to debug the problem.

A7xx1150 System log entry only, no service action required.**Servicer Response:**

No action needed unless a serviceable event was logged. If a serviceable event was logged, resolve that error.

A7xx1151 System log entry only, no service action required.**Servicer Response:**

No action needed unless a serviceable event was logged. If a serviceable event was logged, resolve that error.

A7xx1152 Platform firmware detected a timeout condition. A reset/reload of the service processor has cleared the timeout condition.**Servicer Response:**

If a service processor dump exists, it should be collected for IBM Service.

This SRC means that there was an FSP mailbox message timeout (high level timeout). This error may be logged either as Serviceable or as Informational:

- Serviceable - a command timeout occurred waiting for the FSP to respond. This error will be logged just prior to requesting an FSP reset/reload.
- Informational - an outstanding mailbox command was cancelled due to a reset/reload occurring.

Note: The offending mailbox message Type/Subtype/Modifier is in SRC word 6.

FRU list::
NEXTLVL

A7xx1160 Service processor failure

Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The platform encountered an error communicating with the service processor. The platform code attempts a graceful shutdown of partitions and powers off the server after a certain time, or when the last partition indicates shutdown, whichever comes first.

FRU List:
SVCPROC

LICCODE

A7xx1161 System log entry only, no service action required

Service Response:

The platform encountered a service processor event indicating that the power status has changed. Note that this is A7xx only.

A7xx1730 Platform LIC detected an error

Service Response:

The VPD for the system is not what was expected at IPL.

When word 9 is 00180003, a redundant VPD chip exists, and the system will continue to run. Replace the VPD card at your next scheduled maintenance. When word 9 is not 00180003 replace the VPD card immediately.

Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.

FRU List:
CAPACTY

A7xx1731 Platform LIC detected an error

Service Response:

The VPD for the system is not what was expected at IPL. The VPD on a memory DIMM is not correct and the memory on the DIMM cannot be used, resulting in reduced memory.

Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.

FRU List:
MEMDIMM

A7xx1732 Platform LIC detected an error

Service Response:

The VPD for the system is not what was expected at IPL. The VPD on a processor card is not correct and the processor card cannot be used, resulting in reduced processing power.

Work with the FRU list in the serviceable event view if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.

FRU List:
ANYPROC

A7xx1733 Platform LIC detected an error

Service Response:

If required Capacity on Demand functions are not available, re-IPL the system. Otherwise, no service action is required.

A7xx173A System log entry only, no service action required

Service Response:

A VPD collection overflow occurred, no service action required.

If a system problem is suspected, look for other errors in the serviceable event view.

A7xx173B Platform LIC detected an error

Service Response:

A platform LIC failure occurred during VPD collection.

Look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View. If that does not correct the problem, contact your next level of support.

FRU List:
SVCDOCS

A7xx4091 User intervention required

Service Response:

The system power on has reached a standby state. The firmware does not have partition configuration information.

Use the Hardware Management Console (HMC) to activate one or more partitions to change the system from a standby state to an operating state. If the HMC does not manage the server, perform Restoring your server to factory settings .

A7xx4400 There is a platform dump to collect

Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

Use the operating system's interface designated to collect platform dumps.

FRU List:

SVCDOS

A7xx4401 Platform LIC failure

Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The platform LIC detected an internal problem.

Contact your next level of support.

FRU List:

NEXTLVL

A7xx4402 Platform LIC failure.

Service Response:

A platform LIC error occurred while attempting to allocate the memory necessary to create a platform resource dump.

FRU List:

NEXTLVL

A7xx4700 Platform LIC detected an error

Service Response:

A problem occurred when initializing, reading, or using system VPD.

Capacity on Demand is not available because the stored activation code is not valid. Contact your next level of support to verify your activation code. If the activation code is valid, replace the VPD card.

FRU List:

SVCDOS

CAPACTY

A7xx4701 Platform LIC detected an error

Service Response:

A problem occurred when initializing, reading, or using system VPD. The IPL failed.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:

CAPACTY

A7xx4703 Platform LIC failure

Service Response:

A problem occurred when initializing, reading, or using system VPD. The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.

FRU List:

LICCODE

A7xx4704 Platform LIC detected an error

Service Response:

The Capacity on Demand function is no longer available. If Capacity on Demand functions are required, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View. If that does not correct the problem, or no errors were found, contact your next level of support.

FRU List:

SVCDOS

A7xx4705 Platform LIC failure

Service Response:

A problem occurred when initializing, reading, or using system VPD. The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.

A7xx4710 Platform LIC detected an error

Service Response:

A communications problem with the service processor occurred while initiating Capacity on Demand. The Capacity on Demand function is not available.

If Capacity on Demand function is required, look for errors with SRCs of the form B1xxxxxx or B7xx69xx in

the Serviceable Event View. Work those errors. If that does not correct the problem, contact your next level of support.

FRU List:
SVCDOCS

A7xx4712 Platform LIC detected the VPD card is missing

Service Response:

A problem occurred when initializing, reading, or using system VPD.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:
CAPACTY

A7xx4713 Platform LIC detected an error

Service Response:

The VPD card has been exchanged with a not valid card. Reinstall the original VPD card in the system.

FRU List:
SVCDOCS

A7xx4714 Platform LIC has detected a new VPD card

Service Response:

The new VPD card requires new activation codes. Enter the new activation codes.

