



# SPARC® Enterprise M4000/M5000 Servers Product Notes

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For XCP version 1040

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# Preface

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These product notes contain late-breaking information about the SPARC® Enterprise M4000/M5000 server hardware, software, or documentation that became known after the documentation set was published. For the changes since previous version, see [“Revision History” on page ix](#).

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## Technical Support

If you have technical questions or issues that are not addressed in the SPARC Enterprise M4000/M5000 servers documentation, contact a sales representative or a certified service engineer.

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## Software Resources

The Solaris™ Operating System and Sun Java™ Enterprise System software are preinstalled on your SPARC Enterprise M4000/M5000 servers.

Contact a sales representative or a certified service engineer for software resources for your SPARC Enterprise M4000/M5000 servers.

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**Note** – For latest patch information go to:

**Global Site**

<http://www.fujitsu.com/global/support/software/security/products-s/patch-info/>

**Japanese Site**

<http://software.fujitsu.com/jp/security/products-others/unix/index.html>

**North American Site**

<https://download.computers.us.fujitsu.com/>

Installation information and README files are included in the patch download.

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## Accessing Documentation

Instructions for installing, administering, and using your SPARC Enterprise M4000/M5000 servers are provided in the SPARC Enterprise M4000/M5000 servers documentation set.

The documentation set is available for download from the following website:

**Global Site**

<http://www.fujitsu.com/sparcenterprise/manual/>

**Japanese Site**

<http://primeserver.fujitsu.com/sparcenterprise/manual/>

**North American Site**

<https://download.computers.us.fujitsu.com/>

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**Note** – Information in these product notes supersedes the information in the SPARC Enterprise M4000/M5000 servers documentation set.

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Solaris documentation is available at:

<http://www.sun.com/documentation>



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# Fujitsu Welcomes Your Comments

If you have any comments or requests regarding this manual, or if you find any unclear statements in the manual, please state your points specifically, and forward it to a sales representative or a certified service engineer.

Please include the title and part number of your document with your feedback.

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# Revision History

| <b>Edition</b> | <b>Revised Section</b>         | <b>Details</b>  |
|----------------|--------------------------------|---|
| 05             | Hardware Documentation Updates | Addition of description in Hardware Documentation Updates |
|                | Solaris Issues and Workarounds | Modification of workaround for CR ID 6459540              |



# SPARC Enterprise M4000/M5000 Servers Product Notes

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These product notes contain late-breaking information about the SPARC® Enterprise M4000/M5000 server hardware, software, or documentation that became known after the documentation set was published.

- [Supported Versions of Firmware and Software](#)
- [Patch Information](#)
- [Known Issues](#)
- [Hardware Installation and Service Issues](#)
- [Hardware Documentation Updates](#)
- [Software Issues](#)
- [Software Documentation Updates](#)

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## Supported Versions of Firmware and Software

The following firmware and software versions are supported in this release:

- XSCF Control Package (XCP) 1040 or later

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**Note** – When the XCP version preinstalled in your server is under XCP 1040, you must upgrade to XSCF Control Package(XCP) 1040 or later. Use the web browser interface, also known as the browser user interface (BUI), to import XCP firmware and then execute the `flashupdate` command to upgrade the XCP firmware with the XSCF Shell.

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**Caution** – CR ID #6534471: Improper handling of large page in kernel memory may cause random panics. Implement the workaround for CR ID #6534471 or check for the availability of a patch and install it immediately.

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- The first version of the Solaris™ Operating System (OS) to support these servers is the Solaris 10 11/06 OS.

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## Patch Information

This section lists mandatory patches for the SPARC Enterprise M4000/M5000 servers.

- 118833-36 (Install 118833-36 before 125100-04.)
- 125100-04 or later
- 120068-03 or later
- 123839-07 or later
- 125424-01 or later
- 125075-01 or later

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**Note** – See [“Software Resources” on page vii](#) for information on how to find the latest patches. Installation information and README files are included in the patch download.

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# Known Issues

This section describes known issues in this release.

## General Functionality Issues and Limitations

- Dynamic Reconfiguration (DR) is not recommended in cases below, due to the following restrictions on the DR addboard, deleteboard, and moveboard commands. Please contact your Sales representative or Technical Support for additional information and software support.
  - The target board (SB/XSB) with permanent memory. See [“Identifying Permanent Memory in a Target Board”](#) on page 27.
  - The target board (SB/XSB) with optional I/O cards because of some restrictions on specific cards.



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**Caution** – Use of DR in an unsupported configuration might result in a domain panic or might hang the system.

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- Domains using the ZFS file system can not use Reconfiguration.
- PCI Hot-plug feature is not available for this release. Please contact your sales representative or technical support for additional information and software support.
- SPARC Enterprise M4000/M5000 servers are cold service machines. Hot-swapping of the CPU/Memory board unit (CMU), I/O Unit (IOU), or any eXtended System Control Facility (XSCF) unit is not supported.
- The XSCF web browser interface, also known as the browser user interface (BUI), has limited availability in this release. It can be used for importing the XSCF firmware and it supports the snapshot Full log set collection function. Use the command-line interface (CLI) instead on the Service Processor and the domains for other activities.
- Capacity on Demand (COD) is not supported.
- Power off all domains before upgrading the XCP firmware.

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# Hardware Installation and Service Issues

This section describes hardware specific issues and workarounds.

## Specific Issues and Workarounds

[TABLE 1](#) lists known hardware issues and possible workarounds.

