

SPARC® Enterprise M8000/M9000 Servers Product Notes

For XCP Version 1081

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Preface

These product notes contain late-breaking information about the SPARC $^{\circledR}$ Enterprise M8000/M9000 servers hardware, software, or documentation that became known after the documentation set was published.

Technical Support

If you have technical questions or issues that are not addressed in the SPARC Enterprise M8000/M9000 servers documentation, contact a sales representative or a certified service engineer.

Software Resources

The Solaris™ Operating System and Sun Java™ Enterprise System software are preinstalled on your SPARC Enterprise M8000/M9000 servers.

Contact a sales representative or a certified service engineer for software resources for your SPARC Enterprise M8000/M9000 servers.

Note – For latest patch information go to:

Global Site

http://www.fujitsu.com/qlobal/support/software/security/products-s/patch-info/ **Japanese Site**

https://software.fujitsu.com/jp/security/products-others/unix/

North American Site https://download.computers.us.fujitsu.com/

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

Accessing Documentation

Instructions for installing, administering, and using your SPARC Enterprise M8000/M9000 servers are provided in the SPARC Enterprise M8000/M9000 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/

Note – Information in these product notes supersedes the information in the SPARC Enterprise M8000/M9000 servers documentation set.

Solaris documentation is available at:

http://www.sun.com/documentation

Fujitsu Welcomes Your Comments

If you have any comments or requests regarding this document, or if you find any unclear statements in the document, please state your points specifically on the form at the following URL.

For Users in U.S.A., Canada, and Mexico:

http://www.computers.us.fujitsu.com/www/support servers.shtml?support/servers

For Users in Other Countries: SPARC Enterprise contact

http://www.fujitsu.com/global/contact/computing/sparce_index.html

General Information About XCP 1081

This section describes the general information about XCP 1081.

- What's New in XCP 1081
- Supported Firmware and Software
- Updating to XCP 1081
- Functionality Issues and Limitations

What's New in XCP 1081

In XCP version 1081, the following new feature is introduced:

- The following new XSCF commands are supported:
 - setloginlockout(8)
 - showloginlockout(8)

For detail, see the manual pages for each command.

■ 8GB DIMM is supported in XCP1081 or later.

Supported Firmware and Software

The following firmware and operating system (OS) are supported in this release.

TABLE 1 Firmware and Operating System Versions

| Firmware and Operaing System | Version |
|--|--|
| XSCF Control Package (XCP) | 1081 |
| Solaris TM Operating System | |
| SPARC64 TM VI processors: | Solaris 10 11/06 or later, with required patches |
| SPARC64 TM VII processors: | Solaris 10 8/07 or later, with required patches |

Note – You cannot boot a domain mounted with the SPARC64 VII processors using the Solaris 10 8/07 installation DVD. Use the Solaris 10 5/08 or later installation DVD to boot a domain mounted with the SPARC64 VII processors.

For XCP, you can download the latest files of firmware at the following websites.

Global Site:

http://www.fujitsu.com/sparcenterprise/firmware/

Japanese Site:

http://primeserver.fujitsu.com/sparcenterprise/download/firmware/

Many web browsers support the XSCF Web. The browsers in TABLE 2 have demonstrated compatibility with the XSCF Web through testing.

TABLE 2 Tested Web Browser Versions

| Web Browser Application | Version |
|--|-------------|
| Microsoft [®] Internet Explorer | 6.0 and 7.0 |
| Netscape Navigator $^{\text{TM}}$ * | 7. <i>x</i> |
| Firefox (Solaris 10) | 2.0 |

^{*} Official support for the Netscape web browsers has been terminated. On the XSCF Web, we recommend the use of Internet Explorer or FireFox.

Solaris OS Patch Information

This section lists mandatory patches for the SPARC Enterprise M8000/M9000 servers.

For additional Solaris OS information, see "Solaris OS Issues and Workarounds" on page 24.

Note – See "Software Resources" on page ix for information on how to find the latest patches. Installation information and README files are included in the patch download.

Note – Apply the patches in the following order. For the procedures of CPU upgrade including the patches, see "CPU Upgrade" on page 48.

Patches for Solaris 10 10/08

Patches are not required for servers running Solaris 10 10/08 OS or later.

Patches for Solaris 10 5/08

The following patch is required for all M8000/M9000 servers running Solaris 10 5/08 OS:

137137-09

Patches for Solaris 10 8/07

The following patches are required for Solaris 10 8/07 OS only on servers containing SPARC64 VII processors:

- 119254-51 or later
- 125891-01 or later
- 127755-01 or later
- **127127-11**

Patches for Solaris 10 11/06

The following patches are required for Solaris 10 11/06 OS. Note that Solaris 10 11/06 OS does not support SPARC64 VII processors, even with these required patches:

- 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
- 125670-02 or later

Patches for Emulex PCI Express (PCIe) Cards

The following Emulex cards require drivers supplied in patch 120222-26:

- XSEFC402AF Sun StorageTek Enterprise Class 4Gb Dual-Port Fibre Channel PCI-E HBA
- XSEFC401AF Sun StorageTek Enterprise Class 4Gb Single-Port Fibre Channel PCI-E HBA

Updating to XCP 1081

To update your XCP to XCP 1081, please pay attention to the following points depending on your current XCP version.

You can upgrade to XCP 1081 from XCP version 1050 or later. Refer to the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide for instructions.

Resetting the XSCF Firmware

After updating the XCP firmware to 1081, do not fail to reset the XSCF by using the rebootxscf(8) command.

Updating from a Version Earlier Than XCP 1050

- You cannot update to XCP 1081 directly. If you are currently running a version earlier than XCP 1050, you must first update to an interim version of XCP between 1050 and 1070 (inclusive) before updating to XCP 1081. Refer to the product notes document for the interim version for instructions.
- Delete any accounts named "admin".

 Any accounts named admin must be deleted prior to updating to XCP 1050 or later. This account name is reserved in XCP 1050 and later. Use the deleteuser(8) command to delete the account.

Updating from a Version Earlier Than XCP 1070

On a domain which has been in operation during the XCP update to 1081, when you perform Dynamic Reconfiguration (DR) to add or replace the SPARC64 VII processors, you need to update the OpenBoot™ PROM firmware. The OpenBoot PROM firmware is updated as you update the XCP and restart the domain. For this reason, it is strongly recommended to restart all the domains after you update the firmware to XCP 1081, regardless of whether you added or replaced the SPARC64 VII processors.

Functionality Issues and Limitations

This section describes the known issues and limitations at the time of this release.

Limitations for SPARC64 VII Processors



Caution – You must complete the upgrades to the XCP firmware and to Solaris OS before inserting the CPU/memory board unit of SPARC 64 VII processors into the chassis.

General Functionality Issues and Limitations



Caution – For dynamic reconfiguration (DR) and hot-plug issues, see "Solaris OS Issues and Workarounds" on page 24.

- Domains using the ZFS file system cannot use Dynamic Reconfiguration.
- The maximum number of IOUA (Base I/O Card) cards per domain is limited to six cards.
- Do not use the internal CD-RW/DVD-RW drive unit and the TAPE drive unit at the same time.
- For this XCP release, the XSCF browser user interface (XSCF Web) does not support the External I/O Expansion Unit Manager feature.
- At this time the power consumption monitoring function (the shownevironment(8) command with power operand) is not supported.
- At this time XSCF does not support the Log Archiving feature.
- When using XSCF as the NTP server of the domain, configure it so as not to block the ICMP protocol of the DNS server and the NTP server which the XSCF refers to.
- When you use the external power control interface of the external power controller, the following notification signals are not supported:
 - The OS panic or the server hardware error signal (*CPUN/RTNU)
 - The server hardware error signal (power fail, temperature error, and fan error) (*ALARM)

- For 1027A-Z/X1027A-Z, PCIe Dual 10 Gigabit Ethernet Fiber XFP cards, these limits apply:
 - Do not use more than two cards per domain.
 - Do not use these cards in an External I/O Expansion Unit.
- No more than four 4447A-Z/X4447A-Z, PCIe Quad-port Gigabit Ethernet Adapter UTP cards in an External I/O Expansion Unit (two per PCIe I/O boat).
- We recommend the domain to use the XSCF Unit as NTP server. In this case, pay attention to the following points:
 - XSCF must be connected to an external NTP server
 - When you connect one or more NTP servers in addition to XSCF, connect the same NTP server as XSCF is using

For details on NTP server, contact a service engineer. For details on NTP settings, refer to the *SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide*.

- On the SPARC Enterprise M8000/M9000 servers with XCP 1050 or later, the dual XSCF Unit feature is working. Therefore, you can not downgrade SPARC Enterprise M8000/M9000 servers with XCP 1050 or later to XCP 1040 or XCP 1041, which does not support dual XSCF Unit feature.
- You cannot use the following user account names, as they are reserved for system use: root, bin, daemon, adm, operator, nobody, sshd, rpc, rpcuser, ldap, apache, ntp, admin, and default.
- The Firefox 3 is not supported in XSCF Web.
- To use XSCF Web, disable the cache function of your browser. If you leave the browser cache function enabled, the old cached data might be displayed. To disable the cache funtion:
 - Internet Explorer 6 and 7

[Tools] -> [Internet Options...] -> [Advanced] tab and check the "Do not save encrypted pages to disk" box.

■ Netscape 7.1 or later

[Edit] -> [Preferences] -> [Advanced] -> [Cache] -> [Compare the page in the cache to the page on the network] setting and select the "Every time I view the page" radio button.

Firefox 2

Type "about:config" in address box, then type "cache" in filter box. Change the "browser.cache.check_doc_frequency" settings value to "1."

■ Using the XSCF Web, when you import XCP or update the firmware, Session ID error may be displayed on the web browser. And Internal Server Error might be displayed when you perform the firmware update. Please close the current browser and open the new browser to reconnect to XSCF Web.

- When you use the XSCF Web, if a plug-in such as the search tool installed with the browser, remove the plug-in or disable the pop-up blocking.
- XSCF-LAN is compliant with auto-negotiation. When you connect XSCF-LAN and the network device which has been fixed to the full-duplex mode, according to the IEEE 802.3 rule, XSCF-LAN communicates in the half-duplex mode. Due to this, network communication speed may slow down or communication error may occur. Do not fail to set the network device which connects with XSCF-LAN to the auto-negotiation mode.
- While you are performing DR operation to a COD board, do not execute the addcodlicense(8)/deletecodlicense(8)/setcod(8) command.
- At this time the restoredefaults(8) command is not supported.
- If your domain is running one of the following versions of Solaris OS:
 - Solaris 10 5/08 OS
 - An earlier version of Solaris 10 OS with patch ID 127127-11

Then you must set the following parameter in the system specification file (/etc/system):

```
set heaplp use stlb=0
```

Then reboot the domain.