FRU List:
SVCDOCS

A7xx4715 Platform LIC detected an error

Service Response:

A problem occurred when initializing, reading, or using system VPD.

Look for errors with SRCs of the form B1xxxxxx in the Serviceable Event View. Work those errors first. If that does not correct the problem, replace the VPD card.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:
SVCDOCS

CAPACTY

A7xx4716 User intervention required

Service Response:

The Capacity on Demand activation code recovery period has been started. Either obtain more capacity by obtaining new activation codes or allocate fewer resources in the LPAR configuration.

FRU List:
SVCDOCS

LPARCFG

A7xx4721 The World-Wide Port Name (WWPN) Prefix is not valid.

Service Response:

Contact your hardware service provider to obtain a valid World-Wide Port Number (WWPN). Once you have obtained a valid WWPN value, go to ASM and select: **System_Configuration->Program_Vital_Product_Data->System_Keywords**. On the System_Keyword menu, enter the value for the 'WN' keyword.

FRU List:
SVCDOCS

A7xx4730 Platform LIC detected an error

Service Response:

A problem occurred when configuring the logical partitions on the system. More resources were allocated than there are available for use. Either obtain more capacity by obtaining new activation codes or allocate fewer resources in the LPAR configuration.

FRU List:
SVCDOCS

LPARCFG

A7xx4731 Platform LIC detected an error

Service Response:

The system has been running with full Capacity on Demand resources activated. In one hour, the system will terminate and unlicensed resources will no longer be available. To prevent the system from terminating, enter an activation code of all zeroes. Then obtain the proper activation codes for the resources being used or allocate fewer resources in the LPAR configuration.

FRU List:
SVCDOCS

A7xx4733 Platform LIC failure

Service Response:

A7xx4740 • A7xx47FF

The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.

A7xx4740 Platform LIC detected an error

Service Response:

An incorrect activation code has been detected. Resources associated with this activation code have been disabled. Enter a valid activation code.

A7xx4741 Platform LIC detected an error

Service Response:

The number of allowable attempts to enter a valid activation code has been exceeded. The system will continue to run, but a system IPL is required in order to retry entering a valid activation code.

A7xx4742 Platform LIC detected an error

Service Response:

A communications problem with the service processor occurred. No Capacity on Demand changes can be made, but you can continue to run with the current Capacity on Demand resources.

Look for errors with SRCs of the form B1xxxxxx or B7xx69xx in the Serviceable Event View. Work those errors first. If that does not correct the problem, re-IPL the system. If that does not correct the problem, contact your next level of support.

FRU List:
SVCDOCS

A7xx4747 User intervention required

Service Response:

One hour remains until the On/Off Capacity on Demand request expires. Permanently activate the temporary Capacity on Demand resources, enter a new On/Off Capacity on Demand request for the temporary resources, or remove all temporary resources from partitions before the request expires.

FRU List:
SVCDOCS

A7xx4748 User intervention required

Service Response:

One hour remains until the Utility Capacity on Demand enablement expires. In order to reactivate temporary resources, a new Utility Capacity on Demand enablement code is required.

FRU List:
SVCDOCS

A7xx4749 User intervention required

Service Response:

One hour remains until the Trial Customer on Demand activation expires. Obtain a permanent activation code or remove all temporary resources from partitions before the request expires.

FRU List:
SVCDOCS

A7xx4750 A Capacity on Demand change has been detected.

Service Response:

Utility Capacity on Demand resources have been activated.

A7xx4788 System log entry only, no service action required

Service Response:

The data obtained from the system is not what was expected. The IPL will continue. Should other errors occur, contact your next level of support.

A7xx47C1 Capacity on Demand data mismatch

Service Response:

The data obtained from the system is not what was expected. The system will perform a slow IPL in order to obtain the correct data. If other errors occur, contact your next level of support.

A7xx47CB Fast system IPL changed to slow system IPL

Service Response:

The data obtained from the system is not what was expected. The system will perform a slow IPL in order to obtain the correct data. If other errors occur, contact your next level of support.

A7xx47CD Platform LIC detected an error

Service Response:

The server detected a not valid Capacity On Demand activation and terminated the system. The allocated resources for the system might exceed those that are available for use.

FRU List:
SVCDOCS

A7xx47FF System log entry only, no service action required

Service Response:

The Capacity on Demand History Log has been written to the error log. No service action is required.

A7xx5120 Platform LIC detected an error**Service Response:**

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange. If the system is not exhibiting problematic behavior, this error may safely be ignored. Otherwise, contact your next level of support.

FRU List:

NEXTLVL

A7xx5121 Platform LIC failure**Service Response:**

Licensed Internal Code program exception occurred.

Platform Licensed Internal Code detected a programming problem for which a platform dump may have been initiated.

Send the system error log and the platform dump, if it occurred, to your next level of support.

FRU List:

NEXTLVL

A7xx5122 Platform LIC detected an error**Service Response:**

Platform Licensed Internal Code detected that an IOP request failed.

This error indicates a failure during a search for the load source. There may be a number of these failure prior to finding a good load source. This is normal. If a B2xx3110 error is logged, a B2xx3200 or B7005122 may be posted to the control panel. Work the B2xx3110 error in the Serviceable Event View. If the system IPL hangs at B2xx3200 or B7005122 and you cannot check the SRC history, perform the actions indicated for the B2xx3110 SRC.

