

## Sun Fire<sup>™</sup> V480 Server Product Notes

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### Sun Fire V480 Server Product Notes

These Product Notes apply to the Sun Fire<sup>TM</sup> V480 server. Included in these notes is important information about installation, features, and known system limitations that arrived too late for publication in other documents. Numbers in brackets are Sun internal bug identification numbers.

## Accessing the Latest Documentation

You can view and print a broad selection of Sun documentation, including localized versions, at:

http://www.sun.com/documentation

You can also view and print Sun Fire V480 server documentation at:

http://www.sun.com/products-n-solutions/hardware/docs/Servers/

Check this site periodically for the latest revisions of Sun Fire V480 server product documentation, including the latest version of these Product Notes.

## System Software Requirements

The Sun Fire V480 server requires the Solaris<sup>TM</sup> 8 2/02 operating environment or a later Solaris release that supports the server. To verify that the proper version of the operating environment is installed on your Sun Fire V480 server, examine the file /etc/release. This file should contain the text "Solaris 8 2/02" or identify a subsequent compatible Solaris release.

# Required and Recommended Software Patches

This section lists required and recommended software patches for the Sun Fire V480 server. You can obtain these patches from your Sun authorized sales representative or service provider or by downloading them from the SunSolve Online<sup>SM</sup> web site at the following URL:

http://sunsolve.sun.com

For patch installation instructions, see the README file that accompanies each patch.

# Required Patches for the Solaris 8 2/02 Operating Environment

#### Sun Fire V480 Required Patches for Solaris 8 2/02 Operating Environment

Patch ID	Description
*112396-01 or later	SunOS 5.8: /usr/bin/fgrep command patch
*108987-08 or later	SunOS 5.8: patchadd and patchrm command patch
111883-10 or later	Solaris Ethernet driver patch
109962-07 or later	FC-AL disk drive firmware patch
108528-15 or later	SunOS 5.8: kernel update patch
112953-02 or later	SunOS 5.8: supplemental kernel update patch

<sup>\*</sup>You must install Patch 112396 and Patch 108987 before you install any other patch.

# Recommended Patches for the Solaris 8 2/02 Operating Environment

**Note** — Certain patches are available to contract customers only. If you are unable to access a patch from the SunSolve Online web site, you can obtain the patch from your local Solution Center. North American customers can call 1-800-USA-4SUN.

#### Sun Fire V480 Recommended Patches for Solaris 8 2/02 Operating Environment

Patch ID	Description
111500-06 or later	Sun™ Remote System Control patch
112336-01 or later	SunVTS™ 4.6 patch
111792-04 or later	Solaris environmental monitoring patch
111793-03 or later	Sun Fire V480 prtdiag command patch
*111412-08 or later	SunOS 5.8: Sun StorEdge™ Traffic Manager (MPxIO) patch
*111413-07 or later	SunOS 5.8: luxadm, liba5k and libg_fc patch
*111095-08 or later	SunOS 5.8: fctl/fp/fcp/usoc driver patch
*111096-04 or later	SunOS 5.8: fcip driver patch
*111097-10 or later	SunOS 5.8: qlc driver patch

<sup>\*</sup> Patches 111412, 111413, 111095, 111096, and 111097 require the package SUNWsan (SAN Foundation Kit). The SUNWsan package is available via the Sun Download Center at the following URL:

http://www.sun.com/storage/san/

From that site, download the latest SAN release software/firmware upgrade.

Install the SUNWsan package first, followed by Patches 111412, 111413, 111095, 111096, and 111097 in the order listed. *Do not reboot the system until all packages are installed.* 

### Required Patches for the Solaris 9 Operating Environment

#### Sun Fire V480 Required Patches for Solaris 9 Operating Environment

Patch ID	Description
113184-01 or later	SunOS 5.9: supplemental kernel update patch
109962-07 or later	FC-AL disk drive firmware patch
113034-02 or later	OpenBoot firmware patch

## Recommended Patches for the Solaris 9 Operating Environment

**Note** — Certain patches are available to contract customers only. If you are unable to access a patch from the SunSolve Online web site, you can obtain the patch from your local Solution Center. North American customers can call 1-800-USA-4SUN.