For more information, refer to CR 6720261 in TABLE 6.

Information About Hardware

This section describes the special instructions and the issues about the SPARC Enterprise M8000/M9000 servers hardware.

- Notes on the Use of 200V Power Supply
- Notes on DVD Drive and Discs
- Notes on the Use of USB Memory
- Hardware Issues and Workarounds
- Hardware Documentation Updates

Notes on the Use of 200V Power Supply

For the servers that have the B-type plug, confirm that a 30A overcurrent protection device is available outside the server. If not, prepare an external 30A overcurrent protection that can be achieved by means of no-fuse breakers (NFBs) or fuses. The B-type plug refers to plugs other than grounding-type ones with two parallel blades, such as the NEMA L6-30, L6-20, L6-15, and L5-15.

Notes on DVD Drive and Discs

See the "Notes on DVD Drives and Discs in SPARC Enterprise" on the website below before using the CD/DVD discs in the standard DVD drive mounted in this server.

URL:

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

Notes on the Use of USB Memory

To execute the dumpconfig(8), restoreconfig(8) or snapshot(8) command, if you specify USB memory as the destination to store data, prepare the USB memory as a medium in advance.

The data stored will include the information about the system. To use USB memory, you need to pay attention to the management of the USB memory in which the data stored, from the data security viewpoint.

We do not provide guarantees to every USB memory from any manufacturers that currently on the market against its connectivity to XSCF and proper operation. Depending on the USB memory in use, defects such as the XSCF firmware error or reset may occur. In case such defects occurred, stop the use of USB memory immediately.

To connect the USB memory to the USB port for XSCF, connect the USB memory directly to the USB port. If connected via USB hub or USB extension cables, it may cause errors.

Hardware Issues and Workarounds

DVD Drives and cfgadm

The Solaris cfgadm(1M) command does not always unconfigure a DVD drive from a domain on SPARC Enterprise M8000/M9000 servers.

Disable the Volume Management Daemon (vold) before unconfiguring a DVD drive with the cfgadm(1M) command. To disable vold, stop the daemon by issuing the command /etc/init.d/volmgt stop. After the device has been removed or inserted, restart the daemon by issuing the command /etc/init.d/volmgt start.

Sun Crypto Accelerator 6000 Cards

If you are not using the correct version of the Sun Crypto Accelerator (SCA) 6000 card driver, hot-plug operations on SCA 6000 cards can cause SPARC Enterprise M8000/M9000 servers to panic or hang. Version 1.1 of the SCA6000 driver and

firmware supports hot-plug operations after the required bootstrap firmware upgrade has been performed. Version 1.0 of the SCA6000 driver does not support hot-plug and should not be used.

Hardware Documentation Updates

This section contains late-breaking hardware information that became known after the documentation set was published and corrections in the SPARC Enterprise M8000/M9000 servers hardware documentation.

TABLE 3 lists known documentation updates.

 TABLE 3
 Hardware Documentation Updates

| Title | Page Number | Update |
|---|-------------|---|
| SPARC Enterprise M8000/M9000 Servers | 3-14 | TABLE 3-8 "Specifications (Single-Phase Power Supply Connections)" |
| Site Planning Guide | | It describes the Plug geometry of SPARC Enterprise M8000/M9000 Servers for Japan as "NEMA L6-30R" which should be modified as "NEMA L6-30P." |
| | | The following note will be added. |
| | | Note - For the servers that have the B-type plug, confirm that a 30A overcurrent protection device is available outside the server. If one is not available, prepare an external 30A overcurrent protection that can be achieved by means of no-fuse breakers (NFBs) or fuses. The B-type plug refers to plugs other than grounding-type ones with two parallel blades, such as the NEMA L6-30, L6-20, L6-15, and L5-15. |
| SPARC Enterprise | 2-4 | TABLE 2-3 "Power Supply Connection Specifications" |
| M8000/M9000 Servers | | The following note will be added. |
| Installation Guide | | Note - For the servers that have the B-type plug, confirm that a 30A overcurrent protection device is available outside the server. If one is not available, prepare an external 30A overcurrent protection that can be achieved by means of no-fuse breakers (NFBs) or fuses. The B-type plug refers to plugs other than grounding-type ones with two parallel blades, such as the NEMA L6-30, L6-20, L6-15, and L5-15. |
| | 3-36 | 3.4.3 "Connecting Cables Between XB Units" |
| | 3-42 | The following caution will be added. |
| | | Caution - If you are unable to prepare a torque screwdriver, secure the clock cable connectors by hand. Do not secure them with a regular screwdriver. |

 TABLE 3
 Hardware Documentation Updates (Continued)

| Title | Page Number | Update |
|---|----------------------|---|
| SPARC Enterprise M8000/M9000 Servers Service Manual | 6-31 | Please replace "single-rank" with "1 rank" and "dual-rank" with "2 rank" in the text. |
| | 16-6 | The following caution will be added. |
| | 17-7 | Caution - If you are unable to prepare a torque screwdriver, secure the clock cable connectors by hand. Do not secure them with a regular screwdriver. |
| | A-3, A-5, A-7 B-7 | "DIMM-8GB" will be added in the following tables and B.3 "Memory." |
| | 2. | TABLE A-1 "System Configuration for SPARC Enterprise M8000 Server" |
| | | TABLE A-2 "System Configuration for SPARC Enterprise M9000 Server" |
| | | TABLE A-3 "System Configuration for M9000 with Expansion Cabinet" |
| | C-3 | Section C.4, "SAS Port," will be deleted. |

Updates of the SPARC Enterprise M8000/M9000 Servers Site Planning Guide

The following information supersedes the information in the SPARC Enterprise M8000/M9000 Servers Site Planning Guide.

The table here corrects TABLE 3-1, "Specifications (Ambient Environmental Requirements)," in Section 3.1.1, "Ambient Environmental Requirements" on page 3-2.

 TABLE 3-1
 Specifications (Ambient Environmental Requirements)

| | Operating Range | Non-Operating Range | Optimum |
|------------------------|--|--|--------------------------------|
| Ambient temperature | 5°C to 35°C (41°F to 95°F) | Unpacked: 0°C to 50°C (32°F to 122°F) Packed: -20°C to 60°C (-4°F to 140°F) | 21°C to 23°C (70°F to 74°F) |
| Relative humidity * | 20% RH to 80% RH | to 93% RH | 45% RH to 50% RH |
| Altitude restriction † | 3,000 m (10,000 ft) | 12,000 m (40, 000 ft) | |
| Temperature conditions | 5 to 32 (41 to 89.6) at an installation altitude ranging from 0 to less than 1500 m (4921 feet) above sea level | | |
| | 5 to 30 (41 to 86) at an installation altitude ranging from 1500 m (4921 feet) to less than 2000 m (6562 feet) above sea level | | |
| | 5 to 28 (41 to 82.4) at an installation altitude ranging from 2000 m (6562 feet) to less than 2500 m (8202 feet) above sea level | | |
| | 5 to 26 (41 to 78.8) at an installation altitude ranging from 2500 m (8202 feet) to 3000 m (9843 feet) above sea level | | |

^{*} There is no condensation regardless of the temperature and humidity.

[†] All altitudes are above sea level.

Updates of the SPARC Enterprise M8000/M9000 Servers Overview Guide

The following information supersedes the information in the SPARC Enterprise M8000/M9000 Servers Overview Guide.

The table here corrects TABLE 1-4, "Environmental Specifications," in Section 1.2.3, "Environmental Specifications" on page 1-11.

TABLE 1-4 Environmental Specifications

| | Operating Range | Non-Operating Range | Optimum |
|------------------------|--|--|--------------------------------|
| Ambient temperature | 5°C to 35°C (41°F to 95°F) | Unpacked: 0°C to 50°C (32°F to 122°F) Packed: -20°C to 60°C (-4°F to 140°F) | 21°C to 23°C (70°F to 74°F) |
| Relative humidity * | 20% RH to 80% RH | to 93% RH | 45% RH to 50% RH |
| Altitude restriction † | 3,000 m (10,000 ft) | 12,000 m (40, 000 ft) | |
| Temperature conditions | 5 to 32 (41 to 89.6) at an installation altitude ranging from 0 to less than 1500 m (4921 feet) above sea level 5 to 30 (41 to 86) at an installation altitude ranging from 1500 m (4921 feet) to less than 2000 m (6562 feet) above sea level | | |
| | 5 to 28 (41 to 82.4) at an installation altitude ranging from 2000 m (6562 feet) to less than 2500 m (8202 feet) above sea level | | |
| | 5 to 26 (41 to 78.8) at an installation altitude ranging from 2500 m (8202 feet) to 3000 m (9843 feet) above sea level | | |

^{*} There is no condensation regardless of the temperature and humidity.

[†] All altitudes are above sea level.

Updates of the SPARC Enterprise M8000/M9000 Servers Service Manual

The following information supersedes the information in the *SPARC Enterprise M8000/M9000 Servers Service Manual*.

Maintenance Tools

The table here corrects TABLE 1-1, "Maintenance Tools," in Section 1.4, "Required Maintenance Tools" on page 1-10.

TABLE 1-1 Maintenance Tools

| No. | Name[Settings] | Use |
|-----|---|--|
| 1 | Torque wrench [8.24 N·m (84 kgf·cm)] | Used to fix the bus bars of the power cabinet. |
| 2 | Sockets for 10 mm (M6) torque wrench | Used to replace the BP_A in the SPARC Enterprise M8000 server. |
| 3 | Sockets for 13 mm (M8) torque wrench | Used to fix the bus bars of the power cabinet. |
| 4 | Torque wrench extension | |
| 5 | Torque screwdriver [0.2 N m (2.0 kgf cm)] | Used to secure the clock cables between the cabinets if the expansion cabinet of the SPARC Enterprise M9000 server is mounted. |
| 6 | Slotted bit | Used to secure the clock cables between the cabinets if the expansion cabinet of the SPARC Enterprise M9000 server is mounted. |
| 7 | Wrist strap | For antistatic purposes |
| 8 | Conductive mat | For antistatic purposes |
| 9 | CPU module replacement tool | For mounting and removing CPU Modules (accessory) |
| 10 | SunVTS | Test program |

Powering the Server Off From the Maintenance Terminal

This is to correct the partial description in Section 4.4.1, "Powering the Server Off," explaining the steps "From the Maintenance Terminal" on page 4-13.