FRU List:

SVCDOCS

A7xx5123 Platform LIC detected an error**Service Response:**

A Licensed Internal Code program exception or data collection occurred. This may indicate an IOP programming problem or an IO Adapter boot problem. Look for other errors. If no other errors are present, Licensed Internal Code has recovered from any exception conditions, or this SRC has logged informational platform boot or hardware data.

A7xx5190 Operating System error**Service Response:**

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The platform detected a problem in an Operating System. Check for errors in the partition ID specified in word 4 of the SRC. If correcting those errors does not correct the problem, or if you find no errors, contact your next level of support.

FRU List:

SVCDOCS

A7xx5191 Platform LIC detected an error**Service Response:**

A virtual adapter configuration error occurred.

A partition tried to use a virtual adapter which is associated with another virtual adapter in a remote partition and virtual slot. However, either no virtual adapter is configured there, or the wrong kind of virtual adapter is configured there.

The partition ID of the virtual adapter with the problem is in word 4 of the SRC (in hexadecimal format). The virtual slot number of the adapter with the incorrect configuration is the last four digits of word 6 of the SRC (in hexadecimal format).

Use the Hardware Management Console (HMC) to verify or reconfigure the incorrect virtual adapter configuration. If the configuration is correct, continue with the next failing item in the list.

FRU List:

SVCDOCS

LICCODE

A7xx5209 Platform LIC detected an error**Service Response:**

System Licensed Internal Code detected an IOP timeout during IOP IPL.

This may be caused by loose connections, improperly seated cards, media, or removeable media drive not in a ready state. Look for other errors.

A7xx5219 Platform LIC detected an error**Service Response:**

Information only, no service action required.

Licensed Internal Code program exception occurred.

A7xx5300 • A7xx6907

An IOP signalled to system Licensed Internal Code that it had entered a critical internal state. Licensed Internal Code automatically attempted to restart the IOP.

A7xx5300 Platform LIC detected a failure while partitioning resources

Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

Platform partitioning code encountered an error. This SRC represents a large number of possible problems, most of which involve the platform Licensed Internal Code (LIC).

Work any error logs found in the Serviceable Event View. If this fails to correct the problem, or if there are no other errors, contact your next level of support.

A7xx5301 User intervention required

Service Response:

System detected a problem with the Logical Partition (LPAR) Configuration.

Use the Hardware Management Console to reconfigure the LPAR configuration.

Check Hardware Management Console (HMC) partition state.

1. If in Recovery state then use the HMC to perform "Recovering partition data on a managed system".
2. Use HMC to activate partitions

FRU List:

SVCDOS

A7xx5400 A resource has been disabled due to hardware problems

Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The platform detected a problem with a processor. The processor is not functional.

Look in the Serviceable Event View for a B1xx xxxx error that implicates a processor.

If the Serviceable Event View contains no B1xx xxxx error, or if resolving the error fails to correct the problem, contact your next level of support.

FRU List:

SVCDOS

A7xx5600 Problem initializing, reading or using system VPD.

Service Response:

Look for other hardware errors in the Serviceable Event View. If no other errors have been logged, contact your next level of support.

A7xx5601 Platform LIC failure.

Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

There was a problem initializing, reading, or using system VPD.

FRU List:

NEXTLVL

A7xx6900 PCI host bridge failure

Service Response:

If you find a B7006981 SRC logged at about same time and listing parts from same enclosure as one of the FRUs here, then close this problem and work the B7006981 SRC.

Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.

If the Serviceable Event View is not available, use the FRU List presented here for servicing this reference code.

FRU List:

PRIPCI

MA_BRDG

MABIP50

PIOCARD

A7xx6906 System bus error

Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:

SIIOADP

A7xx6907 System bus error

Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:
SIIOADP

LICCODE

A7xx6908 System bus error

Servicer Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:
SIIOADP

MA_BRDG

A7xx6909 System bus error

Servicer Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:
SIIOADP

MA_BRDG

LICCODE

A7xx6944 Platform LIC detected an error

Servicer Response:

A system bus appears to be empty. If the bus is not empty, a hardware or configuration problem might exist. Look for other errors.

A7xx6950 Platform LIC detected an error

Servicer Response:

A platform dump has occurred. The system has lost all the configured system settings (such as the HMC access and ASMI passwords, time of day, network configuration, hardware deconfiguration policies, etc.) that you might have set through user interfaces. Also, the system has lost the platform error logs and partition-related information, and the service processor is reset. Perform the recovery actions for the SVCPROC FRU but do not replace the service processor. The platform dump should be sent to your service provider.

FRU List:
SVCDOCS

A7xx6951 Platform LIC detected an error

Servicer Response:

An error occurred because a partition needed more NVRAM than was available.

The partition is still functional, but is operating in a degraded mode. Configuration information may be lost at the next IPL. In order to make more NVRAM available, delete one or more partitions.

FRU List:
SVCDOCS

A7xx6952 System log entry only, no service action required.

A7xx6965 Platform LIC detected an error

Servicer Response:

Unknown hardware detected. Look for other errors.

A7xx6970 PCI host bridge failure

Servicer Response:

If you find a B7006981 SRC logged at about same time and listing parts from the same enclosure as one of the FRUs here, then close this problem and work the B7006981 SRC.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:
PRIPCI

MA_BRDG

MABIP50

PIOCARD

A7xx6971 PCI secondary bus failure

Servicer Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:
MABIP51

PIOCARD

MASBUS

MA_BRDG

A7xx6972 System bus error

Servicer Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:

MA_BRDG

PRIPCI

A7xx6973 System bus error
Service Response:

If you find a B7006981 SRC logged on the same expansion unit as one of the FRUs here, then close this problem and work the B7006970 SRC. Use the unit value of the location codes to determine if the expansion unit is the same.

Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.

If the first half of word 7 is not 0001, remove SVCPROC (the service processor) from the list of possible FRUs.

FRU List:

PIOCARD

MA_BRDG

SVCPROC

PRIPCI

MASBUS

A7xx6974 IOP rejected the assignment of an IOA.
Service Response:

An I/O Processor rejected the assignment of an I/O Adapter during the IPL of an i5/OS partition.

If the partition IPLed successfully, this event is logged for information only. No service action is required.

If the partition failed to IPL, replace the IOA. If that does not resolve the problem, replace the IOP that controls the IOA.

The Direct Select Address (DSA) of the IOA is in word 7 of the SRC. In order to find the location of the IOA, see *DSA translation* to get the unit type in which the IOA is located. Then using the DSA and unit type, go to *Card positions* to find the location of the IOA.

A7xx6978 System log entry only, no service action required.
Service Response:

System log entry only, no service action required.

A7xx6979 System log entry only, no service action required.
Service Response:

System log entry only, no service action required.

A7xx697C Connection from service processor to system processor failed. Look for B15Cxxxx SRCs in the Serviceable Event View and resolve them.
Service Response:

If there are no B15CxxxxSRCs logged, then replace the failing items listed in the Serviceable Event View, if they are available. Otherwise, work with the failing items listed here.

FRU List:

SVCDOCS

SVCPROC

ANYPROC

SYSBKPL

A7xx6980 Network Interface Controller (NIC) resource failure
Service Response:

If the serviceable event view contains a FRU list, work with those FRUs. Otherwise, exchange the failing items listed here.

Note: A fiber optic cleaning kit may be required for optical HSL connections.
A platform dump has occurred. Send the dump to your service provider.

FRU List:

SICNTRL

LICCODE

OPT_CLN

A7xx6981 High Speed Link (HSL) I/O bridge failure
Service Response:

If you find a 1xxx SRC logged on the same expansion unit as one of the FRUs here, then close this problem and work the 1xxx SRC. Use the unit value of the location codes to determine if the expansion unit is the same.

Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.

FRU List:

SIIOADP

A7xx6982 High Speed Link (HSL) connection failure
Service Response:

Perform the RIOIP11 procedure.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

Note: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:
SVCDOCS

HSL_LNK

OPT_CLN

FRPORT

TOPORT

A7xx6983 An invalid High Speed Link (HSL) configuration was detected
Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The four rightmost characters of word 4 in the reference code represent the Program Return Code (PRC), which describes the problem detected. The four leftmost digits of word 7 represent the loop number in hexadecimal format. Convert the loop number to decimal format before comparing it to loop numbers shown in serviceable event views and service tools.

To determine the problem, find the PRC in the list below.

Note: The FRU description in the serviceable event view may already contain a message that identifies the problem.

- xxxx 0008 indicates the system serial number is not set. Set the serial number on the system unit. If the problem persists contact your next level of support.
- xxxx 3201 indicates there are clustered systems on multiple HSL/RIO loops. You will need to ensure all clustered systems are on the same HSL/RIO loop.
- xxxx 3217 indicates there is a model 5791, 5792, or 5794 IO drawer on a loop with clustered systems. This is not a supported configuration.

This ends the procedure.

FRU List:
SVCDOCS

A7xx6984 System log entry only, no service action required
Service Response:

An HSL loop has switched to its alternate path. This is an informational SRC only.

Word 7 of the SRC contains the loop number in the leftmost 4 digits. The loop number is in hexadecimal format. You must convert the hexadecimal loop number into decimal format to recognize the loop number.

This SRC can be caused by a tower on the HSL loop powering off.

This SRC may also appear in a Serviceable Event View you are using, with a B700 6982 or B700 6981 logged at approximately the same time. In that case the other SRC is reporting a failure and this SRC is reporting that the alternate RIO path is now being used. Service the other SRC if present.

A7xx6985 High Speed Link (HSL) loop status message
Service Response:

This is a serviceable event only if this error is in a serviceable event view. If this is a serviceable event then perform RIOIP12. Otherwise if this is NOT a serviceable event then to determine what this SRC means use symbolic FRU SIRSTAT .

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

Note: A fiber optic cleaning kit may be required for optical HSL connections.

FRU List:
SVCDOCS

HSL_LNK

OPT_CLN

FRPORT

TOPORT

A7xx6986 System bus error
Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

If the Serviceable Event View is not available then use the failing item list presented here for servicing this reference code.

FRU List:
TWRCARD

PWRCBL

A7xx6987 High Speed Link (HSL) connection failure

Service Response:
Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

If the Serviceable Event View is not available then use the failing item list presented here for servicing this reference code.

FRU List:
HSL_LNK

OPT_CLN

A7xx6990 Service processor failure

Service Response:
Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

If the Serviceable Event View is not available then use the failing item list presented here for servicing this reference code.

FRU List:
SVCPROC

A7xx6991 Platform LIC failure

Service Response:
Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:
LICCODE

A7xx6993 Service processor failure

Service Response:
Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

If the ServiceableEvent View is not available then use the failing item list presented here for servicing this reference code.