**TABLE 1** Hardware Issues and Workarounds

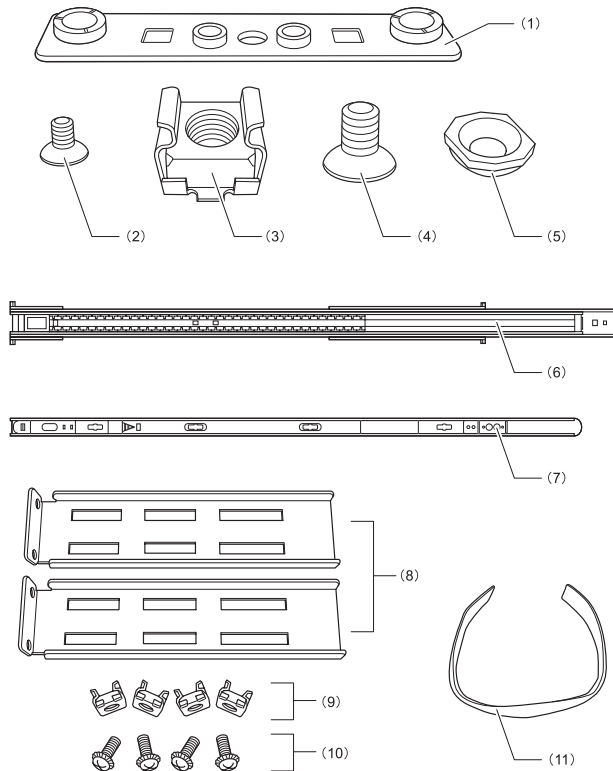
| CR ID   | Description  | Workaround   |
|---------|--|--|
| 6433420 | The domain console might display a Mailbox timeout or IOCB interrupt timeout error during boot.  | Issue a <code>reset-all</code> command from the OBP (OK) prompt and reboot.                                |
| 6488846 | During boot, the domain console might display a checksum error for the SG(X)PCI2SCSIU320-Z SCSI controller I/O card.   | Check for the availability of the latest controller card firmware.   |
| 6498780 | On the SPARC Enterprise M4000/M5000 servers, the OpenBoot. PROM (OBP) might not detect the on-board disk (HDD) boot device. Performing a <code>boot disk</code> results in a console message:<br><code>Can't locate boot device</code> | The PCI or PCI-X plug-in adapter card might not be seated correctly. Reseat the card in slot 0 of the IOU. |

# Cautions for mounting the server in the 19-inch rack

## About the parts which should be used

To mount the server in the 19-inch rack, use the parts shown on the following mount kit list.

### ■ 19-inch rack mount kit list (M4000)



|      | Parts name          | Required number |
|------|---------------------|-----------------|
| 1    | bracket             | 4               |
| 2    | M2.5 flathead screw | 8               |
| 3, 9 | M5 gauge nut        | 8               |

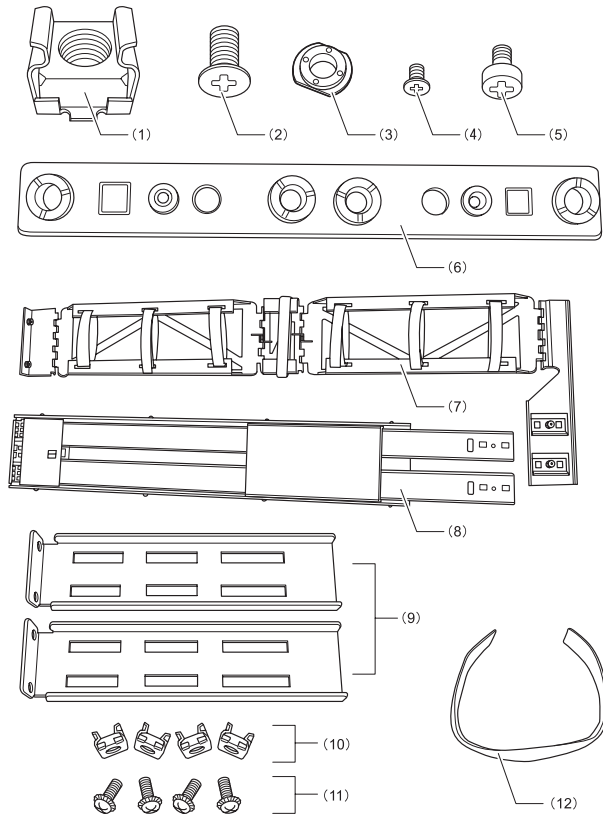
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|    | <b>Parts name</b> | <b>Required number</b> |
|----|-------------------|------------------------|
| 4  | M5 flathead screw | 8                      |
| 5  | washer            | 8                      |
| 6  | slide rail        | 2                      |
| 7  | inner rail        | 2                      |
| 8  | cable bracket     | 2                      |
| 10 | M5 screw          | 4                      |
| 11 | cable tie         |                        |

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■ 19-inch rack mount kit list (M5000)



|       | Parts name          | Required number |
|-------|---------------------|-----------------|
| 1, 10 | M5 gauge nut        | 8               |
| 2     | M5 flathead screw   | 16              |
| 3     | washer              | 16              |
| 4     | M2.5 flathead screw | 8               |
| 5     | M4 screw            | 6               |
| 6     | bracket             | 4               |
| 7     | slide rail          | 1               |
| 8     | bracket             | 2               |

|    | <b>Parts name</b> | <b>Required number</b> |
|----|-------------------|------------------------|
| 9  | cable bracket     | 2                      |
| 10 | M5 screw          | 4                      |
| 11 | cable tie         |                        |

Note - About the cable management of M5000 server

On the SPARC Enterprise M5000 server, use a different cable clamp depending on whether or not the Copper link cable connected.

