Sun Blade™ 2500 Product Notes

(Red)

Red

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Sun Blade 2500 Product Notes

The *Sun Blade 2500 Product Notes (Red)*, 816-1001, contain late-breaking information about changes to hardware, software, and documentation that became known after the documentation set was published.

Note – This publication describes the changes made to hardware, software, and documentation for Sun Blade™ 2500 workstations with red bezels. If you have a Sun Blade 2500 workstation with a silver bezel, refer to *Sun Blade 2500 Product Notes (Silver)*, 817-5121.

Note – Both red- and silver-bezeled versions of the Sun Blade 2500 documentation are available at:
`http://www.sun.com/products-n-solutions/hardware/docs/`

These product notes include:

- "Hardware Information" on page 2
- "Software and Firmware Information" on page 4
- "Documentation Information" on page 11

Hardware Information

Note – Before removing or installing any hardware, software, or firmware components read all of the *Sun Blade 2500 Product Notes,* and the documentation for that component.

Note – Before removing or installing any hardware components, read all of the contents of the *Sun Blade 2500 Workstation Safety and Compliance Guide,* 816-2061.

CD-RW and DVD-ROM Optical Drives

Refer to Chapter 12.2.3, "Installing the DVD-ROM Drive" in the *Sun Blade Service, Diagnostics, and Troubleshooting Manual*, 816-0996. All Sun Blade 2500 workstation optical drives must have their jumpers configured for MA (MASTER) mode operation. If necessary, configure the drive by placing the jumper in the MA (MASTER) position.

Memory Upgrade and Firmware Compatibility

Note – If a memory upgrade is not compatible with the system OpenBoot™ PROM, the workstation will beep three times and power off.

Checking Firmware Version

When your workstation boots, OpenBoot PROM checks for system compatible DIMM pairs. Before upgrading memory, verify the version of OpenBoot PROM installed on your system by typing the following command from a terminal window:

```
%  prtconf -V
```

For example:

```
% prtconf -V
OBP 4.9.4 2003/05/14 19:12
```

In this example, OpenBoot PROM version 4.9.4 is installed.

Determining Proper DIMM Pair Part Numbers

Use TABLE 1 to determine which DIMM pair memory upgrades to order for your system.

TABLE 1   DIMM Pair Memory Upgrades

OpenBoot PROM Version	DIMM Pairs	Sun Part Number
4.9.4	2 x 512 MB DIMMs	595-6874-01 (x-option)
	2 x 1 GB DIMMs	595-6875-01 (x-option)
4.9.5	2 x 512 MB DIMMs	595-7498-01 (x-option)
	2 x 1 GB DIMMs	595-7499-01 (x-option)
4.9.7	2 x 512 MB DIMMs	595-7498-01 (x-option)
	2 x 1 GB DIMMs	595-7499-01 (x-option)

SCSI Host Adapter Cable

An UltraSCSI host adapter cable is now available from Sun. This cable supports the 72 GB DAT tape drive and the single channel, single ended UltraSCSI PCI host adapter card. TABLE 2 describes the part numbers for the UltraSCSI host adapter cable, 72 GB tape drive assembly, and UltraSCSI PCI host adapter card.

TABLE 2   SCSI Host Adapter Cable, 72 GB DAT Tape Drive and UltraSCSI PCI Host Adapter Card Part Numbers

Part Name	Part Number
SCSI Host Adapter Cable	370-7629-01
72 GB DAT Tape Drive	595-7384-01 (x-option)
UltraSCSI PCI Host Adapter Card	595-5377-01 (x-option)

Sun XVR-600 Graphics Accelerator Monitor Cable

The monitor cable included with the Sun XVR-600 graphics accelerator installation kit has been changed from a DVI-I to 13W3 monitor cable to a DVI-I to VGA monitor cable.

For additional information about the Sun XVR-600 graphics accelerator go to:
http://www.sun.com/desktop/products/graphics/xvr600/

Software and Firmware Information

Note – Before installing any software onto the Sun Blade 2500 hard drive(s), read the documentation for that software.

Verifying Workstation Configuration With the Sun Install Check Tool

Note – Install Check is an optional tool for verifying workstation configuration. Sun Microsystems encourages its use for customer satisfaction.

The Install Check tool verifies and provides information about your Sun Blade 2500 workstation's configuration. To run Install Check, you need to download it from the web.

Downloading Install Check

1. **As superuser of the Sun Blade 2500 system, open a web browser and go to the Install Check URL:**

   http://wwws.sun.com/software/installcheck/index.html

   Note – Documentation on the use of Install Check is available at this URL.