Follow the power-off procedure below using the XSCF maintenance functions.

- 1. Notify users that the server is going down.
- 2. Back up the system files and data as necessary.
- 3. Log into the XSCF Shell and type the poweroff command.

XSCF> poweroff -a

The following activities occur when the poweroff command is used:

- The Solaris OS shuts down cleanly.
- The server powers off to Standby mode (the XSCF unit and one fan will still have power).

For details of the command, see the XSCF Reference Manual for your server.

4. Switch off all main line switches of the AC section.



Caution – There is an electrical hazard if the power cords are not disconnected. All power cords must be disconnected to completely remove power from the server.

Mounting the PCI Card

This is to correct step 9 in Section 13.2, "Active Replacement," of Chapter 13, "PCI Slot Device Replacement" on page 13-10.

9. Mount the replacement PCI card on the PCI cassette. (Perform this work on the conductive mat.)

FIGURE 13-6 shows card positioning post and card positioning tab.

FIGURE 13-6 Card positioning post and card positioning tab

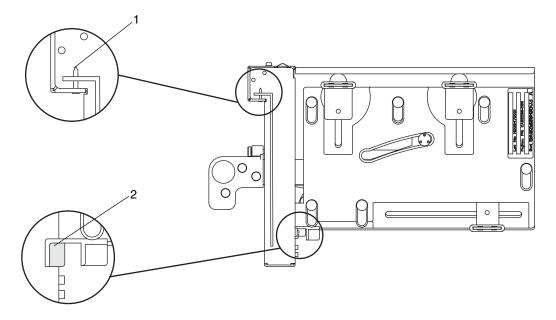


TABLE 13-2 Card positioning post and card positioning tab

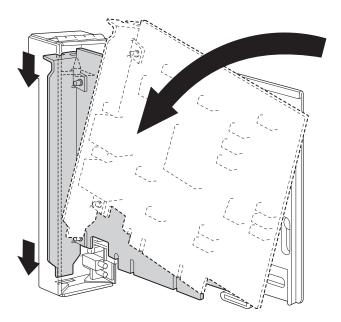
| Item | Description |
|------|-----------------------|
| 1 | Card positioning post |
| 2 | Card positioning tab |

The post (item 1 in FIGURE 13-6) is seated in the notch of the bracket of the PCI card. If the post is not properly seated in the notch, the mounting bracket of the card may be bent and the card may end up being affixed in an inclined position on the PCI cassette. If a card is affixed in an inclined position, it will not be in proper electric contact with the socket on the IOU.

The tab (item 2 in FIGURE 13-6) fits in the notch on the lower part of the PCI card. This tab is helpful in positioning the card when it is mounted on the PCI cassette (however, some types of cards do not have the notch).

Note – When the PCI cassette is removed from the IOU, the tab raises the front of the card from the card connector.

- a. Move the PCI card in the direction of the arrow, and mount it on the PCI cassette by inserting the part projecting out at the bottom of the bracket of the PCI card into the hole at the bottom of the front panel of the PCI cassette and inserting the pin of the PCI cassette into the oval hole at the top of the bracket of the PCI card.
- a. Mounting the PCI Card



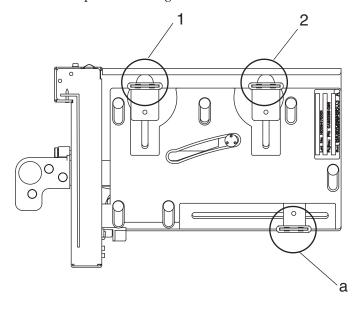
b. Push the PCI card until the notched part on the base plate of the PCI card touches the card-positioning tab from the PCI cassette.

Note – When fixing the PCI card in position after aligning it with the card positioning tab, do so while pulling the lever about 2 cm from the frame.

c. Align the PCI card with the center part of the lower latch of the cassette. Then, while pressing the PCI card against the center part of each of the upper latches of the cassette, tighten the fixing screws in the sequence shown in FIGURE 13-8 to fix the card in position.

Note – To ensure that the PCI card is properly mounted, you need to confirm that the PCI card base is properly centered at the latches and securely fastened in position.

FIGURE 13-8 Sequence of Fixing the PCI Card in Position





Caution – If the card is short, move the screw at the bottom of the cassette as required. In such cases, place the latches as close as possible to the far end of the card (FIGURE 13-9 reference). To shift the location of the bottom screw for the PCI card, first secure the card at the lower latch (part a in FIGURE 13-8). Then, tighten the fixing screws in the sequence shown in FIGURE 13-8 to fix the card in position.

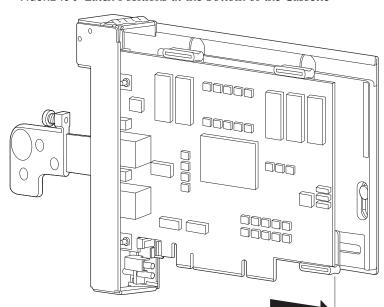


FIGURE 13-9 Latch Positions at the Bottom of the Cassette

Information About Software

This section describes the special instructions and the issues about the SPARC Enterprise M8000/M9000 servers software.

- XCP Issues and Workarounds
- Solaris OS Issues and Workarounds
- Software Documentation Updates
- Identifying Degraded Memory in a System
- Identifying Different Memory Sizes in a System Board
- Identifying Permanent Memory in a Target Board
- CPU Upgrade

XCP Issues and Workarounds

TABLE 4 lists known XCP issues and possible workarounds.

TABLE 4 XCP Issues and Workarounds

| ID | Description | Workaround |
|----------------------|---|--|
| RTIF1- 070418-009 | While XSCF is running, a process may go down, a watchdog timeout may occur, or a hang-up may occur. After this, XSCF may reset. | Check that XSCF is started. If there is XSCF unit which is not started, execute the replacefru(8) command, and then uninstall the XSCF unit and install it again. Or stop all the domains and then execute the system power off/on (AC OFF/ON). To turn on the system power that you turned off, wait at least 30 seconds before power-on. |

 TABLE 4
 XCP Issues and Workarounds (Continued)

| ID | Description | Workaround |
|----------------------|---|--|
| RTIF1- 070528-002 | While XSCF is running, watchdog timeout may occur and XSCF may reboot. | Check that XSCF is started. If not started, stop all the domains and then execute the system power off/on (AC OFF/ON). To turn on the system power that you turned off, wait at least 30 seconds before power-on. |
| RTIF1- 070914-025 | When you execute XCP Sync on the Firmware Update page, after 15 minutes, the error message "Another flashupdate is now processing" or "The page cannot be displayed" may appear. | No workaround is available. However, the XCP Sync process has been continuously executed. Check the XSCF update completion message on the monitoring message to confirm the completion of Sync process. |
| RTIF1- 071102-002 | The snmp daemon might quit. | To restart the snmp daemon, issue the command setsnmp enable. |
| RTIF1- 071116-001 | DR operations might fail (with a misleading message regarding the board being unavailable for DR) after the addfru(8) or replceafru(8) command have been used for active replacement. This happens when the active replacement is done without the diagnostic test in the maintenance menu. | Do not fail to execute the diagnosis in the maintenance menu of the addfru(8) or replacefru(8) command. In case of missing the diagnostic test in the maintenance menu of the addfru(8) or the replacefru(8) command, execute the testsb(8) command or delete the CPU/memory board unit using the deletefru(8) command and then retry the addfru(8) command. |
| RTIF1- 071126-002 | When the server is being installed, and the mainline switch is turned on for the first time, these error messages might be displayed: PSU shortage XSCF watchdog timeout XSCFU hang-up is detected XSCF process down detected | Turn off the system AC power, then turn it on again. When the error log is displayed again, turn off the system AC power, then turn it on again. To turn on the system power that you turned off, wait at least 30 seconds before power-on. |
| RTIF1- 080725-001 | In setsnmp addv3traphost, when the authentication failed due to the reasons such as the trap host not working, or the wrong user name or password, the subsequent SNMP traps will not be notified. | No workaround is available. Confirm that the SNMP trap host is working and re-execute the setsnmp(8) command using the correct user name. |
| RTIF1- 080725-002 | When the SNMPv3 trap has been set, after the watchdog timeout occurred in XSCF and XSCF reset, the subsequent SNMP traps will not be notified. | Reset the XSCF. |
| RTIF1- 080725-004 | After set the Daylight Saving Time by using the XSCF shell, XSCF Web does not show the correct time in the Logs menu. | No workaround is available. Use the showlogs(8) command of the XSCF shell. |

 TABLE 4
 XCP Issues and Workarounds (Continued)

| ID | Description | Workaround |
|----------------------|---|--|
| RTIF1- 081006-002 | In the setemailreport(8) command, when you specified over 255 characters in the SMTP address, an error results. | Do not specify over 255 characters in the SMTP address. |
| RTIF1- 081006-005 | The network configuration on the XSCF Web does not support the function equivalent to the setnetwork -r comand. And when you specified localhost or localdomain to the host name or the domain name, the error message "SessionID has expired" appears. | Use the setnetwork -r command on the XSCF shell. |
| RTIF1- 081006-006 | The panic log on the XSCF Web might not be displayed from the top of the message. | When the output is insufficient, execute the showlogs panic command on the XSCF shell. |
| RTIF1- 081006-011 | SNMP trap host configuration changes are not valid until setsnmp disable and setsnmp enable. | Modify the SNMP setting: XSCF> setsnmp disable XSCF> setsnmp enable |
| RTIF1- 081016-001 | Power failure at the commercial AC supply connector to the UPS does not send notification/send trap. | No workaround is available. |
| RTIF1- 081030-001 | The information related to the defined LSB cannot be displayed on XSCF Web "Domain Configuration" page with an account which has single domain privilege larger than DID15. In addition, the operation for such LSB by "XSB Config" button cannot be performed. | Use the showdcl(8), addboard(8), deleteboard(8), moveboard(8) command on the XSCF shell. |
| RTIF1- 081030-002 | When the timezone other than three characters has been set, the error logs cannot be displayed on XSCF Web "Error Log" page. In addition, XSCF Web "Panic Log" and "IPL Message Log" pages displays the date on the table with "". | Use the showlogs(8) command on the XSCF shell. |
| RTIF1- 081104-001 | The monitor message log might not be registered when a PCI slot error detected. | No workaround is available. Use the showlogs error command or the fmdump command to check the fault information of PCI slot. |
| RTIF1- 081225-001 | In the settimezone -c adddst command, when you set eight or more letters to the abbreviation of time zone and the name of Daylight Saving Time, execution of the showlogs command induces a segmentation fault and results in an error. | Specify the abbreviation of time zone and the name of Daylight Saving Time in seven letters or less. |