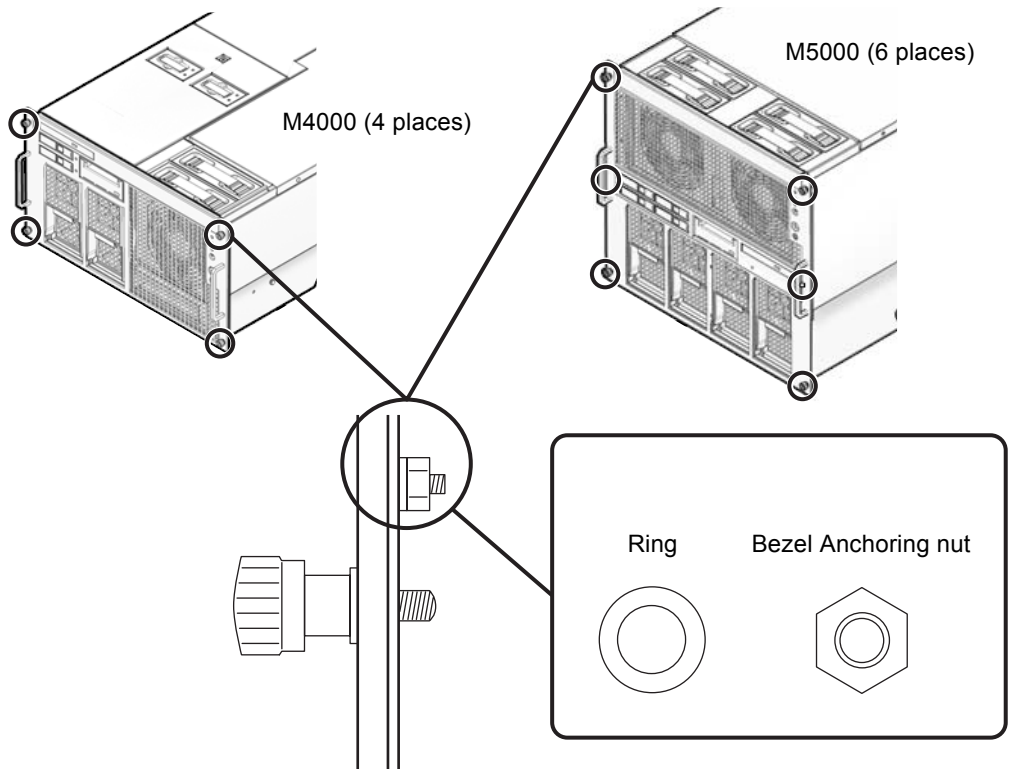
- When the Copper link cable is not used, use the cable support arm.
- When the Copper link cable is used, use the cable bracket.

## About the interference of nut

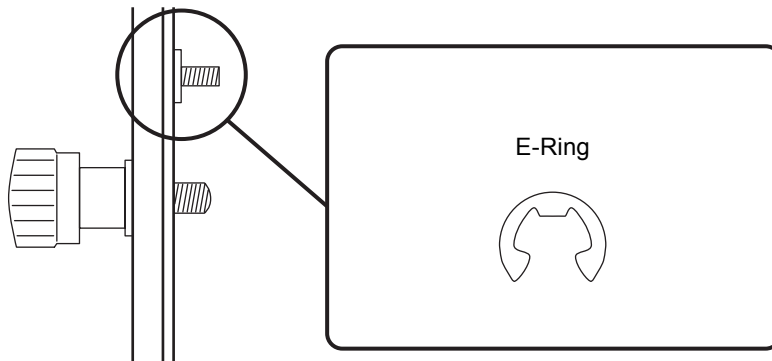
When you mount the SPARC Enterprise M4000 or M5000 server on the 19-inch rack, as you insert it all the way seated in the rack, the nut anchoring the bezel may interfere with the rack column and the server may fail to be seated correctly.

In such a case, please replace the bezel anchoring nut and ring with the E-Ring.

### 1. Remove the interfering bezel anchoring nut and ring.



2. In place of the removed nut and ring, attach the E-Ring, included in the rack mount kit.




3. Insert the server all the way seated in the rack, to lock it in place.


# Hardware Documentation Updates

TABLE 2 lists known documentation updates.

**TABLE 2** Documentation Updates

| Title  | Page Number | Update  |
|--|-------------|---|
| All SPARC Enterprise M4000/M5000 servers documentation   |             | All DVD references are now referred to as CD-RW/DVD-RW.   |
| SPARC Enterprise M4000/M5000 Servers Site Planning Guide | 1-7         | TABLE 1-3 "Midrange Servers Physical Specifications"<br>Correct numerical value of "Depth" is 810mm/31.9 in. for the SPARC Enterprise M4000/M5000 servers.  |
| SPARC Enterprise M4000/M5000 Servers Site Planning Guide | 2-4         | TABLE 2-2 "Midrange Servers Electrical Specifications"<br>See " <a href="#">Electrical Specifications</a> " on page 14 for the changes.   |
| SPARC Enterprise M4000/M5000 Servers Installation Guide  | 2-8         | TABLE 2-3 "Powercords"<br>See " <a href="#">Cable Connections</a> " on page 15 for the changes.   |
| SPARC Enterprise M4000/M5000 Servers Service Manual      | 1-4         | 1.3.4, "Handling Components"<br>The following caution will be added.  |
|  |             |   |
|  |             | <p><b>Caution</b> – In the PCI cassette part, when removing cables such as LAN cable, if your finger can't reach the latch lock of the connector, press the latch with a flathead screwdriver to remove the cable. Forcing your finger into the clearance can cause damage to the PCI card.</p> |
| SPARC Enterprise M4000/M5000 Servers Service Manual      | 4-11        | 4.4.3, "Powering the Server Off Manually" Step 4<br>"Verify the state of the status XSCF STANDBY LED on the operator panel is off" should be replaced with the following description: "Verify the state of the status Power LED on the operator panel is off."                                  |

**TABLE 2** Documentation Updates (*Continued*)

| Title   | Page Number | Update   |
|---|-------------|--|
| SPARC Enterprise M4000/M5000 Servers Service Manual | 8-5         | <p>8.1.2, "Removing the PCI Cassette"</p> <p>The cable management arm of the SPARC Enterprise M4000 server will not be supported. The following note will be deleted accordingly.</p> <p>Note - The cable management arm of the SPARC Enterprise M4000 server might obstruct access to the PCI cassettes. Do not force the arm out of the way of the cassettes, because it will become permanently bent. Pull the quick release button and disconnect the slide end of the arm. Once disconnected, the arm can be safely held out of the way when removing the cassettes.</p> <p>Instead, the following caution will be added.</p> |
|   |             | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  </div> <div> <p><b>Caution</b> – When removing cables such as LAN cable, if your finger can't reach the latch lock of the connector, press the latch with a flathead screwdriver to remove the cable. Forcing your finger into the clearance can cause damage to the PCI card.</p> </div> </div>   |
| SPARC Enterprise M4000/M5000 Servers Service Manual | 8-6         | <p>8.1.3, "Installing the PCI Cassette"</p> <p>See <a href="#">"Installing the PCI Cassette"</a> on page 16 for the changes.</p>   |
| SPARC Enterprise M4000/M5000 Servers Service Manual |             | <p>"Cold Replacement"</p> <p>"This step includes turning the keyswitch to the Service position, verifying the state of the LEDs and disconnecting power cables" should be substituted with the following description: "This step includes turning the keyswitch to the Service position, verifying that the Power LED is turned off and disconnecting power cables."</p>   |