2. **Click Get the Software.**

3. **Click Download Sun Install Check Tool.**

4. **Log in with your My Sun, Sun Store, or SunSolve[SM] username and password.**

5. **Read and agree to the licensing terms.**

6. **Click the Sun Install Check Application, English link and save the** `sunic.zip` **file to a download directory.**

7. **Go to the download directory and unzip the** `sunic.zip` **file.**

```
# unzip sunic.zip
```

A `sunic` subdirectory is created, containing a `README` file.

Read the `README` **file for further instructions to install and run the Sun Install Check tool.**

Software Optimization

Software for the Sun Blade 2500 workstation is continuously improved throughout the life cycle of the product. TABLE 3 lists the latest patches as of December 2004.

TABLE 3 Latest Patches as of December 2004

Solaris Operating Environment	Patch	Synopsis
Solaris™ 8 2/04	108528-29 (or later)	Kernel update patch
	108576-48 (or later)	SunOS™ 5.8: Sun XVR-500 graphics accelerator patch
	108974-41 (or later)	DADA, UATA, DAD, SD, SCSI patch
	108975-08 (or later)	`rmformat` and `format` patch
	108977-04 (or later)	libsmedia patch
	109793-25 (or later)	`su` patch

TABLE 3   Latest Patches as of December 2004 *(Continued)*

Solaris Operating Environment	Patch	Synopsis
	109873-26 (or later)	`prtdiag` and platform `libprtdiag_psr.so.1` patch
	109883-02 (or later)	`/usr/include/sys/ecppsys.h` patch
	109887-18 (or later)	Smart card and `usr/sbin/ocfserv` patch
	109889-07 (or later)	usr platform links and `libc_psr` patch
	109892-04 (or later)	`/kernel/drv/sparcv9/ecpp` patch
	109896-28 (or later)	SunOS 5.8: USB and audio framework patch
	109920-09 (or later)	`pcic` and `busra` driver patch
	110320-03 (or later)	`/kernel/misc/sparcv9/s1394` patch
	110609-04 (or later)	USB header patch
	110835-07 (or later)	`/platform/sun4u/kernel/misc/sparcv9/gptwo _cpudriver` patch
	111325-02 (or later)	`/usr/lib/saf/ttymon` patch
	111804-03 (or later)	`update_drv,rem_drv` patch
	111808-02 (or later)	`/usr/lib/adb/devinfo` patch
	113680-04	BGE driver patch
	113681-03	`mc-us3i` patch
	113886-26 (or later)	OpenGL® 1.3: OpenGL patch for Solaris (32-bit)
	113887-26 (or later)	OpenGL 1.3: OpenGL patch for Solaris (64-bit)
	114537-26 (or later)	SunOS 5.8: Sun XVR-100 graphics accelerator patch

TABLE 3 Latest Patches as of December 2004 *(Continued)*

Solaris Operating Environment	Patch	Synopsis
	114554-17 (or later)	SunOS 5.8: Sun XVR-1200 graphics accelerator patch
	114152-01 (or later)	SunOS 5.8: Japanese SunOS 4.x Binary Compatibility (BCP) patch (Only for Japanese locale)
	114583-01 (or later)	I^{2}C driver patch
	116042-12 (or later)	SunVTS 5.1: Patch Set 5
	117000-05 (or later)	Kernel update patch
	117005-01 (or later)	PICL-D patch
	117350-13 (or later)	Kernel update patch
	117365-01 (or later)	OpenBoot PROM 4.9.5: Firmware upgrade
Solaris 9 4/04		
	112233-12 (or later)	Kernal update patch
	112540-22 (or later)	SunOS 5.9: Sun XVR-500 graphics accelerator patch
	112926-05 (or later)	Smart card patch
	112954-09 (or later)	`uata` driver patch
	113077-14 (or later)	`su` patch
	113277-26 (or later)	`sd` and `ssd` patch
	113447-23 (or later)	`libprtdiag_psr` patch
	113490-04 (or later)	Audio device driver patch

TABLE 3 Latest Patches as of December 2004 *(Continued)*

Solaris Operating Environment	Patch	Synopsis
	113886-20 (or later)	OpenGL 1.3: OpenGL Patch for Solaris (32-bit)
	113887-20 (or later)	OpenGL 1.3: OpenGL Patch for Solaris (64-bit)
	114128-02 (or later)	sd_lun patch
	114538-26 (or later)	SunOS 5.9: Sun XVR-100 graphics accelerator patch
	114555-17 (or later)	SunOS 5.9: Sun XVR-1200 graphics accelerator patch
	114153-01 (or later)	SunOS 5.9: Japanese SunOS 4.x Binary Compatibility (BCP) patch (Only for Japanese locale)
	114584-01 (or later)	I^{2}C driver patch
	115553-13 (or later)	USB and audio framework patch
	116042-12 (or later)	SunVTS^{TM} 5.1: Patch Set 5
	116472-01 (or later)	`reformat` patch
	116474-02 (or later)	`libsmedia` patch
	116476-01 (or later)	`pcic` driver patch
	116478-01 (or later)	usr platform links patch
	116480-01 (or later)	IEEE 1394 patch
	116482-01 (or later)	`modload` utils patch
	116665-01 (or later)	BGE driver patch
	117171-12 (or later)	Kernel update