 TABLE 4
 XCP Issues and Workarounds (Continued)

| ID | Description | Workaround |
|----------------------|---|--|
| RTIF1- 090108-003 | Date and time of the Last Update which displayed on the XSCF Web may not be updated. | Please refresh the display. |
| RTIF1- 090108-004 | When you replaced the XSCF unit by using the replacefru(8) command, there may be the DB synchronization timeout error log and the replacement may fail. | Turn off all mainline switches and then turn on again. Or, just after the XSCF reset using the rebootxscf(8) command, execute the replacefru(8) command and extract and insert the XSCF unit which failed in replacement. If time passed after the XSCF reset, the replacefru(8) command may fail again. In such a case, re-execute the rebootxscf(8) command and the subsequent processes. |
| RTIF1- 090115-001 | When you execute the settelnet -c disable command, the Telnet service will be stopped immediately. However, unless you reset XSCF by using the rebootxscf(8) command, you might fail in the subsequent restart of the Telnet service. | After you stopped the Telnet service, execute the rebootxscf(8) command to reset XSCF. |
| RTIF1- 090122-001 | "Power recovery" message is output before a PSU has recovered. | After the "Power recovery" message is output, wait 60 seconds before removing power from another PSU. |
| RTIF1- 090220-001 | In a system connecting multiple hosts and one or more I/O units with RCI, the power-on operation to one of those RCI hosts may not power on any of the RCI I/O units. | All the RCI hosts shall be powered on. |
| RTIF1- 090220-002 | After replaced the XSCF unit, the RCI power interlocking setting restores to its default value. | If you have set the power interlocking to a value other than the default, replace the XSCF unit and then use the setpwrmode(1M) command to set the power interlocking setting again. |

Solaris OS Issues and Workarounds

This section contains information about Solaris OS issues. TABLE 5, TABLE 6, TABLE 7, and TABLE 8 list issues you might encounter, depending upon which Solaris OS release you are using.

Solaris Issues and Workarounds for All Supported Releases

TABLE 5 lists Solaris OS issues that you might encounter in any supported release of Solaris OS.

 TABLE 5
 Solaris OS Issues and Workarounds for All Supported Releases

| CR ID | Description | Workaround | |
|---------|--|--|--|
| 6440061 | The domain console may display this message: ipsec_check_inbound_policy: Policy Failure for the incoming packet (not secure) | This message can be safely ignored. | |
| 6449315 | The Solaris OS cfgadm(1M) command does not unconfigure a DVD drive from a domain on a SPARC Enterprise M8000/M9000 server. | Disable the Volume Management Daemon (vold) before unconfiguring a DVD drive with the cfgadm(1M) command. To disable vold, stop the daemon by issuing the command /etc/init.d/volmgt stop. After the device has been removed or inserted, restart the daemon by issuing the command /etc/init.d/volmgt start. | |
| 6459540 | The DAT72 internal tape drive on SPARC Enterprise M8000/M9000 may time out during tape operations. | Add the following definition to /kernel/drv/st.conf: | |
| | | tape-config-list= | |
| | | "SEAGATE DAT DAT72-000", | |
| | | "SEAGATE_DATDAT72-000", | |
| | | "SEAGATE_DATDAT72-000"; | |
| | | SEAGATE_DATDAT72-000= | |
| | | 1,0x34,0,0x9639,4,0x00,0x8c,0x8c, | |
| | | 0x8c,3; | |
| | | There are four spaces between SEAGATE DAT and DAT72-000. | |
| 6466617 | Performing a hot plug operation with the PCI- Express slot too quickly interrupts a PCI leaf reset and occurs the following error: | Pause a few seconds between the issue of each cfgadm -c command. | |
| | cfgadm: Component system is busy error | | |

 TABLE 5
 Solaris OS Issues and Workarounds for All Supported Releases (Continued)

| CR ID | Description | Workaround |
|---------|---|--|
| 6481002 | Installing the Solaris OS 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. |
| 6515648 | "Replumb Failed" error appears when dr@0:SB1::memory fails. | Once the DR operation is complete, it can be plumbed up manually. Example steps to re-plumb the interface manually: # ifconfig interface plumb xxx.xxx.xxx netmask + broadcast + up # ifconfig interface group group-name # ifconfig interface addif xxx.xxx.xxx -failover deprecated up |
| | | This workaround assumes that the /etc/hostname.interface 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 /etc/hostname. <ia file.<="" td=""></ia> |
| 6516135 | Ap_Id format and devices may not be shown correctly by cfgadm(1M). | Use the following operations to display all of the PCI slots. 1) devfsadm (at Solaris prompt) 2) cfgadm |
| 6519290 | Large amounts of I/O on swap devices can cause the system to appear hung by overwhelming the I/O system. The amount of I/O required can be generated through a number of ways, eg memory shortage, heavy use of /tmp etc. | Set the following to /etc/system and then reboot the domain: set maxfastscan=0x2000 |
| 6522017 | DR and ZFS may not be used in the same domain. | Reduce the amount of kernel memory that ZFS can allocate by setting the zfs_arc_max parameter in the /etc/system file. The following example sets the maximum size to 512 Mbytes. |
| | | set zfs_arc_max = 0x20000000 |

 TABLE 5
 Solaris OS Issues and Workarounds for All Supported Releases (Continued)

| CR ID | Description | Workaround |
|--------------------|--|--|
| 6529714 | Warning messages occur while trying to configure more than four X4447A-Z or X1027A-Z1 cards into one I/O Boat. | No workaround is available. |
| 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. • boot -r (at open boot prompt) • devfsadm -C (at Solaris prompt) • cfgadm (twice at Solaris prompt) |
| 6531036 | The error message network initialization failed appears repeatedly after a boot net installation. | No workaround is available. This message can be safely ignored. |
| 6531668 | System hangs when executing parallel hot plug operation with SP DR in suspend phase. | No workaround is available. |
| 6532215 | volfs or dscp service may fail when domain is booted. | Restart the service if the failure is observed. To avoid the problem, issue the following commands. |
| | svc:/platform/sun4u/dscp:default: Method "/lib/svc/method/svc-dscp start" failed with exit status 95. | <pre># svccfg -s dscp setprop start/timeout_seconds=count: 300 # svccfg -s volfs setprop start/timeout seconds=count: 300</pre> |
| | <pre>svc:/system/filesystem/volfs:defaul t: Method or service exit timed out. Killing contract 59.</pre> | # svcadm refresh dscp # svcadm refresh volfs |
| 6537511 | Bluetooth partner is hung during security tests execution. | Restart application server. |
| 6565553 6674266 | DR deleteboard(8) and moveboard(8) operations might fail. Example for messages on domain: drmach: WARNING: Device driver failure: /pci dcs: <xxxx> config change state:</xxxx> | No workaround is available. Try DR operations again. |
| | Hardware specific failure: unconfigure SB1: Device driver failure: /pci | |
| 6572827 | The prtdiag -v command reports PCI bus types incorrectly. It reports "PCI" for PCI-X leaf devices and "UNKN" for legacy PCI devices. | No workaround is available. |

 TABLE 5
 Solaris OS Issues and Workarounds for All Supported Releases (Continued)

| CR ID | Description | Workaround |
|---------|--|---|
| 6588555 | XSCF failover during DR operation to the permanent memory might cause domain panic. | Do not start an XSCF failover while a DR operation is running. Wait for a DR operation to finish before starting the failover. If you start the failover first, wait for the failover to finish before starting the DR operation. |
| 6588650 | On occasion, the system is unable to DR after an XSCF failover or XSCF reboot. | No workaround is available. |
| 6589644 | After added the system board by DR, when the switching occurred on the redundant XSCF Units, the domain console may hang up. | The console can be recovered by pressing Ctrl-q (the "Ctrl" key and the "q" key). |
| 6592302 | Unsuccessful DR operation leaves memory partially configured. | Try deleteboard(8) again. |
| 6623226 | The Solaris command lockstat(1M) or the dtrace lockstat provider might cause a system panic. | This has been fixed in patch 140336-01. [Workaround] Do not use the Solaris lockstat(1M) |
| | | command or the dtrace lockstat provider. |
| 6625734 | Systems with large number of processors in a single domain environment may have suboptimal performance with certain workloads. | Use processor sets to bind application processes or LWPs to groups of processors. Refer to the psrset(1M) man page for more information. |

 TABLE 5
 Solaris OS Issues and Workarounds for All Supported Releases (Continued)

| CR ID | Description | Workaround |
|---------|---|--|
| 6660168 | If a ubc.piowbeue-cpu error occurs on a domain, the Solaris Fault Management cpumem-diagnosis module might fail, causing an interruption in FMA service. | If FMA service fails, issue the following command on the domain to recover: # svcadm clear fmd |
| | If this happens, you will see the following output in the console log: SUNW-MSG-ID: FMD-8000-2K, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Fri Apr 4 21:41:57 PDT 2008 PLATFORM: SUNW, SPARC-Enterprise, CSN: 2020642002, HOSTNAME: <hostname> SOURCE: fmd-self-diagnosis, REV: 1.0 EVENT-ID: 6b2e15d7-aa65-6bcc-bcb1-cb03a7dd77e3 DESC: A Solaris Fault Manager component has experienced an error that required the module to be disabled. Refer to http://sun.com/msg/FMD-8000-2K for more information. AUTO-RESPONSE: The module has been disabled. Events destined for the module will be saved for manual diagnosis.</hostname> | Then restart cpumem-diagnosis: # fmadm restart cpumem-diagnosis |
| | IMPACT: Automated diagnosis and response for subsequent events associated with this module will not occur. | |
| | REC-ACTION: Use fmdump -v -u <event-id> to locate the module. Use fmadm reset <module> to reset the module.</module></event-id> | |
| 6668237 | After DIMMs are replaced the corresponding DIMM faults are not cleared on the domain. | Use the following commands: # fmadm repair fmri uuid # fmadm rotate |
| 6680733 | Sun Quad-port Gigabit Ethernet Adapter UTP (QGC) & Sun Dual 10 GigE Fiber XFP Low Profile Adapter (XGF) NICs might panic under high load conditions. | This has been fixed in patch 139570-01. |