**TABLE 2** Documentation Updates (*Continued*)

| Title   | Page Number | Update   |
|---|-------------|--|
| SPARC Enterprise<br>M4000/M5000 Servers<br>Service Manual   | 9-1<br>15-1 | CHAPTER 9, "XSCF Unit Replacement"<br>CHAPTER 15, "Operator Panel Replacement"<br>The following important message will be added. |
| <hr/> <b>Note</b> – If you replace the XSCF unit and the operator panel simultaneously, system will not operate normally. Execute the <code>showhardconf</code> command or the <code>showstatus</code> command to confirm that the component replaced earlier is operating normally, before replacing the subsequent FRU. <hr/> |             |  |
| SPARC Enterprise<br>M4000/M5000 Servers<br>Service Manual   | 11-7        | 11.2, "DIMM Replacement"<br>See " <a href="#">DIMM Replacement</a> " on page 17 for the changes.                                 |
| SPARC Enterprise<br>M4000/M5000 Servers<br>Service Manual   | C-7         | TABLE C-5 "Power Supply Feature"<br>See " <a href="#">Electrical Specifications</a> " on page 14 for the changes.                |

## Electrical Specifications

The following changes belong in the *SPARC Enterprise M4000/M5000 Servers Site Planning Guide*.

**TABLE 3** Midrange Servers Electrical Specifications

|                         | <b>SPARC Enterprise M4000</b>  | <b>SPARC Enterprise M5000</b>  |
|-------------------------|--|--|
| <b>Power draw</b>       | 2016W  | 3738W  |
| <b>Volt Ampere</b>      | 2058 VA  | 3815 VA  |
| <b>Heat dissipation</b> | 6879 BTUs/hr (7258 kJ/hr)  | 12754 BTUs/hr (13457 kJ/hr)  |
| <b>Plug type</b>        | IEC60320 C20<br>IEC60309 16A 250V (All other locations except Japan, Korea, and Taiwan)<br>NEMA L5-15 125V 15A (Americas and Taiwan)<br>NEMA L6-20 250V 20A (Americas, Japan, Korea, and Taiwan) | IEC60320 C20<br>IEC60309 16A 250V (All other locations except Japan, Korea, and Taiwan)<br>NEMA L5-15 125V 15A (Americas and Taiwan)<br>NEMA L6-20 250V 20A, Americas, Japan, Korea, and Taiwan) |

The following changes belong in the *SPARC Enterprise M4000/M5000 Servers Service Manual*.

**TABLE 4** Power Supply Features

|                             | <b>SPARC Enterprise M4000</b> | <b>SPARC Enterprise M5000</b> |
|-----------------------------|-------------------------------|-------------------------------|
| <b>Power draw (maximum)</b> | 2016W                         | 3738W                         |
| <b>Volt Ampere</b>          | 2058 VA                       | 3815 VA                       |
| <b>Heat</b>                 | 6879 BTUs/hr (7258 kJ/hr)     | 12754 BTUs/hr (13457 kJ/hr)   |



## Cable Connections

The following changes belong in the SPARC Enterprise M4000/M5000 Servers Installation Guide.

**TABLE 5** Powercords

|                                  | <b>SPARC Enterprise M4000</b> | <b>SPARC Enterprise M5000</b>           |
|----------------------------------|-------------------------------|---|
| SPARC Enterprise M4000 Connector | Americas, Taiwan              | NEMA L5-15 125V 15A                     |
|                                  | Japan, Korea                  | NEMA L6-20 250V 20A                     |
|                                  | RoTW                          | IEC60309 16A 250V, 3PIN with IEC320 C20 |
| SPARC Enterprise M5000 Connector | Americas, Taiwan              | NEMA L5-15 125V 15A                     |
|                                  | Japan, Korea                  | NEMA L6-20 250V 20A                     |
|                                  | RoTW                          | IEC60309 16A 250V, 3PIN with IEC320 C20 |

# Updates of the SPARC Enterprise M4000/M5000 Servers Service Manual

The following information supersedes the information in the *SPARC Enterprise M4000/M5000 Servers Service Manual*.

## Installing the PCI Cassette



---

**Caution** – Do *not* force the PCI cassette into a slot. Doing so can cause damage to the cassette and server.

---

1. **Align the PCI cassette on the gray plastic guide and install it into the slot.**
2. **Lock the lever into place to seat the cassette.**

---

**Note** – As the lever is moved pressure will build up, then just prior to locking into place the pressure will suddenly release. If the lever locks in place without the pressure release, the card may not be seated correctly. If this happens the card should be removed and reinstalled.

---

---

**Note** – When you insert the PCI cassette using hot-swap, the cassette is automatically powered on and configured. Check that the power LED on the cassette is LIT to be certain the cassette is correctly seated.