FRU List:
SVCPROC

LICCODE

A7xx6994 Service processor failure

Service Response:
Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

If the ServiceableEvent View is not available then use the failing item list presented here for servicing this reference code.

FRU List:
SVCPROC

A7xx6995 User intervention required

Service Response:
The system is in the process of terminating.

When all the partitions have terminated, an SRC indicating the exact cause will be shown on the operator panel.

If the system does not terminate in a reasonable amount of time, one or more partitions may need to be terminated manually. If this is not possible, re-IPL the system and look for errors. If no errors are found, contact your next level of support.

A7xx69C2 System log entry only, no service action required

Service Response:
Information only, no service action required.

HSL OptiConnect normal connection to another system or partition.

HSL OptiConnect established connection normally. The local system or partition is participating in HSL Opticonnect with other systems or partitions on the same HSL loop.

A7xx69C3 System log entry only, no service action required

Service Response:
Information only, no service action required.

Opticonnect normal remote disconnection from OptiConnect participation.

HSL Opticonnect disconnected normally from a remote node. The local system or partition has stopped participating in HSL Opticonnect with the remote system or partition on the same HSL loop. Possible reasons include:

- A remote system or partition went off line due to a normal power off or because HSL Opticonnect became disabled.

A7xx69C6 Platform LIC detected an error**Service Response:**

Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.

The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. The problem, which most likely originates with the remote system or partition, probably requires intervention at the remote system. Examine both the local and remote HSL OptiConnected systems or partitions for problems on this HSL loop.

Possible reasons include: A fatal software or hardware error in the remote system or partition, or a power failure in the remote system.

If a complete HSL loop did not exist before this error occurred, the cause of this error might be a failure or power down in an HSL component between the local system or partition and the remote system or partition. Check for a problem with the following:

- An HSL cable
- The HSL I/O bridge
- Power in an expansion I/O tower or unit on this loop

On the local system or partition, examine the Service Action Log (SAL) or serviceable event view. Look for HSL failures that occurred on the same HSL loop at approximately the same time as this error.

Examine the remote system or partition for problems. If the remote system or partition is powered on and IPL'd, examine the SAL or serviceable event view on the remote system or partition. Look for problems on the same HSL loop that occurred at approximately the same time as this error.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.

When the remote system is IPL'd, it will automatically reconnect with this system or partition. If you find no problems with either the local or the remote systems or partitions, collect all the Product Activity Log (PAL) information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

FRU List:
SVCDOCS

LICCODE

A7xx69C7 Platform LIC detected an error**Service Response:**

Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.

The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. Licensed Internal Code will attempt to recover from the error. Intervention at the local or remote system or partition might be required.

Possible causes include time out, hang, or hardware failure. The problem may be with the local system or partition or the remote system or partition. If a complete HSL loop did not exist before this error occurred, the cause of this error might be a failure or power down in an HSL component between the local system or partition and the remote system or partition. Check for SRCs with FRUs that indicate problems with the following:

- HSL cables
- The HSL I/O bridge
- Power in an expansion I/O tower or unit on this loop

On the local system or partition, examine the SAL or serviceable event view. Look for failures on the same loop or with the Network Interface Controller that occurred at approximately the same time as this error.

Examine the remote system or partition for problems. Correct any HSL or NIC problems you find with the remote and local systems or partitions. If you find no problems with either the local or the remote systems or partitions, collect all the PAL information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

FRU List:
SVCDOCS

LICCODE

A7xx69C8 Platform LIC detected an error**Service Response:**

Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.

The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. All of the HSL OptiConnect connections on this loop will be in a failed state. Licensed Internal Code will attempt to recover from the error. Intervention at the local or remote system or partition might be required. Possible causes are:

- Time out of a critical message
- Licensed Internal Code code / table problem

- Network deadlock detected

The problem may be with:

- The local system or partition
- The remote system or partition

On the local system or partition, examine the SAL or serviceable event view. Look for HSL failures on the same HSL loop or with the Network Interface Controller that occurred at approximately the same time as this error.

Examine the remote system or partition for problems. On the remote system or partition, examine the SAL or serviceable event view. Look for problems on the same HSL loop or with the Network Interface Controller that occurred at approximately the same time as this error.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on all systems or partitions. Be sure to record all words in the SRCs. Contact your next level of support.

FRU List:
SVCDOCS

LICCODE

A7xx69C9 Platform LIC detected an error

Servicer Response:

Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.

The local system or partition disconnected from a remote system or partition due to an failure in a Licensed Internal Code virtualized bus unit. Licensed Internal Code will attempt to recover from the error. Possible causes are:

- Licensed Internal Code problem where the local bus unit is offline.
- Licensed Internal Code problem where the remote bus unit is offline.

On the local system or partition, examine the SAL or the serviceable event view. Look for HSL Opticonnect failures that occurred at approximately the same time as this error.

Examine the remote system or partition for problems. On the remote system or partition, examine the SAL or

the serviceable event view. Look for HSL Opticonnect problems that occurred at approximately the same time as this error.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support.

FRU List:
SVCDOCS

LICCODE

A7xx69CF Platform LIC detected an error

Servicer Response:

Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.

Licensed Internal Code internal error. All systems participating in HSL OptiConnect will be disconnected. You must re-IPL the system to recover. Before re-IPL'ing the system, start a platform dump.

On the local system or partition, after getting the dump, examine the SAL or the serviceable event view. Look for HSL Opticonnect failures that occurred at approximately the same time as this error.