 TABLE 5
 Solaris OS Issues and Workarounds for All Supported Releases (Continued)

| CR ID | Description | Workaround |
|---------|---|---|
| 6689757 | • | This has been fixed in patch 139570-01. [Workaround] Check and make sure that both XFP optical transceivers are firmly seated in the housing. Do not mix INTEL and Sun XFP optical transceivers in the same Adapter. Do NOT plumb a port with the ifconfig command if the port does not contain an XFP optical transceiver or it contains one but the transceiver is not in use. |
| 6707628 | Scheduler decisions on Mx000 systems are occasionally unbalanced. Sometimes two threads will be on one core (causing both to run at about half speed) while another core is idle. For many OpenMP and similar parallel applications, the application performance is limited by the speed of the slowest thread. Uneven scheduling is not common, perhaps 1 in 50 or 1 in 100 decisions. But if there are 128 threads running, then the application might have at least one uneven schedule event. | Use processor sets to prevent uneven threads to core assignment. |
| 6745410 | Boot program ignoresthe Kadb option which causes the system not to boot. | Use kmdb instead of kadb. |

Solaris OS Issues Fixed in Solaris 10 10/08

TABLE 6 lists issues that have been fixed in Solaris 10 10/08 OS. You might encounter them in supported releases earlier than Solaris 10 10/08.

 TABLE 6
 Solaris OS Issues Fixed in Solaris 10 10/08

| CR ID | Description | Workaround |
|---------|---|---|
| 6511374 | Unexpected error messages may be displayed on console after changing the system configuration. Example: | This has been fixed in patch 137137-09. |
| | | This message can be safely ignored. |
| | WARNING: Translation error source /LSB0/B0/0, PA 3c000000000, target /LSB0/B0/20000000 | |
| 6533686 | When XSCF is low on system resources, DR operations involving relocating permanent | This has been fixed in patch 138397-01. |
| | memory, such as deleteboard(8) or | [Workaround] |
| | moveboard(8), might fail with one or more of these errors: | Retry the DR operation at a later time. |
| | SCF busy | |
| | DR parellel copy timeout | |
| | This applies only to Quad-XSB configured system boards hosting multiple domains. | |
| 6535018 | In Solaris domains that include SPARC64 VII processors, workloads that make heavy use of the Solaris kernel might not scale as expected when you increase the thread count to a value greater than 256. | This has been fixed in patch 137111-01. |
| | | [Workaround] |
| | | For Solaris domains that include SPARC64 VII processors, limit domains to a maximum of 256 threads. |

 TABLE 6
 Solaris OS Issues Fixed in Solaris 10 10/08 (Continued)

| Description | Workaround |
|--|--|
| The DR deleteboard(8) and moveboard(8) operations might hang if any of the following conditions exist: | For Solaris 10 5/08 or earlier, this has been in patch 137111-01. |
| A DIMM has been degraded. | [Workaround] |
| The domain contains system boards with different memory size. | Avoid performing DR operations if any of the listed conditions exist. |
| | To determine whether the system contains degraded memory, use the XSCF showstatus(8) command. For sample output, see "Identifying Degraded Memory in a System" on page 45. |
| | To determine whether the domain contains system boards with different memory sizes, display the list of memory sizes using the XSCF showdevices(8) command or the prtdiag(8) command on the domain. For sammple of output, see "Identifying Different Memory Sizes in a System Board" on page 45 |
| | If a DR command hangs, reboot the domain to recover. |
| For Solaris domains that include SPARC 64 VII processors, a single domain of 256 threads (128 | This has been fixed in patch 137111-03. |
| cores) or more might hang for an extended | [Workaround] |
| situations. Upon recovery, the uptime command will show extremely high load averages. | For Solaris domains that include SPARC 64 VII processors, do not exceed a domain size of 256 virtual CPUs in a single Solaris domain. This means a maximum of 32 CPU chips in a single domain configuration (maximum configuration for an M8000 server). |
| fmd service on domain might fail to maintenance mode after DR operations. | This has been fixed in patch 138050-01. |
| | [Workaround] |
| | If fmd service fails, issue the following commands on the domain to recover: # sycadm clear fmd |
| | The DR deleteboard(8) and moveboard(8) operations might hang if any of the following conditions exist: • A DIMM has been degraded. • The domain contains system boards with different memory size. For Solaris domains that include SPARC 64 VII processors, a single domain of 256 threads (128 cores) or more might hang for an extended period of time under certain unusual situations. Upon recovery, the uptime command will show extremely high load averages. |

 TABLE 6
 Solaris OS Issues Fixed in Solaris 10 10/08 (Continued)

| CR ID | Description | Workaround |
|---------|--|---|
| 6660197 | DR might cause the domain to hang if either of the following conditions exist: | This has been fixed in patch 138397-01. |
| | • A domain contains 256 or more CPUs. | [Workaround] |
| | Memory error occurred and the DIMM has been degraded. | Set the following parameterin the system specification file (/etc/system): |
| | | <pre>set drmach:drmach_disable_mcopy = 1 2. Reboot the domain.</pre> |
| 6679370 | The following message may be output on the console during the system booting, the External I/O Expansion Unit adding by hotplug, or the FMEMA operating by DR. | This has been fixed in patch 137137-09. Note - Before adapting the patch, delete the following setting from /etc/system: set pcie_expected_ce_mask = 0x2001 |
| | SUNW-MSG-ID: SUN4-8000-75, TYPE: Fault, VER: 1, SEVERITY: Critical DESC: | [Workaround] Add the following to /etc/system and then reboot the domain. |
| | A problem was detected in the PCI- Express subsystem. Refer to http://sun.com/msg/SUN4- 8000-75 for more information. | set pcie_expected_ce_mask = 0x2001 |
| 6720261 | If your domain is running one of the following versions of Solaris OS, the system might panic/trap during normal operation: | This has been fixed in patch 137137-09. [Workaround] |
| | Solaris 10 5/08 OSAn earlier version of Solaris 10 OS with | Set the following parameter in the system specification file (/etc/system): |
| | patch ID 127127-11 | set heaplp_use_stlb=0 |
| | | Then reboot the domain. |

Solaris OS Issues Fixed in Solaris 10 5/08

TABLE 7 lists issues that have been fixed in Solaris 10 5/08 OS. You might encounter them in supported releases earlier than Solaris 10 5/08.

 TABLE 7
 Solaris OS Issues Fixed in Solaris 10 5/08

| CR ID | Description | Workaround |
|---------|--|--|
| 5076574 | A PCIe error can lead to an invalid fault diagnosis on a large M8000/M9000 domain. | For Solaris 10 8/07 or earlier, this has been fixed in patch 127127-11. [Workaround] Create a file /etc/fm/fmd/fmd.conf containing the following lines; setprop client. buflim 40m setprop client. memlim 40m |
| 6472153 | If you create a Solaris OS Flash archive on a non-SPARC Enterprise M8000/M9000 sun4u server and install it on a SPARC Enterprise M8000/M9000 sun4u server, the console's TTY flags will not be set correctly. This can cause the console to lose characters during stress. | For Solaris 10 8/07 or earlier, this has been fixed in patch 137046-01. [Workaround] Just after installing Solaris OS from a Solaris Flash archive, telnet into the SPARC Enterprise M8000/M9000 server to reset the console's TTY flags a follows: |
| 6505921 | Correctable error on the system PCIe bus controller generates an invalid fault. | <pre># sttydefs -r console # sttydefs -a console -i "9600 hupcl opost onlcr crtscts" -f "9600" This procedure is required only once. For Solaris 10 8/07 or earlier, this has been fixed in 120011-14 and 125369-05. [Workaround] Create a file /etc/fm/fmd/fmd.conf containing the following lines; setprop client.buflim 40m</pre> |
| 6522433 | After the CPU hardware error occurred, the fmdump(1M) command on the domain may display an incorrect faulty component. | setprop client.memlim 40m For Solaris 10 8/07 or earlier, this has been fixed in patch 127127-11. [Workaround] Check system status on XSCF. |

| TARLE 7 | Solarie OS Isemes | Fixed in Solarie | 10 5/08 (Continued) |
|---------|-------------------|------------------|---------------------|
| IADLE / | JOIATIS CO ISSUES | rixeu ili bolans | 10 57 00 (Commueu) |

| The showhardconf(8) command on the XSCF | |
|--|--|
| cannot display PCI card information that is installed in External I/O Expansion Unit, if the | For Solaris 10 8/07 or earlier, this has been fixed in patch 128346-01. |
| External I/O Expansion Unit is configured using PCI hotplug. | No workaround is available. |
| showlogs(8) and showstatus(8) command on XSCF might report wrong I/O component | For Solaris 10 8/07 or earlier, this has been fixed in patch 125369-05. |
| management Architecture when faults in I/O | [Workaround] |
| devices occur. | To avoid this problem, issue the following commands on the domain. |
| | <pre># cd /usr/platform/SUNW,SPARC- Enterprise/lib/fm/topo/plugins</pre> |
| | # mv ioboard.so ioboard.so.orig |
| | # svcadm restart fmd |
| | If the following messages are displayed on the domain, contact a service engineer. |
| | Example: |
| | 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 |
| There is a low probability that a system panic can occur during trap processing of a TLB miss | For Solaris 10 8/07 or earlier, this has been fixed in patch 127111-08. |
| occur if the user stack is unmapped concurrently with the user process executing a flush windows trap (ta 3). The panic message will contain the following string: | No workaround is available. |
| | installed in External I/O Expansion Unit, if the External I/O Expansion Unit is configured using PCI hotplug. 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. There is a low probability that a system panic can occur during trap processing of a TLB miss for a user stack address. The problem can occur if the user stack is unmapped concurrently with the user process executing a flush windows trap (ta 3). The panic message |