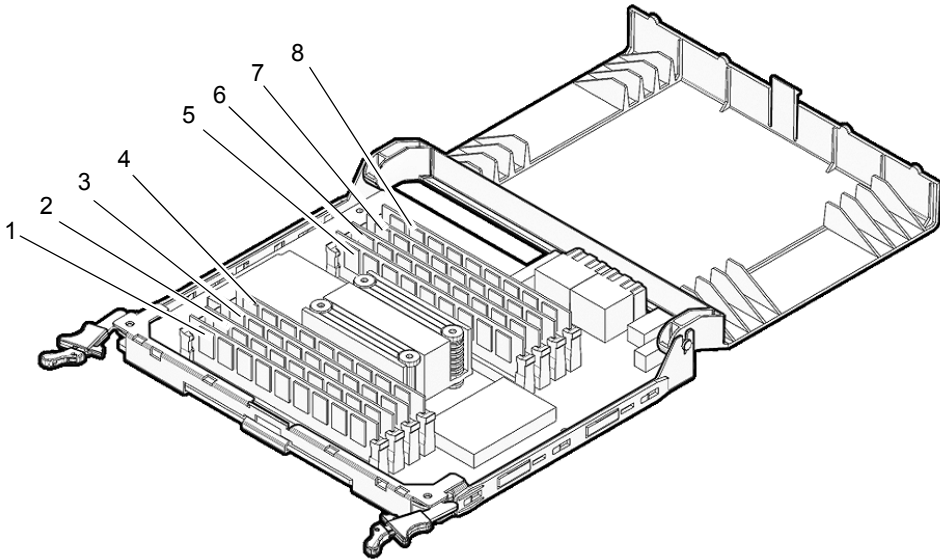
---

3. **Connect all cables to the PCI cassette and reconnect the cable management arm if necessary.**

## DIMM Replacement

The DIMMs are cold FRU replacement components. The entire server must be powered off and the power cords disconnected to replace the DIMMs.

**FIGURE 1** shows the memory board memory slot locations.



**FIGURE 1** Memory Board DIMM Slot Numbering

| Location Number | Component                     |
|-----------------|-------------------------------|
| 1               | MEM#2A, Memory Slot (Group A) |
| 2               | MEM#2B, Memory Slot (Group B) |
| 3               | MEM#3A, Memory Slot (Group A) |
| 4               | MEM#3B, Memory Slot (Group B) |
| 5               | MEM#1B, Memory Slot (Group B) |
| 6               | MEM#1A, Memory Slot (Group A) |
| 7               | MEM#0B, Memory Slot (Group B) |
| 8               | MEM#0A, Memory Slot (Group A) |

You can mount up to 4 memory boards on the SPARC Enterprise M4000 server and up to 8 memory boards on the SPARC Enterprise M5000 server. The DIMMs on the memory board are grouped into group A and group B.

Here are the DIMM mount conditions:

- In each group, 4 DIMMs are mounted in a unit.
- The capacity of the DIMMs in group A must be equal to or larger than the capacity of the DIMMs in group B. You need not necessarily mount DIMMs in group B.
- In each of the groups, mount the DIMM of same capacity and of same rank. The DIMMs of different capacity can't be mixed in a group.

To replace with the DIMMs of different capacity or different rank, you need to follow the above conditions on every memory board in the same CMU.

---

# Software Issues

This section describes software specific issues and workarounds.

## XCP Issues and Workarounds

[TABLE 6](#) lists known XCP issues and possible workarounds.

**TABLE 6** XCP Issues and Workarounds (1 of 2)

| ID               | Description  | Workaround  |
|------------------|--|---|
| RTIF1-070418-004 | All domains must be powered off before upgrading the XCP firmware.   | Power off domains before using the <code>flashupdate</code> command to upgrade XCP firmware.  |
| RTIF1-070418-005 | If you log in to the XSCF while it is still booting, you may get a <code>bash\$</code> prompt instead of the <code>XSCF&gt;</code> prompt, and be unable to perform most operations. | Log out of the <code>bash\$</code> prompt and wait for the XSCF to finish booting.  |
| RTIF1-070418-009 | While XSCF is running, error message of "OOM kill" might be displayed to XSCF console, and process may go down and/or watchdog timeout may occur and XSCF may reboot.                | Check that XSCF is started. If not started, use the <code>rebootxscf(8)</code> command to restart XSCF, or stop all the domains and then execute the system power off/on (AC OFF/ON). |
| RTIF1-070418-010 | The <code>showdomainstatus -a</code> command shows domain status as Powered Off, but the <code>showboards -a</code> command shows the domain is testing.                             | Use the <code>showboards</code> command to check the status of system power.<br>The <code>showdomainstatus</code> command takes a longer time to show the correct status.             |
| RTIF1-070418-011 | Some commands that update configuration data take a relatively long time to execute.   | Do not cancel <code>set*</code> commands. They appear to hang, but eventually complete in about 30 seconds.   |
| RTIF1-070418-012 | The fault ( <code>memory.block.ue</code> ) is encountered and reported periodically.   | An uncorrectable error exists in a DIMM and the DIMM should be replaced.  |
| RTIF1-070418-021 | Attempting to move a COD board using the <code>moveboard(8)</code> command may fail.   | Use the <code>deleteboard</code> and <code>addboard</code> commands instead of the <code>moveboard</code> command.  |

**TABLE 6** XCP Issues and Workarounds (2 of 2)

| ID               | Description  | Workaround   |
|------------------|--|--|
| RTIF1-070418-022 | The XSCF firmware monitors itself and if it detects any anomalies, it will force a reboot.                                       | Allow the XSCF Unit to finish rebooting. It will return to normal operation within approximately 5 minutes.            |
| RTIF1-070418-023 | Using the <code>rebootxscf</code> command may result in a process down error, and possibly an FMA event with MSG ID SCF-8005-NE. | Ignore this event.   |
| RTIF1-070418-025 | <code>showaudit all</code> shows a long list of defaults in the policy section after the database is cleared.                    | Update the database with the following:<br><code>setaudit -a opl=enable</code><br><code>setaudit -a opl=default</code> |

## Solaris Issues and Workarounds

[TABLE 7](#) lists known issues and possible workarounds.