#### Sun Fire V480 Recommended Patches for Solaris 9 Operating Environment

Patch ID	Description
113500-01 or later	SunVTS 5.0 patch
113044-01 or later	SunOS 5.9: cfgadm fp command plug-in library patch
112764-02 or later	SunOS 5.9: Sun Quad Fast Ethernet qfe driver patch
112817-03 or later	SunOS 5.9: GigaSwift Ethernet 1.0 driver patch
*113039-01 or later	SunOS 5.9: Sun StorEdge Traffic Manager (MPxIO) patch
*113040-02 or later	SunOS 5.9: fctl/fp/fcp/usoc driver patch
*113041-01 or later	SunOS 5.9: fcip driver patch
*113042-02 or later	SunOS 5.9: qlc driver patch
*113043-01 or later	SunOS 5.9: luxadm, liba5k and libg_fc patch

<sup>\*</sup> Patches 113039, 113040, 113041, 113042, and 113043 require the package SUNWsan (SAN Foundation Kit). The SUNWsan package is available via the Sun Download Center at the following URL:

http://www.sun.com/storage/san/

From that site, download the latest SAN release software/firmware upgrade.

Install the SUNWsan package first, followed by Patches 113039, 113040, 113041, 113042, and 113043 in the order listed. *Do not reboot the system until all packages are installed.* 

## Latest Sun Fire V480 Server OpenBoot Firmware Patch

The OpenBoot<sup>™</sup> firmware image on your system was current at the time of manufacture but later versions may now exist. Use one of the following methods to determine the system's current OpenBoot firmware version:

While the Solaris operating environment is running, type the following command:

# /usr/sbin/prtconf -V

Or.

From the ok prompt, type the following command:

ok .version

Once you have determined the version of the OpenBoot firmware currently installed on the system, compare it to the latest available version of OpenBoot firmware.

The Patch ID for the OpenBoot firmware is 113034-02 or later. To obtain the latest patch for your system, contact your authorized Sun service provider or go to the SunSolve Online web site at the following URL:

http://sunsolve.sun.com

For flash update instructions, see the README file that accompanies each patch.

**Note** – Patch 113034-02 is required and should be installed on any system with OpenBoot firmware version 4.6.4 before installing or upgrading to the Solaris 9 operating environment.

# Update the ce Ethernet Driver on an Installation Server

The ce Ethernet driver for the Solaris 8 2/02 operating environment has been updated. If you are performing a network installation, you need to apply Patch 111883-10 or later to the net install image on the installation server before you install the client systems.

#### 1. Download Patch 111883-10 or later.

See "Required and Recommended Software Patches" on page 2 for information about where to obtain the patch.

2. Patch the boot image on the installation server. Type the following command:

```
# patchadd -C <Install-Image-Path>/Solaris_8/Tools/Boot/ <patch-path>
```

- 3. Type the boot net command at the ok prompt on the client system to start the installation.
- 4. After the installation is complete, apply Patch 111883-10 or later on the newly created system.

## Issue for JumpStart Installations

The controller ID for the internal disks on a Sun Fire V480 server is not c0 by default. Using the disk device names c0t0d0 or c0t1d0 in the configuration files may cause a JumpStart<sup>TM</sup> software installation to fail.

Before you perform a JumpStart installation on a Sun Fire V480 server, make sure that the disk controller ID for the internal disks matches your system configuration, for example, cltodo.

If necessary, edit the configuration files using the correct controller number in the disk device name before proceeding to a JumpStart installation.

### **RSC** Documentation Location

After you install the Solaris operating environment and the software from the Supplement CD, you have access to the online version of Sun Remote System Control (RSC) documentation. You can find the PDF version of the *Sun Remote System Control 2.2 User's Guide* in the following location within the Solaris operating environment:

/opt/rsc/doc/<locale>/pdf/user\_guide.pdf

After you install RSC software on a Microsoft Windows-based PC, you can find the appropriate User's Guide in the following location within the Microsoft Windows environment:

C:\Program Files\Sun Microsystems\
Remote System Control\doc\<locale>\pdf\user\_quide.pdf

RSC documentation is also included on the Sun Fire V480 Documentation CD that is shipped with the server.

# Sun GigaSwift Ethernet Adapter Documentation

The Sun GigaSwift Ethernet Adapter Installation and User's Guide, Sun Part No. 816-1702-11, has been updated to correct installation errors and ambiguities present in earlier versions.

Although this guide primarily provides information about installing and using the Sun GigaSwift Ethernet UTP adapter and the Sun GigaSwift Ethernet MMF adapter, it also provides a reference on how to configure the system's Ethernet device driver software.

The Sun GigaSwift Ethernet Adapter Installation and User's Guide provides detailed information on how to create a ce.conf file in the /platform/sun4u/kernel/drv directory. This is the recommended way to configure the onboard network interfaces for the Sun Fire V480 server. Setting the Sun GigaSwift Ethernet adapter driver parameters using the /etc/system file is not supported.