TABLE 7 Solaris OS Issues Fixed in Solaris 10 5/08 (Continued)

| IADEL I | Solutio Co logico Fixed in Solutio 10 07 00 (Comi | in the control of the |
|---------|--|--|
| 6545685 | If the following message displayed on the OS console, memory degradation or XSB deconfiguration may occur in the subsequent reboot. | For Solaris 10 8/07 or earlier, this has been fixed in patch 127111-08. |
| | Example: mc-opl: WARNING: mc-opl rewrite timeout on /LSB0/B0 | [Workaround] Add the following to /etc/system and then reboot the domain: set mc-opl: mc_max_rewrite_loop = 20000 |
| 6546188 | The system panics when running hotplug (cfgadm(1M)) and DR operations (addboard(8) and deleteboard(8)) on the following cards: | For Solaris 10 8/07, this has been fixed in patch 127741-01. |
| | X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter | No workaround is available. |
| 6551356 | The system panics when running hotplug (cfgadm(1M)) to configure a previously unconfigured card. The message "WARNING: PCI Expansion ROM is not accessible" will be | For Solaris 10 8/07, this has been fixed in patch 127741-01. |
| | seen on the console shortly before the system panic. The following cards are affected by this defect: X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter | [Workaround] Perform cfgadm -c disconnect to completely remove the card. After waiting at least 10 seconds, the card may be configured back into the domain using the cfgadm -c configure command. |
| 6559504 | Messages of the form nxge: NOTICE: nxge_ipp_eccue_valid_check: rd_ptr = nnn wr_ptr = nnn will be observed on the console with the following cards: | For Solaris 10 8/07, this has been fixed in patch 127741-01. |
| | X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter | [Workaround] These messages can be safely ignored. |

TABLE 7 Solaris OS Issues Fixed in Solaris 10 5/08 (Continued)

| 6564934 | Performing a DR deleteboard(8) operation on a board which includes Permanent Memory when using the following network cards results in broken connections: | For Solaris 10 8/07, this has been fixed in patch 127741-01. |
|---------|--|--|
| | X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter | [Workaround] Re-configure the affected network interfaces after the completion of the DR operation. For basic network configuration procedures, refer to the ifconfig man page for more information. |
| 6568417 | After a successful CPU DR deleteboard(8) operation, the system panics when the following network interfaces are in use: | For Solaris 10 8/07 or earlier, this has been fixed in patch 127111-02. |
| | X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter | [Workaround] Add the following line to /etc/system and reboot the system: set ip:ip_soft_rings_cnt=0 |
| 6571370 | Use of the following cards have been observed to cause data corruption in stress test under laboratory conditions: | For Solaris 10 8/07, this has been fixed in patch 127741-01. |
| | X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter | [Workaround] Add the following line in /etc/system and reboot the system: set nxge:nxge_rx_threshold_hi=0 |
| 6584984 | On SPARC Enterprise M8000/M9000 servers, busstat(1M) command may cause rebooting of domains. | For Solaris 10 8/07 or earlier, this has been fixed in patch 127127-11. |
| | | No workaround is available. Do not use busstat(1M) command. Check for the availability of a patch for this defect. |
| 6589546 | prtdiag(8) command does not show all I/O devices of the following cards: | For Solaris 10 8/07 or earlier, this has been fixed in patch 127127-11. |
| | XSEFC402AF Sun StorageTek Enterprise Class 4Gb Dual-Port Fibre Channel PCI-E HBA XSEFC401AF Sun StorageTek Enterprise Class 4Gb Single-Port Fibre Channel PCI-E HBA | [Workaround] Use prtdiag -v for full output. |

Solaris OS Issues Fixed in Solaris 10 8/07

TABLE 8 lists issues that have been fixed in Solaris 10 8/07 OS. You might encounter them in supported releases earlier than Solaris 10 8/07.



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. This bug has been fixed by 125100-06 and Solaris 10 8/07.

TABLE 8 Solaris OS Issues Fixed in Solaris 10 8/07

| CR ID | Description | Workaround |
|---------|--|---|
| 6303418 | A SPARC Enterprise M9000 server with a single domain and 11 or more fully populated system boards might hang under heavy stress. | For Solaris 10 11/06, this has been fixed in patch 120011-01. |
| | | [Workaround] |
| | | Do not exceed 170 CPU threads. |
| | | Limit the number of CPU threads to one per CPU core by using the Solaris psradm command to disable the excess CPU threads. For example, disable all odd-numbered CPU threads. |
| 6416224 | System performance can degrade using a single NIC card with more than 5,000 connections. | For Solaris 10 11/06, this has been fixed in patch 120011-08. |
| | | [Workaround] |
| | | Use multiple NIC cards to split network connections. |
| 6441349 | The system may hang if there is an I/O error in the system. | For Solaris 10 11/06, this has been fixed in patch 120011-07. |
| | | No workaround is available. |
| 6485555 | On-board Gigabit Ethernet NVRAM corruption could occur due to a race condition. The window of opportunity for this race | For Solaris 10 11/06, this has been fixed in patch 120011-08. |
| | condition is very small. | No workaround is available. |

 TABLE 8
 Solaris OS Issues Fixed in Solaris 10 8/07 (Continued)

| CR ID | Description | Workaround | | |
|---------|---|--|--|--|
| 6496337 | The "cpumem-diagnosis" module may fail to load after uncorrectable error(UE) panic. | For Solaris 10 11/06, this has been fixed in patch 125369-05. | | |
| | Systems will function correctly but events normally automatically diagnosed by FMA | | | |
| | using this module will require manual | [Workaround] | | |
| | diagnosis. | If problem occurred, implement the following workaround: | | |
| | Example: | 1. Remove the following file. | | |
| | SUNW-MSG-ID: FMD-8000-2K, TYPE: | # rm /var/fm/fmd/ckpt/cpumem- | | |
| | Defect, VER: 1, SEVERITY: Minor | diagnosis/cpumem-diagnosis | | |
| | EVENT-TIME: Thu Feb 15 15:46:57 JST | 2. Restart fmd service. | | |
| | 2007 PLATFORM: SUNW, SPARC-Enterprise, CSN: BE80601007, HOSTNAME: col2-ff- | # svcadm restart fmd | | |
| | em7-d0 | 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. | | |
| | | # | | |
| | | # We haven't run savecore on a dump device yet | | |
| | | # | | |
| | | savedev=none | | |
| | | <pre>rm -f /var/fm/fmd/ckpt/cpumem- diagnosis/cpumem-diagnosis</pre> | | |
| | | # | | |
| 6498283 | Using the DR deleteboard(8) command while psradm operations are running on a domain might cause a system panic. | For Solaris 10 11/06, this has been fixed in patch 120011-07. | | |
| | | No workaround is available. | | |
| 6499304 | CPU isn't offlined and unexpected message is displayed on console when many correctable error(CE) occurs. | For Solaris 10 11/06, this has been fixed in patch 125369-05. | | |
| | Example: | [Workaround] | | |
| | SUNW-MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Fri Feb 2 18:31:07 JST 2007 | Check CPU status on XSCF. | | |
| | PLATFORM: SPARC-Enterprise, CSN: BE80601035, HOSTNAME: FF2-35-0 | | | |

 TABLE 8
 Solaris OS Issues Fixed in Solaris 10 8/07 (Continued)

| CR ID | Description | Workaround |
|---------|---|--|
| 6502204 | Unexpected error messages may be displayed on console on booting after CPU UE panic. Example: | For Solaris 10 11/06, this has been fixed in patch 125369-05. |
| | SUNW-MSG-ID: FMD-8000-11, TYPE: | [Workaround] |
| | Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Tue Jan 9 20:45:08 JST 2007 | If you see unexpected messages, use the XSCF command showdomainstatus(8) to check system status on XSCF. |
| | PLATFORM: SUNW, SPARC-Enterprise, CSN: 2030636002, HOSTNAME: P2-DC1-16-d0 | |
| 6502750 | Notification message for inserted or removed card by PCI hot plug may not output. | For Solaris 10 11/06, this has been fixed in patch 120011-08. |
| | | No workaround is available. |
| 6508432 | Many correctable errors (CE) may occur, and despite these are the correctable errors, domain may panic. | For Solaris 10 11/06, this has been fixed in patch 120011-08. |
| | 7.1 | [Workaround] |
| | | Set the following to /etc/system and then reboot the domain: |
| | | set pcie:pcie_aer_ce_mask = 0x2001 |
| 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. | For Solaris 10 11/06, this has been fixed in patch 120011-08. |
| | . , , , , , | [Workaround] |
| | | Do not insert a different type of PCI-X card on the same PCI slot by using PCI hot plug. |
| 6509337 | s10s_u3 wanboot fails - The server returned 416: Requested Range Not Satisfiable. | |
| 6510861 | When Dual-Channel Ultra320 SCSI Card (SE0X7SC2F, SE0X7SC2X) is mounted, correctable errors(CE) occur and system may | For Solaris 10 11/06, this has been fixed in patch 120011-08. |
| | panic. | [Workaround] |
| | | Add the following entry to the /etc/system file and then reboot the system: |
| | | set pcie:pcie_aer_ce_mask = 0x31c1 |

TABLE 8 Solaris OS Issues Fixed in Solaris 10 8/07 (Continued)

| CR ID | Description | Workaround | | |
|--|---|---|--|--|
| 6520990 | Domain may cause a panic when deleteboard(8) command for kernel board by using Dynamic Reconfiguration (DR). | For Solaris 10 11/06, this has been fixed in patch 120011-08. | | |
| | | [Workaround] | | |
| | | To mask this error, add the following entry to the /etc/system file. | | |
| | | <pre>set drmach:fmem_timeout = 30</pre> | | |
| 6527781 | The cfgadm command fails while moving the DVD/DAT drive between two domains. | For Solaris 10 11/06, this has been fixed in patch 125081-06. | | |
| | | No workaround is available. To reconfigure DVD/Tape drive, execute reboot -r from the domain exhibiting the problem. | | |
| 6530178 | DR addboard(8) command can hang. Once problem is observed, further DR operations are blocked. Recovery requires reboot of the | For Solaris 10 11/06, this has been fixed in patch 120011-07. | | |
| | domain. | No workaround is available. | | |
| 6530288 | Ap_Id format may not be shown correctly by cfgadm(1M) command. | For Solaris 10 11/06, this has been fixed in patch 120011-07. | | |
| | | No workaround is available. | | |
| 6534471 | Systems may panic/trap during normal operation. | For Solaris 10 11/06, this has been fixed in patch 125100-06. | | |
| | | If a patch is not available, disable the kernel large page sTLB programming. In the file /etc/system, change the variable heaplp_use_stlb to 0: set heaplp_use_stlb=0 | | |
| 6535564 | PCI hot plug to PCI slot #0, #1 or External I/O Expansion Unit may fail on XSB added by DR. | For Solaris 10 11/06, this has been fixed in patch 120011-08. | | |
| | | [Workaround] Use DR instead of PCI hot plug if need to add or remove PCI card on the XSB. | | |
| Under Solaris 10 11/06, there is a low probability of a domain panic during reboot when the Sun Quad GbE UTP x8 PCIe (X4447A-Z) card is present in a domain. | | No workaround is available. | | |