**TABLE 7** Specific Issues and Workarounds Concerning Solaris

| CR ID   | Description  | Workaround   |
|---------|--|--|
| 6416224 | System performance can degrade using a single NIC card with more than 5,000 connections.   | Use multiple NIC cards to split network connections.   |
| 6440061 | The domain console may display this message:<br><code>ipsec_check_inbound_policy: Policy Failure for the incoming packet (not secure)</code> | This message can be safely ignored.  |
| 6441349 | The system may hang if there is an I/O error in the system.  | None available at this time.   |
| 6459540 | The DAT72 internal tape drive on SPARC Enterprise M4000/M5000 may time out during tape operations.   | Add the following definition to <code>/kernel/drv/st.conf</code> :<br><br><pre>tape-config-list = "SEAGATE_DAT    DAT72-000", "SEAGATE_DAT___DAT72-000", "SEAGATE_DAT___DAT72-000"; SEAGATE_DAT___DAT72-000= 1, 0x34, 0, 0x9639, 4, 0x00, 0x8c, 0x8c, 0x8c, 3;</pre> |

**TABLE 7** Specific Issues and Workarounds Concerning Solaris (Continued)

| CR ID   | Description  | Workaround   |
|---------|--|--|
| 6466617 | Performing a hot plug operation with the PCI-E slot too quickly interrupts a PCI leaf reset and fails, creating a <code>cfgadm(1M): Component system is busy</code> error.   | Pause a few seconds between the issue of each <code>cfgadm -c</code> command.  |
| 6472153 | If you create a Solaris install image or boot image on a non-SPARC Enterprise Mx000 server and use it on a SPARC Enterprise Mx000 sun4u server, the console's TTY flags will not be set correctly. This may cause the console to hang. | Telnet into the SPARC Enterprise Mx000 server to reset the console's TTY flags as follows:<br><pre># sttydefs -r console # sttydefs -a console -i "9600 hupcl opost onlcr crtscts" -f "9600"</pre>   |
| 6481002 | Installing the Solaris from the network using certain PCI-Express cards may cause a panic.   | If you are using a Sun PCI-E Dual Gigabit Ethernet Adapter MMF card or a Sun PCI-E Dual Gigabit Ethernet Adapter UTP card, do not install the Solaris using either of these cards. Instead, use other network devices, such as the onboard Gigabit Ethernet or another network device. |
| 6485555 | On the SPARC Enterprise M4000/M5000 servers, On-board Gigabit Ethernet NVRAM corruption could occur due to a race condition. The window of opportunity for this race condition is very small.  | None available at this time.   |

**TABLE 7** Specific Issues and Workarounds Concerning Solaris (*Continued*)

| CR ID   | Description  | Workaround  |
|---------|--|---|
| 6496337 | <p>The "cpumem-diagnosis" module may fail to load after uncorrectable error(UE) panic. Systems will function correctly but events normally automatically diagnosed by FMA using this module will require manual diagnosis.</p> <p>Example:</p> <p>SUNW-MSG-ID: FMD-8000-2K, TYPE: Defect, VER: 1, SEVERITY: Minor<br/> EVENT-TIME: Thu Feb 15 15:46:57 JST 2007<br/> PLATFORM: SUNW, SPARC-Enterprise, CSN: BE80601007, HOSTNAME: col2-ff-em7-d0</p> | <p>If problem occurred, implement the following workaround:</p> <ol style="list-style-type: none"> <li>1. Remove the following file.<br/> <pre># rm /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis</pre> </li> <li>2. Restart fmd service.<br/> <pre># svcadm restart fmd</pre> </li> </ol> <p>To avoid this problem in advance, add "rm -f /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis" in /lib/svc/method/svc-dumpadm file as below.</p> <pre># # We haven't run savecore on a dump device yet # savedev=none  rm -f /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis  #</pre> |
| 6498283 | <p>Using the DR deleteboard command while psradm operations are running on a domain might cause a system panic.</p>  | <p>There is no workaround. Check for the availability of a patch for this defect.</p>   |
| 6499304 | <p>CPU isn't offlined and unexpected message is displayed on console when many correctable error(CE) occurs.</p> <p>Example:</p> <p>SUNW-MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor<br/> EVENT-TIME: Fri Feb 2 18:31:07 JST 2007<br/> PLATFORM: SPARC-Enterprise, CSN: BE80601035, HOSTNAME: FF2-35-0</p>  | <p>Check CPU status on XSCF.</p>  |



**TABLE 7** Specific Issues and Workarounds Concerning Solaris (Continued)

| CR ID   | Description  | Workaround  |
|---------|--|---|
| 6502204 | <p>Unexpected error messages may be displayed on console on booting after CPU UE panic.</p> <p>Example:</p> <pre>SUNW-MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Tue Jan 9 20:45:08 JST 2007 PLATFORM: SUNW,SPARC-Enterprise, CSN: 2030636002, HOSTNAME: P2-DC1- 16-d0</pre> | If you see unexpected messages, check system status on XSCF.  |
| 6502750 | Notification message for inserted or removed card by PCI hotplug may not output.   | None available at this time.  |
| 6505921 | Correctable error on the system PCIe bus controller generates an invalid fault.  | Create a file <code>/etc/fm/fmd/fmd.conf</code> containing the following lines; <pre>setprop client.buflim 40m setprop client.memlim 40m</pre>  |
| 6508432 | Many correctable errors (CE) may occur, and despite these are the correctable errors, domain may panic.  | Set the following to <code>/etc/system</code> and then reboot the domain: <pre>set pcie:pcie_aer_ce_mask = 0x2001</pre>   |
| 6508434 | The domain may panic when an additional PCI-X card is installed or a PCI-X card is replaced by using PCI hot plug.   | Do not insert a different type of PCI-X card on the same PCI slot card by using PCI hotplug.  |
| 6509337 | s10s_u3 wanboot fails - The server returned 416: Requested Range Not Satisfiable.  | None available at this time.  |
| 6510779 | On a large single domain configuration, the system may incorrectly report very high load average at times.   | There is no workaround. Check for the availability of a patch for this defect.  |
| 6510861 | When Dual-Channel Ultra320 SCSI Card (SE0X7SC2F,SE0X7SC2X) is mounted, correctable errors(CE) occur and system may panic.  | To mask these errors with Dual-Channel Ultra320 SCSI Card (SE0X7SC2F,SE0X7SC2X), add the following entry to the <code>/etc/system</code> file and then reboot the system: <pre>set pcie:pcie_aer_ce_mask = 0x31c1</pre> |
| 6511374 | <p>Unexpected error messages may be displayed on console after changing the system configuration.</p> <p>Example:</p> <pre>WARNING: Translation error source /LSB0/B0/0, PA 3c000000000, target /LSB0/B0/20000000</pre>  | This message can be safely ignored.   |