TABLE 3   Latest Patches as of December 2004 *(Continued)*

Solaris Operating Environment	Patch	Synopsis
	117365-01 (or later)	OpenBoot PROM 4.9.5: Firmware upgrade

Note – Additional information about the latest patches may be found at: http://sunsolve.sun.com

Note – Patch 117365 can be installed to upgrade the OpenBoot PROM firmware to a version later than 4.9.4.

Updating the OpenBoot PROM Firmware

1. **As superuser of the system that requires the firmware update, go to the SunSolve web site:**

   http://www.sunsolve.sun.com

2. **Click the Patchfinder link.**

   The SunSolve Patch Access page appears.

3. **Type 117365 into the Patch ID field and click Find Patch.**

   The patch README file is displayed.

4. **Read the README file for instructions on downloading and installing the firmware.**

Checking Your Installed Patches

● **Type this command to see which patches are installed on your system:**

```
% patchadd -p
```

The installed patches are listed in ascending order.

Installing the Patches Using the `patchadd` Command

1. **Go to the Sun Solve web site:**

   http://sunsolve.sun.com

2. **Click the Patchfinder link.**

3. **Enter a patch ID from** TABLE 3, **"Latest Patches as of December 2004" on page 5 into the field and click Find Patch.**

4. **Download the patch to a temporary location.**

5. **Repeat Step 3 and Step 4 for each patch required.**

6. **Become superuser of the system to receive the patch.**

7. **Transfer and unzip each patch.**

   For example:

   ```
   # unzip xxxxxx-x
   ```

   Note – Where *xxxxxx-x* represents a patch ID number.

8. **Install each patch.**

   For example:

   ```
   # patchadd xxxxxx-x
   ```

9. **Repeat Step 7 and Step 8 for each patch required.**

10. **If requested by a patch, reboot the system after installing all of the patches.**

    For example:

    ```
    # reboot -- -r
    ```

11. **Verify the system configuration by running the Sun Install Check tool.**

    See "Verifying Workstation Configuration With the Sun Install Check Tool" on page 4.

Documentation Information

This section describes changes to the Sun Blade 2500 documentation.

Getting Started With Additional Preinstalled Software

Note the following correction to the *Sun Blade 2500 Getting Started Guide,* 816-1005-11.

Power Management Features

The Sun Microsystems web site does not list the workstation configurations that are Energy Star compliant. From the following Energy Star web site you can download a PDF file of the configurations that are Energy Star compliant.
http://www.energystar.gov/index.cfm?=computers.pr_computers

From the Energy Star web site select the following links to download the PDF file: *Products>Office Equipment>Computers>For Consumers: Product List*

Service, Diagnostics, and Troubleshooting Manual

Note the following corrections to the *Sun Blade 2500 Service, Diagnostics, and Troubleshooting Manual,* 816-0996-11.

Service, Diagnostics, and Troubleshooting Manual Revision

The *Sun Blade 2500 Service, Diagnostics, and Troubleshooting Manual* has been revised to include all of the information contained within the original service manual and the following *Sun Blade 2500 Product Notes*:
- 816-0996-10
- 816-0996-11
- 816-0996-12
- 816-0996-13

Refer to the *Sun Blade 2500 Service, Diagnostics, and Troubleshooting Manual,* 816-0996-11, and this product note for the latest service information.

ShowMe How Multimedia Movie Links Might Not Work

The *Sun Blade 2500 Service, Diagnostics, and Troubleshooting Manual* on the Sun Blade 2500 Hardware Documentation CD, part number 704-7736, contains links to multimedia service procedures. Sometimes, if you read the manual with an Adobe® Acrobat Reader that has been launched from a web browser, the links may not work correctly, while the rest of the manual content displays properly. If this happens, perform one of the following steps to see the movies:

■ Open Adobe Acrobat Reader, and then open the *Sun Blade 2500 Service, Diagnostics, and Troubleshooting Manual* directly from Acrobat Reader to access the multimedia links within the manual.

The *Sun Blade 2500 Service, Diagnostics, and Troubleshooting Manual* PDF files are located on the hardware documentation CD at:

`/cdrom/cdrom0/Docs/ServiceManual/` (for Solaris users)

or

`/sblade2500doc/Docs/ServiceManual/` (for users on other platforms)

■ Click the ShowMe^{TM} How tab on the hardware documentation CD site pages, and select a link to view a movie.