 TABLE 8
 Solaris OS Issues Fixed in Solaris 10 8/07 (Continued)

| CR ID | Description | Workaround | | |
|---------|--|--|--|--|
| 6539909 | Under Solaris 10 11/06, do not use the following I/O cards for network access when you are using the boot net install command to install the Solaris | Use an alternate type of network card or onboard network device to install the Solaris OS via the network. | | |
| | OS: | | | |
| | X4447A-Z/X4447A-Z, PCIe Quad-port Gigabit Ethernet Adapter UTP | | | |
| | X1027A-Z/X1027A-Z, PCIe Dual 10 Gigabit Ethernet Fiber XFP | | | |
| 6542632 | Memory leak in PCIe module if driver attach fails. | For Solaris 10 11/06, this has been fixed in patch 120011-09. | | |
| | | No workaround is available. | | |

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 M8000/M9000 servers software documentation.

The corrections for *SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF Reference Manual*, if not otherwise specified, also apply to the man pages which XSCF provides. And they supersede the information on the man pages.

TABLE 9 lists known documentation updates.

 TABLE 9
 Software Documentation Updates

| Title | Page Number | Update | | |
|--|----------------------|--|--|--|
| SPARC Enterprise M3000/M4000/M5000/ M8000/M9000 Servers XSCF User's Guide | 2-34 | The description, "When you set the lockout time to 0 minutes to disable the account lockout function, the success of the first login with any user account will disable the function, whereas the failure of the first login will not disable the function. To disable the account lockout function you must set 0 minutes again.", will be changed as follows: "setloginlockout -s 0 will disable the account lockout. When the account lockout is disabled, a user can attempt to login, and fail, an unlimited number of times. If a user needs to access their locked account before the lockout time is complete they must get an administrator to disable the account lockout to allow them to login and then re-enable the lockout | | |
| | 3-4 | by setting a lockout time." The description, "The domain console is not forcibly logged out.", will be changed as follows: "When you return to XSCF shell console without logging out from the domain, the return causes automatically logging out from the domain. For detailed instructions on setting the session timeout value for domain console, see the Solaris OS manual." | | |
| SPARC Enterprise M3000/M4000/M5000/ M8000/M9000 Servers XSCF Reference Manual | | New commands, the setloginlockout(8) and the showloginlockout(8) will be added. For details, see the setloginlockout(8) and the showloginlockout(8) man pages. | | |
| | setssh(8) command | The following new option for access control from domain to the SSH service via DSCP will be added: -m dscp=mode For details, see the setssh(8) man pages. | | |

 TABLE 9
 Software Documentation Updates (Continued)

| Title | Page Number | Update |
|--|-----------------------|--|
| SPARC Enterprise M3000/M4000/M5000/ | showenvironm ent(8) | The power operand for displaying the power consumption information will be added. |
| M8000/M9000 Servers XSCF Reference Manual | command | For details, see the showenvironment(8) man pages. |
| | showssh(8) command | The description of displaying the current settings of the SSH service will be added. |
| | traceroute(8) command | The following description appears under Privileges but is incorrect: |
| | | • To execute the command to DSCP address: fieldeng |
| | | The following description should appear under OPERANDS but does not: |
| | | When used to specify DSCP address to host, an error occurs. |

Identifying Degraded Memory in a System

- 1. Log in to XSCF.
- 2. Type the following command:

XSCF> showstatus

The following example identifies that DIMM number 00A on CMU#3 has degraded memory..

XSCF> showstatus

CMU#3 Status:Normal;

* MEM#00A Status:Degraded;

Identifying Different Memory Sizes in a System Board

To identify if the domain contains system boards with different memory sizes, you can use either of the following commands to display the list of memory sizes:

- showdevices(8) command on the XSCF
- prtdiag(1M) command on the domain

Using the showdevices Command

1. Log in to XSCF.

2. Type the following command:

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

The following example displays 00-0 has 64GB of memory while the other system boards have 16GB.

| | F> sh ory: | owdevice | s -d 1 | | | | | |
|-----|-------------------|----------|--------|--------------------|--------|--------|---------|-----------|
| | | | | | | | | |
| | | board | perm | base | domain | target | deleted | remaining |
| DID | XSB | mem MB | mem MB | address | mem MB | XSB | mem MB | mem MB |
| 01 | 00-0 | 63680 | 0 | 0x0000004000000000 | 260288 | | | |
| 01 | 03-0 | 16384 | 7384 | 0x0000034000000000 | 260288 | | | |
| 01 | 03-1 | 16384 | 0 | 0x0000030000000000 | 260288 | | | |
| 01 | 03-2 | 16384 | 0 | 0x000002c000000000 | 260288 | | | |
| 01 | 03-3 | 16384 | 0 | 0x0000028000000000 | 260288 | | | |
| | | | | | | | | |

Using the prtdiag Command to Identify Memory Size

■ On the domain, execute the prtdiag command.

```
# prtdiag
```

The following example displays different memory sizes.

| # pr | # prtdiag | | | | | | |
|-------|-----------|------------|--------------|-----------|-------------|------------|--|
| ===== | | ====== Mem | ory Configur | ation === | ========= | ======= | |
| | Memory | Available | Memory | DIMM | # of Mirror | Interleave | |
| LSB | Group | Size | Status | Size | DIMMs Mode | Factor | |
| | | | | | | | |
| 00 | A | 32768MB | okay | 2048MB | 16 no | 8-way | |
| 00 | В | 32768MB | okay | 2048MB | 16 no | 8-way | |
| 03 | A | 8192MB | okay | 2048MB | 4 no | 2-way | |
| 03 | В | 8192MB | okay | 2048MB | 4 no | 2-way | |
| 04 | A | 8192MB | okay | 2048MB | 4 no | 2-way | |
| 04 | В | 8192MB | okay | 2048MB | 4 no | 2-way | |
| 05 | A | 8192MB | okay | 2048MB | 4 no | 2-way | |
| 05 | В | 8192MB | okay | 2048MB | 4 no | 2-way | |
| 06 | A | 8192MB | okay | 2048MB | 4 no | 2-way | |

Identifying Permanent Memory in a Target Board

- 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*.

| XSCI | F> sho | wdevices | -d 0 | | | |
|------|--------|----------|--------|--------------------|--------|--------------------------|
| | | | | | | |
| Memo | ory: | | | | | |
| | | | | | | |
| | | board | perm | base | domain | target deleted remaining |
| DID | XSB | mem MB | mem MB | address | mem MB | XSB mem MB 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(8) command or the moveboard(8) command, the following notice appears:

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

CPU Upgrade

This section describes the procedure to mount the SPARC64 VII processor on the SPARC Enterprise M8000/M9000 server.

- Adding a New CMU Equipped with SPARC64 VII as a New Domain
- Upgrading an On-CMU SPARC64 VI to SPARC64 VII, or Adding SPARC64 VII to an Existing CMU, to an Existing Domain Configured with SPARC64 VI
- Adding a New CMU Equipped with SPARC64 VII to an Existing Domain Configured with SPARC64 VI

Installation Notes

Note – Before upgrading firmware to XCP 1071 or later, refer to "Updating to XCP 1081" on page 4.



Caution – You must complete the upgrades to the XCP firmware and to Solaris before inserting SPARC 64 VII processors into the chassis.

Updating the OpenBoot PROM Firmware With Processor Upgrade

If you have added SPARC64 VII processors to a domain and upgraded from an XCP version earlier than 1070, you must restart the domain to complete the update to the OpenBoot PROM firmware in the target domain.

Adding SPARC64 VII Processors to a Domain Using DR

Before adding SPARC64 VII CPUs to a domain using dynamic configuration (DR) for the first time, you must already have performed the following steps:

- 1. Upgrade to XCP 1071 or later and a compatible version of Solaris.
- 2. Reboot the domain.

Adding a New CMU Equipped with SPARC64 VII as a New Domain

- 1. Log in to the XSCF on an account with platform administrative privileges.
- 2. Use the showstatus(8) command to confirm that a component in Faulted or Deconfigured status doesn't exist.

XSCF> showstatus

If no failures found, the following message appears: "No failures found in System Initialization." In case of other messages, contact a service engineer before proceeding to the next step.

- 3. Change the key position on the operator panel from Locked to Service.
- 4. Collect an XSCF snapshot to archive system status prior to upgrade.

This will be help in case any problem occurred in this procedure.

XSCF> snapshot -t user@host:directory

5. Update the XCP version to 1071 or later.

Before updating the XCP, be sure to see "Updating to XCP 1081" on page 4. For the XCP updating procedures, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

6. After updating the XCP, reset the XSCF.

XSCF> rebootxscf

- 7. After resetting the XSCF, log in to the XSCF again.
- 8. Mount the CPU module (CPUM) on the CMU for add-on.

For the procedure, see the description about the CPU module installation in Section 6.4.1, "Replacing a CPU module" in the *SPARC Enterprise M8000/M9000 Servers Service Manual*.

- 9. Mount the CMU, described in step 8, on the server.
 - a. Executing the addfru(8) command and select "CMU/IOU" from the maintenance menu.

XSCF> addfru

b. Perform the operation according to the instructions displayed in the maintenance menu, referring to "6.2 Active Replacement and Hot Replacement" in SPARC Enterprise M8000/M9000 Servers Service Manual.

Note – Do not fail to execute the diagnosis of newly mounted CMU in the maintenance menu of addfru(8) command.