**TABLE 7** Specific Issues and Workarounds Concerning Solaris (*Continued*)

| CR ID   | Description   | Workaround  |
|---------|---|---|
| 6515648 | "Replumb Failed" error appears when <code>dr@0:SB1::memory</code> fails.  | Once the DR operation is complete, it can be plumbed up manually.<br>Example steps/procedure to re-plumb the interface manually:<br><pre># ifconfig interface plumb xxx.xxx.xxx.xxx<br/>netmask + broadcast + up<br/># ifconfig interface group group-name<br/># ifconfig interface addif xxx.xxx.xxx.xxx<br/>-failover deprecated up</pre><br>This workaround assumes that the <code>/etc/hostname.interface</code> file is correctly configured for the IPMP group and does not need any modification. The IP addresses used in the example above should match what was previously used and what matches the <code>/etc/hostname.&lt;interface&gt;</code> file. |
| 6519290 | Large amounts of I/O on swap devices can cause the system to appear hung by overwelling the I/O system. The amount of I/O required can be generated through a number of ways, eg memory shortage, heavy use of <code>/tmp</code> etc. | Set the following to <code>/etc/system</code> and then reboot the domain:<br><pre>set maxfastscan=0x2000</pre>  |
| 6520990 | Domain may cause a panic when <code>deleteboard</code> for kernel board by using Dynamic Reconfiguration (DR).  | To mask this error, add the following entry to the <code>/etc/system</code> file.<br><pre>set drmach:fmem_timeout = 30</pre>  |
| 6522017 | Domains using the ZFS filesystem cannot use DR.   | There is no workaround.   |
| 6522433 | After the CPU hardware error occurred, the <code>fmddump(1M)</code> command on the domain may display an incorrect faulty component.  | Check system status on XSCF.  |
| 6529714 | Warning messages occur while trying to configure more than four X4447A-Z or X1027A-Z1 cards into one I/O Boat.  | No workaround available at this time.   |
| 6530178 | DR <code>addboard</code> command can hang. Once problem is observed, further DR operations are blocked. Recovery requires reboot of the domain.   | There is no workaround. Check availability of a patch for this bug.   |
| 6530288 | <code>Ap_Id</code> format may not be shown correctly by <code>cfgadm(1M)</code> .   | None available at this time.  |

**TABLE 7** Specific Issues and Workarounds Concerning Solaris (Continued)

| CR ID   | Description   | Workaround   |
|---------|---|--|
| 6530753 | Some of the PCI slots in the External I/O Expansion Unit PCI slots are not displayed during a normal boot operation.  | Use one of the following operations to display all of the PCI slots. <ul style="list-style-type: none"> <li>• <code>boot -r</code> (at open boot prompt)</li> <li>• <code>devfsadm -C</code> (at Solaris prompt)</li> <li>• <code>cfgadm</code> (twice at Solaris prompt)</li> </ul> |
| 6531036 | The error message <code>network initialization failed</code> appears repeatedly after a boot net installation.  | No workaround available at this time. Ignore the messages.   |
| 6531668 | System hangs when executing parallel hotplug operation with SP DR in suspend phase.   | No workaround available at this time.  |
| 6532215 | <p><code>volfs</code> or <code>dscp</code> service may fail when domain is booted.</p> <pre> svc:/platform/sun4u/dscp:default: Method "/lib/svc/method/svc-dscp start" failed with exit status 95.  svc:/system/filesystem/volfs:default: Method or service exit timed out. Killing contract 59. </pre> | Restart the service if the failure is observed. To avoid the problem, issue the following commands. <pre> # svccfg -s dscp setprop start/timeout_seconds=count: 300 # svccfg -s volfs setprop start/timeout_seconds=count: 300 # svcadm refresh dscp # svcadm refresh volfs </pre>   |
| 6534471 | Domain may panic.   | Add the following line to <code>/etc/system</code> and reboot the domain. <pre> set heaplp_use_stlb=0 </pre>   |
| 6535564 | PCI hot plug to PCI slot #0, #1 or External IO Expansion Unit may fail on XSB added by DR.  | There is no workaround. Use DR instead of PCI hot plug if need to add or remove PCI card on the XSB.   |

**TABLE 7** Specific Issues and Workarounds Concerning Solaris (Continued)

| CR ID   | Description  | Workaround  |
|---------|--|---|
| 6536564 | showlogs(8) and showstatus(8) command on XSCF might report wrong I/O component due to wrong diagnosis by Solaris Fault management Architecture when faults in I/O devices occur. | <p>To avoid this problem, issue the following commands on the domain.</p> <pre># cd /usr/platform/SUNW,SPARC-Enterprise/lib/fm/topo/plugins # mv ioboard.so ioboard.so.orig # svcadm restart fmd</pre> <p>If the following messages are displayed on the domain, contact a sales representative or a certified service engineer.</p> <p>Example:</p> <pre>SUNW-MSG-ID: SUNOS-8000-1L, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Sun May 6 18:22:24 PDT 2007 PLATFORM: SUNW,SPARC-Enterprise, CSN: BE80601007, HOSTNAME: sparc</pre> |
| 6537511 | Bluetooth partner is hung during security tests execution  | Restart application server  |
| 6539084 | Sun PCIe Quad-port Gigabit Ethernet Adapter UTP card(X4447A-Z) might panic during a reboot.  | There is no workaround. Check for the availability of a patch for this defect.  |
| 6542632 | Memory leak in PCIe module if driver attach fails.   | There is no workaround. Check for the availability of a patch for this defect.  |
| 6545685 | If the following message displayed on the OS console, memory degradation or XSB deconfiguration may occur in the subsequent reboot.  | <p>Add the following to /etc/system and then reboot the domain:</p> <pre>set mc-opl: mc_max_rewrite_loop = 10000</pre>  |
|         | <p>Example:</p> <pre>mc-opl: WARNING: mc-opl rewrite timeout on /LSB0/B0</pre>   |   |

# Identifying Permanent Memory in a Target Board

Dynamic reconfiguration is not recommended for production use if the target board (SB/XSB) has permanent memory (kernel memory).