Examine the remote systems or partitions for problems. On the remote systems or partitions, examine the SAL or the serviceable event view. Look for HSL Opticonnect problems that occurred at approximately the same time as this error.

Collect all the PAL information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support.

FRU List:
SVCDOCS

LICCODE

A7xx69D9 Host Ethernet Adapter (HEA) failure.

Servicer Response:

Firmware detected a hardware failure in the Host Ethernet Adapter (HEA).

FRU List:
HEA

A7xx69DA System log entry only, no service action required.

A7xx69DB Platform LIC failure.**Service Response:**

A Platform Licensed Internal Code error occurred. The system will continue to run this Host Ethernet Adapter (HEA) disabled. Perform a platform dump and then IPL the system to recover the HEA. Send the platform dump to your next level of support.

FRU List:
SVCDOCS

A7xx69E1 Host Channel Adapter**Service Response:**

The InfiniBand® Host Channel Adapter has failed.

FRU List:
HCA

A7xx69E2 Platform LIC failure**Service Response:**

An InfiniBand platform licensed internal code error occurred. The system will continue to run with this Host Channel Adapter disabled. Perform a platform dump prior to the IPL on the system. An IPL is required to recover the Host Channel Adapter.

FRU List:
LICCOCODE

A7xx69E3 System log entry only, no service action required**Service Response:**

Part of the HCA chip failed but was not terminating. When thresholded, these errors will result in a B70069E1.

A7xx69E4 An invalid High Speed Link (HSL) configuration was detected**Service Response:**

An error was detected in the InfiniBand fabric. Have the customer check for problems reported at the IBM Network Manager. This includes cases such as path migration, etc.

FRU List:
SVCDOCS

A7xx69E5 System log entry only, no service action required**Service Response:**

An InfiniBand communications error occurred. Unrecognized command from Subnet Manager. Does not require service.

A7xx69E6 System log entry only, no service action required**Service Response:**

The cable connection to the InfiniBand switch is broken. Verify that the cable is connected and the switch is powered on. After repairing the problem, verify that the connection has been restored by using the IBM Network Manager. Does not require service.

A7xx69E7 System log entry only, no service action required**Service Response:**

The cable connection to the InfiniBand switch has been restored. No service action required.

A7xx69E9 System log entry only, no service action required**Service Response:**

Initial communication has occurred with the Subnet Manager. No service action required. The CEC and switch firmware are now communicating.

A7xx69EA System log entry only, no service action required**Service Response:**

Reported when the logical switch receives a setPortInfo for the switch management port that sets a new SM LID. This indicates the point where DMA can report changes in switch port states to SM via a TRAP and also that SM has received and accepted out responses to the initial gets. This proves that there is 2-way communication. Note that this will also tell us when a subnet merge has occurred and a new SM has issued a setPortInfo with an SMLID that differs from the previous one. No service action required.

A7xx69EB User intervention required**Service Response:**

An InfiniBand configuration error was detected by the HCA. Verify that the InfiniBand configuration is correct at the HCA. The Port 1 and 2 configurations conflict.

FRU List:
SVCDOCS

A7xx69EC User intervention required**Service Response:**

An InfiniBand adapter in the server does not support connections to I/O enclosures.

Upgrade the adapter at the location given in the serviceable event view to a new version. Contact support for assistance.

FRU List:

SVCDOS

A7xx69ED RIO 12X link is not operating at optimal bandwidth.
Service Response:

An RIO 12X cable connection initialized to a lower signal frequency. The link is operational but operating at a bandwidth below its rated capacity. This may lead to degraded I/O throughput.

Perform the RIOIP56 procedure.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

FRU List:
SVCDOS

HSL_IB

FRPORT

TOPORT

A7xx69EE I/O unit backplane is not operating at optimal bandwidth.
Service Response:

Replace the I/O unit backplane at your next scheduled maintenance.

FRU List:
TWRBKPL

A7xxBAD1 Platform firmware detected an error
Service Response:

Platform firmware detected unexpected or not valid data returned from non-platform firmware.

Contact your next level of support.

FRU List:
NEXTLVL

A7xxC2AC System log entry only, no service action required
Service Response:

The Capacity on Demand License acceptance has completed. No corrective action is required.

FRU List:
SVCDOS

A7xxF103 Platform LIC failure
Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The platform LIC detected an internal problem.

Collect all the SRC words and the platform system dump, then contact your next level of support.

FRU List:
LICCODE

A7xxF104 Operating System error
Service Response:

Platform Licensed InternalCode terminated a partition.

If SRC word 3 is 0007, then a user may have initiated a function 22 prior to the operating system completing the IPL. If a function 22 was not performed, or if SRC word 3 is not 0007, look for other serviceable errors which occurred at same time frame.

FRU List:
SVCDOS

A7xxF105 Platform LIC detected an error
Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The platform LIC detected an internal problem.

Collect all the SRC words and the platform system dump, then contact your next level of support.

FRU List:
NEXTLVL

A7xxF10A Platform LIC detected an error
Service Response:

Look for errors with SRCs of the form B1xx xxxx in the Serviceable Event View. Work those errors first. If that does not correct the problem, collect all the SRC words and the platform system dump, then contact your next level of support.