This guide is available online at the following URL:

http://www.sun.com/products-n-solutions/hardware/docs/Network\_Connectivity

## Caution on the Use of PCI Cards Not Specifically Qualified by Sun on the Sun Fire V480 Platform

In order to ensure robust system operation, it is extremely important to ensure that any PCI cards and associated drivers installed in a Sun Fire V480 system are qualified by Sun for use on the platform. It is possible for interactions to occur between cards and drivers on a specific bus that can lead to potential system panics or other negative outcomes if the card/driver solution is not qualified by Sun.

For an updated listing of qualified PCI cards and configurations for the Sun Fire V480 system, contact your authorized Sun sales representative or service provider. For additional information, refer to the web site at the following URL:

http://www.sun.com/io

## Fan Trays Are Not Hot-Pluggable: Do Not Attempt to Remove When System Is Running

The CPU Fan Tray (FT 0) and the PCI Fan Tray (FT 1) are not components that you can "hot-plug"; that is, do not remove either fan tray while the system is running. Serious injury can result if you attempt to remove a fan while the system is turned on.

# Instructions for Installing a Server Into a Cabinet Requiring M6 Screws

To install a server into a cabinet requiring M6 screws, follow the instructions in the *Sun Fire V480 Server Setup and Rackmounting Guide*. Where the instructions specify 10-32 screws, use the M6 screws included in the rack kit box. Use a Phillips No. 2 screwdriver with the M6 screws. Replace the 10-32 captive screws (if present) on the front trim panel with M6 screws before you install the server into the cabinet.

## **New Electrical Specifications**

The following table provides the electrical specifications for a Sun Fire V480 server. This table replaces the electrical specifications provided in Appendix C of the *Sun Fire V480 Server Parts Installation and Removal Guide* and in Appendix B of the *Sun Fire V480 Server Administration Guide*.

Parameter	Value	
Input		
Nominal Frequency Range	50 or 60 Hz	
Nominal Voltage Range	Auto ranging 100-240 VAC	
Maximum Current AC RMS	10A @ 100-120 VAC 5A @ 200-240 VAC	
Maximum AC Power Consumption	1100W	
Maximum Heat Dissipation	3751 BTU/hr	

### **Software Notes**

The following software problems have been identified in this release. In most cases, no workaround is necessary; otherwise, workaround information follows the explanation of the problem.

# Do Not Operate the On-board Ethernet Ports in Gigabit Half-Duplex Mode

The on-board Ethernet interfaces do not support Gigabit half-duplex (1000HDX) mode. Gigabit full-duplex mode is fully supported.

### picld Error Running SunVTS env5test

You might see the following error when you run the SunVTS env5test test:

```
failure to open semaphore /psvc_sema_rdwr [4487110]
```

Workaround

#### 1. Type the following commands:

```
# /etc/init.d/picld stop
# /etc/init.d/picld start
```

#### 2. Restart SunVTS software.

# Incorrect Output When Using rsc bootmode -u When diag-switch? Is true

When diag-switch? is set to true and the rsc bootmode -u command is used, the output correctly starts out in the RSC console but switches to the serial port when you boot the Solaris operating environment. [4523025]

### Nomenclature Notes

### ce0 and ce1 Nomenclature

The Sun Fire V480 server provides two on-board Ethernet interfaces, which reside on the system centerplane and operate at 10 Mbps, 100 Mbps, and 1000 Mbps. Two back panel ports with RJ-45 connectors provide access to these interfaces.

In certain software output, these Ethernet interfaces are referred to as ce0 and ce1:

- ce is the name of the Ethernet device driver.
- 0 and 1 are the two instance numbers.

### hba and io-bridge Are Used Interchangeably

In POST and OpenBoot firmware, the terms hba and io-bridge are used interchangeably as device identifiers.

### **Documentation Errata**

### Correction to the Part Number for a CPU/ Memory Module

The part number for the CPU/Memory module listed in the CPU-Side Components section in Appendix F of the *Sun Fire V480 Server Parts Installation and Removal Guide* is incorrect.

The correct part number for the CPU/Memory module is: F501-6334.

# Correction to the Part Number for a 73-Gbyte FC-AL Disk Drive

The part number for the 73-Gbyte FC-AL disk drive listed in the Front Panel Components section in Appendix F of the *Sun Fire V480 Server Parts Installation and Removal Guide* is incorrect.

The correct part number for the 73-Gbyte FC-AL disk drive is: F540-5408.