1. Log in to XSCF.
2. Execute the following command:

```
XSCF> showdevices -d domain_id
```

The following example shows a display of the `showdevices -d` command where 0 is the `domain_id`.

```
XSCF> showdevices -d 0

...

Memory:
-----

```

| DID | XSB  | board mem MB | perm mem MB | base address       | domain mem MB | XSB | target deleted mem MB | remaining mem MB |
|-----|------|--------------|-------------|--------------------|---------------|-----|-----------------------|------------------|
| 00  | 00-0 | 8192         | 0           | 0x0000000000000000 | 24576         |     |                       |                  |
| 00  | 00-2 | 8192         | 1674        | 0x000003c000000000 | 24576         |     |                       |                  |
| 00  | 00-3 | 8192         | 0           | 0x0000034000000000 | 24576         |     |                       |                  |

```
...
```

The entry for column 4 perm mem MB indicates the presence of permanent memory if the value is non-zero.

The example shows permanent memory on 00-2, with 1674 MB.

If the board includes permanent memory, when you execute the `deleteboard` command or the `moveboard` command, the following notice appears:

```
System may be temporarily suspended, proceed? [y|n]:
```

3. If a board includes permanent memory, enter `n` to cancel the DR command.

```
System may be temporarily suspended, proceed? [y|n]:n
disconnect SB5
DR operation canceled by operator.
XSCF>
```

---

# Software Documentation Updates

This section contains late-breaking software information that became known after the documentation set was published and corrections in the SPARC Enterprise M4000/M5000 Servers Software documentation.

[TABLE 8](#) lists known documentation updates.

**TABLE 8** Documentation Updates

| Title  | Page Number  | Update  |                     |          |                     |                                      |                      |  |                       |  |
|--|--|---|---------------------|----------|---------------------|--------------------------------------|----------------------|--|-----------------------|--|
| All SPARC Enterprise M4000/M5000 servers documentation                 |  | All DVD references are now referred to as CD-RW/DVD-RW.   |                     |          |                     |                                      |                      |  |                       |  |
| SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF User's Guide     | D-5  | Frequently Asked Questions (FAQ) in "Troubleshooting XSCF and FAQ"<br>The option for OS dump is not "request" but "panic".<br>Correction:<br>1. First, execute the <code>reset(8)</code> command with the panic option from the XSCF Shell.   |                     |          |                     |                                      |                      |  |                       |  |
| SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF Reference Manual | <code>ioxadm(8)</code> command   | The required privileges for the <code>ioxadm(8)</code> command are as follows:<br><table border="0"><thead><tr><th>Required Privileges</th><th>Commands</th></tr></thead><tbody><tr><td><code>platop</code></td><td><code>env</code>, <code>list</code></td></tr><tr><td><code>platadm</code></td><td><code>env</code>, <code>list</code>, <code>locator</code>, <code>poweroff</code>, <code>poweron</code></td></tr><tr><td><code>fieldend</code></td><td><code>env</code>, <code>list</code>, <code>locator</code>, <code>poweroff</code>, <code>poweron</code>, <code>reset</code>, <code>settled</code></td></tr></tbody></table><br>The corrections here, if not otherwise specified, also apply to the man pages which XSCF provides. And they supersede the information on the man pages. | Required Privileges | Commands | <code>platop</code> | <code>env</code> , <code>list</code> | <code>platadm</code> | <code>env</code> , <code>list</code> , <code>locator</code> , <code>poweroff</code> , <code>poweron</code> | <code>fieldend</code> | <code>env</code> , <code>list</code> , <code>locator</code> , <code>poweroff</code> , <code>poweron</code> , <code>reset</code> , <code>settled</code> |
| Required Privileges  | Commands   |   |                     |          |                     |                                      |                      |  |                       |  |
| <code>platop</code>  | <code>env</code> , <code>list</code>   |   |                     |          |                     |                                      |                      |  |                       |  |
| <code>platadm</code>   | <code>env</code> , <code>list</code> , <code>locator</code> , <code>poweroff</code> , <code>poweron</code>   |   |                     |          |                     |                                      |                      |  |                       |  |
| <code>fieldend</code>  | <code>env</code> , <code>list</code> , <code>locator</code> , <code>poweroff</code> , <code>poweron</code> , <code>reset</code> , <code>settled</code> |   |                     |          |                     |                                      |                      |  |                       |  |

**TABLE 8** Documentation Updates

| Title  | Page Number  | Update  |
|--|--|---|
| SPARC Enterprise<br>M4000/M5000/M8000/M9<br>000 Servers XSCF<br>Reference Manual | showldap(8)<br>manpage<br>showlookup(8)<br>manpage<br>showcodusage<br>(8) manpage<br>showemailrep<br>ort(8)<br>manpage | The man pages for showldap, showlookup, showcodusage, and showemailreport do not state that these commands are available with the fieldeng privilege.   |
| SPARC Enterprise<br>M4000/M5000/M8000/M9<br>000 Servers XSCF<br>Reference Manual | setaudit(8)<br>manpage<br>showaudit(8)<br>manpage  | The setaudit and showaudit man pages are incorrect with respect to audit class information.<br>The following are the audit classes and their values:<br>ACS_SYSTEM            1<br>ACS_WRITE             2<br>ACS_READ              4<br>ACS_LOGIN             8<br>ACS_AUDIT             16<br>ACS_DOMAIN            32<br>ACS_USER              64<br>ACS_PLATFORM         128<br>ACS_MODES             256 |
| SPARC Enterprise<br>M4000/M5000/M8000/M9<br>000 Servers<br>Administration Guide  |  | Hotplugging of the IOU onboard device card (IOUA) is not supported at this time.  |