10. Confirm that the mounted CPU module has been recognized by the server, and the error indicator asterisk (*) is not displayed.

```
XSCF> showhardconf -M
```

11. Confirm no abnormality occurred by using showlogs error -v and showstatus(8) commands.

```
XSCF> showlogs error -v
XSCF> showstatus
```

If you encounter any hardware abnormality of the XSCF contact a service engineer.

- 12. Move the key position on the operator panel from Service to Locked.
- 13. Sets the following for the CMU.
 - Set up XSB.
 - Set up the domain
 - Set up the CPU operational mode of the domain.

For each setting, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

14. Use the setdomainmode(8) command, disable the autoboot function of the domain.

For detail, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

15. Power on the domains.

```
XSCF> poweron -d domain_id
```

16. Confirm that the target domain has been correctly started.

```
XSCF> showlogs power
```

17. Confirm no abnormality occurred by using showlogs error -v and showstatus(8) commands.

```
XSCF> showlogs error -v
XSCF> showstatus
```

If you encounter any hardware abnormality of the XSCF contact a service engineer.

- 18. Install Solaris 10 5/08 or later.
- 19. Use the setdomainmode(8) command, enable the autoboot function of the domain.

For detail, see the *SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide*. The autoboot function is applied by a domain reboot.

Upgrading an On-CMU SPARC64 VI to SPARC64 VII, or Adding SPARC64 VII to an Existing CMU, to an Existing Domain Configured with SPARC64 VI

- 1. When the Solaris OS version is Solaris 10 8/07, upgrade it to Solaris 10 5/08 or apply the mandatory patches described in "Solaris OS Patch Information" on page 3.
- 2. To use SPARC64 VII processors, apply the relevant patches to the software in use, if necessary.
- 3. Log in to the XSCF on an account with platform administrative privileges.
- 4. Use the showstatus(8) command to confirm that a component in Faulted or Deconfigured status doesn't exist.

```
XSCF> showstatus
```

If no failures found, the following message appears: "No failures found in System Initialization." In case of other messages, contact a service engineer before proceeding to the next step.

5. Turn off the power to a domain assigned the CMU of which you upgrade or add the CPU.

```
XSCF> poweroff -d domain_id
```

6. Confirm that the target domain stopped.

```
XSCF> showlogs power
```

7. Change the key position on the operator panel from Locked to Service.

8. Collect an XSCF snapshot to archive system status prior to upgrade.

This will be help in case any problem occurred in this procedure.

```
XSCF> snapshot -t user@host:directory
```

9. Update the XCP version to 1071 or later.

Before updating the XCP, be sure to see "Updating to XCP 1081" on page 4. For the XCP updating procedures, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

10. After updating the XCP, reset the XSCF.

```
XSCF> rebootxscf
```

- 11. After resetting the XSCF, log in to the XSCF again.
- 12. Power on the target domain, and apply OpenBoot PROM firmware.

```
XSCF> poweron -d domain_id
```

It stops at ok prompt. It is not necessary to start Solaris OS.

13. Check the updated OpenBoot PROM version.

The OpenBoot PROM version of XCP 1081 is 02.08.0000.

```
XSCF> version -c cmu -v

DomainID 00 : 02.03.0000
DomainID 01 : 02.03.0000
DomainID 02 : 02.08.0000
DomainID 03 : 02.08.0000
...
DomainID 15 : 02.03.0000

XSB#00-0 : 02.03.0000 (Current), 02.02.0000 (Reserve)
XSB#00-1 : 02.03.0000 (Current), 02.02.0000 (Reserve)
XSB#00-2 : 02.03.0000 (Current), 02.02.0000 (Reserve)
XSB#00-3 : 02.03.0000 (Current), 02.02.0000 (Reserve)
XSB#01-0 : 02.03.0000 (Reserve), 02.08.0000 (Current)
XSB#01-1 : 02.03.0000 (Reserve), 02.08.0000 (Current)
XSB#01-2 : 02.03.0000 (Reserve), 02.08.0000 (Current)
XSB#01-3 : 02.03.0000 (Reserve), 02.08.0000 (Current)
```

In case that the OpenBoot PROM version of the XSB to which the resource of the target CMU has been assigned is not displayed as 02.08.0000, contact a service engineer.

14. Turn off the power to the target domain.

```
XSCF> poweroff -d domain_id
```

- 15. Upgrade an on-CMU SPARC64 VI processors to SPARC64 VII processors, or add SPARC64 VII processors to an existing CMU.
 - For upgrading the CPU, operate by hot replacement, referring to "6.2 Active Replacement and Hot Replacement" in *SPARC Enterprise M8000/M9000 Servers Service Manual*.
 - For adding the CPU, operate by hot replacement, referring to "6.2 Active Replacement and Hot Replacement" in *SPARC Enterprise M8000/M9000 Servers Service Manual*.

Note — Do not fail to execute the diagnosis of newly mounted CMU in the maintenance menu of replacefru(8) command.

16. Confirm that the mounted CPU module has been recognized by the server, and the error indicator asterisk (*) is not displayed.

```
XSCF> showhardconf -M
```

17. Confirm no abnormality occurred by using showlogs error -v and showstatus(8) commands.

```
XSCF> showlogs error -v
XSCF> showstatus
```

If you encounter any hardware abnormality of the XSCF contact a service engineer.

- 18. Move the key position on the operator panel from Service to Locked.
- 19. In case of addition, sets the following for the CMU.
 - Set up XSB.
 - Set up the LSB.
 - Add the XSB to the domain.

For each setting, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

20. Set up and confirm the CPU operational mode of the domain.

For detail, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

21. Power on the target domains.

```
XSCF> poweron -d domain_id
```

22. Confirm that the target domain has been correctly started.

```
XSCF> showlogs power
```

23. Confirm no abnormality occurred by using showlogs error -v and showstatus(8) commands.

```
XSCF> showlogs error -v
XSCF> showstatus
```

If you encounter any hardware abnormality of the XSCF contact a service engineer.

Adding a New CMU Equipped with SPARC64 VII to an Existing Domain Configured with SPARC64 VI

- 1. When the Solaris OS version is Solaris 10 8/07, upgrade it to Solaris 10 5/08 or apply the mandatory patches described in "Solaris OS Patch Information" on page 3.
- 2. To use SPARC64 VII processors, apply the relevant patches to the software in use, if necessary.
- 3. Log in to the XSCF on an account with platform administrative privileges.
- 4. Use the showstatus(8) command to confirm that a component in Faulted or Deconfigured status doesn't exist.

```
XSCF> showstatus
```

If no failures found, the following message appears: "No failures found in System Initialization." In case of other messages, contact a service engineer before proceeding to the next step.

5. Turn off the power to a domain assigned the CMU of which you add the CPU.

```
XSCF> poweroff -d domain_id
```

6. Confirm that the target domain stopped.

```
XSCF> showlogs power
```

- 7. Change the key position on the operator panel from Locked to Service.
- 8. Collect an XSCF snapshot to archive system status prior to upgrade.

This will be help in case any problem occurred in this procedure.

```
XSCF> snapshot -t user@host:directory
```

9. Update the XCP version to 1071 or later.

Before updating the XCP, be sure to see "Updating to XCP 1081" on page 4. For the XCP updating procedures, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

10. After updating the XCP, reset the XSCF.

```
XSCF> rebootxscf
```

- 11. After resetting the XSCF, log in to the XSCF again.
- 12. Power on the target domain, and update OpenBoot PROM firmware.

```
XSCF> poweron -d domain_id
```

It stops at ok prompt. It is not necessary to start Solaris OS.

13. Check the updated OpenBoot PROM version.

The OpenBoot PROM version of XCP 1081 is 02.08.0000.

```
XSCF> version -c cmu -v

DomainID 00 : 02.03.0000
DomainID 01 : 02.03.0000
DomainID 02 : 02.08.0000
DomainID 03 : 02.08.0000
...
DomainID 15 : 02.03.0000

XSB#00-0 : 02.03.0000 (Current), 02.02.0000 (Reserve)
XSB#00-1 : 02.03.0000 (Current), 02.02.0000 (Reserve)
XSB#00-2 : 02.03.0000 (Current), 02.02.0000 (Reserve)
XSB#00-3 : 02.03.0000 (Current), 02.02.0000 (Reserve)
XSB#01-0 : 02.03.0000 (Reserve), 02.08.0000 (Current)
XSB#01-1 : 02.03.0000 (Reserve), 02.08.0000 (Current)
XSB#01-2 : 02.03.0000 (Reserve), 02.08.0000 (Current)
XSB#01-3 : 02.03.0000 (Reserve), 02.08.0000 (Current)
```

In case that the OpenBoot PROM version of the XSB to which the resource of the target CMU has been assigned is not displayed as 02.08.0000, contact a service engineer.

14. Turn off the target domain.

```
XSCF> poweroff -d domain_id
```

15. Mount the CPU module (CPUM) on the CMU for add-on.

For the procedure, see the description about the CPU module installation in Section 6.4.1, "Replacing a CPU module" in the SPARC Enterprise M8000/M9000 Servers Service Manual.

- 16. Mount the CMU, described in step 15, on the server. .
 - a. Executing the addfru(8) command and select "CMU/IOU" from the maintenance menu.

```
XSCF> addfru
```

b. Perform the operation according to the instructions displayed in the maintenance menu, referring to "6.2 Active Replacement and Hot Replacement" in SPARC Enterprise M8000/M9000 Servers Service Manual.

Note – Do not fail to execute the diagnosis of newly mounted CMU in the maintenance menu of addfru(8) command.

17. Confirm that the mounted CPU module has been recognized by the server, and the error indicator asterisk (*) is not displayed.

```
XSCF> showhardconf -M
```

18. Confirm no abnormality occurred by using showlogs error -v and showstatus(8) commands.

```
XSCF> showlogs error -v
XSCF> showstatus
```

If you encounter any hardware abnormality of the XSCF contact a service engineer.

- 19. Move the key position on the operator panel from Service to Locked.
- 20. Sets the following for the CMU.
 - Set up XSB.
 - Set up the LSB.
 - Add the XSB to the domain.

• Set up the CPU operational mode of the domain.

For each setting, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

21. Power on the target domains.

```
XSCF> poweron -d domain_id
```

22. Confirm that the target domain has been correctly started.

```
XSCF> showlogs power
```

23. Confirm no abnormality occurred by using showlogs error -v and showstatus(8) commands.

```
XSCF> showlogs error -v
XSCF> showstatus
```

If you encounter any hardware abnormality of the XSCF contact a service engineer.