FRU List:
SVCDOS

A7xxF10B A resource has been disabled due to hardware problems
Service Response:

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented

here to determine the parts to exchange. The platform detected a problem with a processor. The processor is not functional. Look in the Serviceable Event View for a B1xx xxxx error that implicates a processor. If the Serviceable Event View contains no B1xx xxxx error, or if resolving the error fails to correct the problem, contact your next level of support.

FRU List:

ANYPROC

A7xxF120 Platform firmware detected an error

Servicer Response:

The platform is unable to support the requested architecture options requested by the operating system via ibm, client-architecture-support interface.

(A9xx) Reference codes

A9xx SRCs give information about the user program.

If a Licensed Internal Code error is suspected and the recovery action recommends an IPL, then take a main storage dump to save the error conditions before the customer does an IPL. Support may need the information saved in this dump.

A9002000 If the system displays this SRC code, it usually means that a console was not found by i5/OS.

Servicer Response::

Perform the following action:

1. If the IPL completed normally, does the console have a signon? Note: If the console did not vary on, see Recovering when the console does not show a sign-on display or a menu with a command line.
2. If the system completed the IPL, check the QSYSARB job log for a message, and follow the corrective actions indicated. To view the QSYSARB job log:
 - Use the Work with Active Jobs (WRKACTJOB) command, and then type 5 (Work with) next to the QSYSARB job.
 - Select Option 10 (Display jobs) to view the job log. You need *QSECOFR user class, or *ALLOBJ and *JOBCTL special authority to view the job log.
3. If the problem persists, contact your next level of support or your hardware service provider.

Use the following actions to make more job table entries available:

- Delete unneeded spooled files.
- End unneeded jobs on job queues.
- Change the QMAXJOB system value to increase the maximum number of jobs allowed.
- Remove pending job logs with the Work with Job Logs (WRKJOBLOG) command or with the Remove Pending Job Log (QWTRMVJL) API.

Perform the following actions if you are not already signed on or are unable to sign on:

- Power the system off and perform a manual IPL.
- Use the "Define or Change the System at IPL" menu to change the QMAXJOB system value to increase the maximum number of jobs allowed.

A90036A0 A system job failed. Certain system functions might not be available.

Servicer Response::

Perform the following actions to recover:

- Shut down the system and perform an IPL.
- If the problem persists, contact your next level of support.

A9003610 The system job tables are full for i5/OS.

Servicer Response::

AAxx system reference (attention) codes

Partition firmware posts AAxx system reference (attention) codes, which offer information about the next target state for the platform firmware.

These codes might also indicate that you need to perform an action, such as opening a firmware console or checking serial connections.

Note: Click the failing item in the FRU list only when you experience a hang condition on an attention code. For example, a hang condition occurs when your server performs a requested action but the SRC in the control panel display does not change for several minutes and the partition firmware appears to be hung.

AA00E158 **Waiting for virtual terminal (VTERM) to be opened on the HMC.**

Service Response::

1. Open a virtual terminal window (vterm) on the HMC.
2. Close the existing terminal window (vterm) and reopen.
3. If there's no need to access the SMS menus, go to the ASMI, and do the following:
 - a. Select **Power/Restart Control**, then **Power On/Off System**.
 - b. Select **Continue to operating system** under the option labeled **AIX®/Linux® partition mode boot**.

AA00E159 **Waiting for serial connection to the service processor to be established**

Service Response::

Check the serial connection to the service processor. Correct any problems that are found.

AA00E175 **The I/O configuration exceeds the recommended size. Some operating systems might crash when using this configuration.**

Service Response::

Increase the logical memory block (LMB) size to 256 MB and reboot the managed system.

Note: Contact the next level of support if the LMB size is already 256 MB.

FRU List:
FWFLASH

AA00E1A8 **The system is booting to the open firmware prompt**

FRU List:
FWFLASH

AA00E1A9 **The system is booting to the SMS menus**

Service Response::

Note: If the system or partition returned to the SMS menus (as indicated by this progress code) after a boot attempt failed, use the ASMI menus to look at the progress code history.

- Look for a BAxx xxxx reference (error) code, which might indicate why the boot attempt failed. If you find a BAxx xxxx error code, see "(BAxx) Partition Firmware Reference (Error) Codes" to find the code, then follow the actions indicated to resolve the boot problem.

- If you do not find a BAxx xxxx error code, see "Problems With Loading and Starting the Operating System" (for AIX and Linux) to resolve the boot problem.

FRU List:
FWFLASH

AA00E1B0 **Waiting for the user to select language and keyboard.**

Service Response::

Select the language and keyboard.

AA00E1B1 **Waiting for the user to accept or decline the license agreement.**

Service Response::

Accept or decline the license agreement.

AA00E1F3 **Admin access password prompt**

Service Response::

On the firmware console, enter the password for the admin user of the ASMI.

FRU List:
FWPWD

AA060007 **A keyboard was not found**

Service Response::

Ensure that a keyboard is attached to a USB port assigned to the partition.

AA06000B **The system or partition was not able to find an operating system on any of the devices in the boot list.**

Service Response::

Modify the boot list using the SMS menus so that it includes devices that are known to have a good copy of the operating system and retry the boot. If you are still unable to boot an operating system, go to "Problems With Loading and Starting the Operating System".

AA06000C **The media specified in a device in the bootlist was not bootable**

Service Response::

Replace the media in the device with known-good media, or modify the boot list to boot from another bootable device. If you are still unable to boot an operating system, go to "Problems With Loading and Starting the Operating System".

AA06000D The media in the device in the bootlist not found under the I/O adapter specified by the boot list.

Servicer Response::

Verify that the medium (CD-ROM, for example) from which you are trying to boot is bootable, or try another medium. If you are still unable to boot an operating system or diagnostic CD-ROM, go to "Problems With Loading and Starting the Operating System".

AA06000E The adapter specified in the boot list is not present or not functioning.

Servicer Response::

If AIX is being booted, and can be booted from another device, do so, then run online AIX diagnostics against the failing adapter. If AIX cannot be booted from another device, boot standalone AIX diagnostics from CD-ROM or a NIM server and run diagnostics against the device.

If Linux is being booted, boot standalone AIX diagnostics from CD-ROM or a NIM server and run diagnostics against the device.

AA060010 The FAT filesystem on the bootdisk is configured in a way that may cause a boot failure.

Servicer Response::

Increase the FAT partition size by 10% to keep the number of data clusters fewer than 4080.

AA060011 The firmware did not find the operating system image and is was unable to detect at least one hard disk in the boot list. Firmware is now retrying the entries in the boot list. This often occurs when the boot disk enclosure is not yet fully initialized or if the boot disk belongs to a server partition.

User response:

This error might occur before the initialization of an enclosure that contains the boot disk is complete or when the boot disk belongs to another partition.

If this problem persists, do the following:

1. Verify that the boot disk belongs to the partition that is being booted.
2. Verify that the boot list in the SMS menus is correct.

AA100001 The hypervisor failed to send an LP event to the partition firmware.

Servicer Response::

Reboot the system. If the problem persists, do the following:

1. Check the error log for other SRCs that were logged around the time of this SRC. If other SRCs are found, resolve those, then reboot the system. If the problem is not resolved, go to the next step.
2. Check for system firmware updates and apply if available.
3. Contact your next level of support.

AA100002 A bad return code was received when the LP event acknowledgement was received from the hypervisor.

Servicer Response::

Reboot the system. If the problem persists, do the following:

1. Check the error log for other SRCs that were logged around the time of this SRC. If other SRCs are found, resolve those, then reboot the system. If the problem is not resolved, go to the next step.
2. Check for system firmware updates and apply if available.
3. Contact your next level of support.

AA130013 Bootable media is missing from a USB-attached CD-ROM.

Servicer Response::

Put a bootable CD in the USB CD-ROM drive and retry the boot operation.

AA130014 The media in the USB CD-ROM drive has been changed.

Servicer Response::

1. Retry the operation.
2. Check for system firmware updates; apply if available, then retry the operation.

AA170210 Setenv/\$setenv parameter error - the name contains a null character.

Servicer Response::

Refer to the 'NVRAM problems' section below

FRU List:

FWFLASH

AA170211 Setenv/\$Setenv parameter error - value contains a null character

Servicer Response::

Refer to the 'NVRAM problems' section below.

FRU List:

FWFLASH

AA190001 The server firmware function to get and set the time-of-day reported an error.

Servicer Response::

1. Use the operating system utility to set the system clock.
2. If the problem persists, check for server firmware updates and apply if available.

AA260001 The firmware is waiting for someone to enter the machine type, model, and serial number.

Servicer Response::

At the firmware prompt, enter the machine type, model, and serial number of the system.

AA260002 The system is waiting for the serial number to be entered.

Servicer Response:

Enter the serial number of the system at the prompt

AA260003 The system is waiting for the system unique ID number to be entered.

Servicer Response:

Enter the system unique ID number at the prompt.

AA260004 The system is waiting for the worldwide port number to be entered.

Servicer Response:

Enter the worldwide port number at the prompt.

AA260005 The system is waiting for the brand number to be entered.

Servicer Response:

Enter the brand number at the prompt.

Appendix. Accessibility features

Accessibility features help users who have a physical disability, such as restricted mobility or limited vision, to use information technology products successfully.

The following list includes the major accessibility features:

- Keyboard-only operation
- Interfaces that are commonly used by screen readers
- Keys that are tactilely discernible and do not activate just by touching them
- Industry-standard devices for ports and connectors
- The attachment of alternative input and output devices

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Avis de conformité à la réglementation d'Industrie Canada

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European Community contact:
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IBM Taiwan Contact Information:

台灣IBM 產品服務聯絡方式：
台灣國際商業機器股份有限公司
台北市松仁路7號3樓
電話：0800-016-888

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EN 55022 Klasse A Geräte müssen mit folgendem Warnhinweis versehen werden:

"Warnung: Dieses ist eine Einrichtung der Klasse A. Diese Einrichtung kann im Wohnbereich Funk-Störungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen zu ergreifen und dafür aufzukommen."

Deutschland: Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit von Geräten

Dieses Produkt entspricht dem "Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG)". Dies ist die Umsetzung der EU-Richtlinie 2004/108/EG in der Bundesrepublik Deutschland.

Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG) (bzw. der EMC EG Richtlinie 2004/108/EG) für Geräte der Klasse A.

Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen.

Verantwortlich für die Konformitätserklärung nach des EMVG ist die IBM Deutschland GmbH, 70548 Stuttgart.

Generelle Informationen:

Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022 Klasse A.

Electromagnetic Interference (EMI) Statement - Russia

ВНИМАНИЕ! Настоящее изделие относится к классу А.
В жилых помещениях оно может создавать
радиопомехи, для снижения которых необходимы
дополнительные меры

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