Sun Blade™ 1000 and Sun Blade 2000 Product Notes

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Contents

Sun Blade 1000 and Sun Blade 2000 Product Notes

The *Sun Blade 1000 and Sun Blade 2000 Product Notes* contain late-breaking information about changes to software, hardware, and documentation that became known after the product was released.

Software Changes

New Preinstalled Software

New software and patches are available with newly shipping Sun Blade™ 2000 systems:

- Sun™ Grid Engine 5.3
- StarOffice™ 6
- XIR
- Patches

Sun Grid Engine 5.3

Analogous to an electrical power grid, Sun Grid Engine is distributed resource management software that mediates the processing demands of users and the computational resources available over a wide area network of interconnected clients and servers. Through Sun Grid Engine software, idle computing resources joined to the grid in one location become available to distant users in another, thereby increasing the productivity of both the users and the resources.

Further information regarding Sun Grid Engine software, administration and user guides, reference manuals, and release notes are available at:

`http://www.sun.com/documentation`

Click the following links: Additional Hardware Documentation → Software → Sun Grid Engine.

StarOffice 6.0

The Sun Blade 2000 workstation now ships with StarOffice 6.0 (StarSuite for Asian locales) and the following information updates "StarOffice" in the *Sun Blade 1000 and Sun Blade 2000 Getting Started Guide*, 816-3216.

Key features include:

- Robust and scalable integrated office productivity tools that include word processing, spreadsheets, graphics, web publishing, and database applications.
- A cross-platform, open-world approach—StarOffice runs natively on Solaris software (SPARC™ and Intel processors), Microsoft Windows NT, Windows 98, Windows ME, Windows 2000, and Linux.
- Interoperability with Microsoft Office files, allowing seamless and transparent migration and exchange of word processing, spreadsheet, and presentation files.
- A fully integrated work environment that utilizes a single workspace, enabling easy access, management, editing, and sharing of information.
- Built-in web publishing that enables easy HTML web page creation, design, and publishing.

Product components:

- StarOffice Writer—a universal word processing application for creating business letters, extensive text documents, professional layouts, and HTML creation
- StarOffice Calc—a sophisticated application for performing advanced spreadsheet functions, such as analyzing figures, creating lists, and viewing data
- StarOffice Impress—a tool for creating effective, eye-catching presentations
- StarOffice Draw—a vector-oriented drawing module for creating 3D illustrations
- StarOffice Base—a powerful data management tool that enables data to be moved between documents

To start the preinstalled StarOffice software, click the StarOffice icon on the CDE desktop task bar.

Should the preinstalled StarOffice software become corrupted or if it is deleted, you can download a replacement software package called the OpenOffice Community Edition free at:

http://www.openoffice.org

The full-featured version of StarOffice 6.0, known as StarOffice Enterprise Edition, is available for purchase from:

http://wwws.sun.com/software/star/staroffice/6.0

This software is also available from StarOffice Business Development or your Sun Microsystems sales representative.

Software-Emulated XIR

New functionality has been added to the Sun Blade 2000 workstation in the form of a software-emulated External Initiated Reset (XIR).

By default, the XIR feature is activated by pressing the power button three times within 1.5 seconds. When this is done, the Sun Blade 2000 system will drop to the ok prompt. This allows you to begin troubleshooting procedures immediately upon first failure, improving time to resolution.

Note – XIR causes a hard break, similar to the Stop-A key command, and an immediate drop to the ok prompt. The file system is not synchronized and services are not systematically shutdown. Therefore, the XIR should only be used when there is no alternative way to drop to the ok prompt. For example, when the system has "hung".

To make the software-emulated XIR possible, the todds1287 driver has been modified to generate a level 15 interrupt whenever the power button is pressed. Additionally, the driver makes a time interpretation of button presses and executes the XIR according to the properties set in the /etc/system file.

TABLE 1 todds1287 Properties in the /etc/system File

Property	Purpose
todds1287:power_button_abort_enable	Toggles the software emulated XIR. Default is 1 (Enabled).
todds1287:power_button_abort_presses	Number of power button presses required to initiate the XIR. Default is 3. Setting to 1 overrides the standard power down feature.
todds1287:power_button_abort_interval	Time interval in nanoseconds allotted for the number of presses. Default is 1,500,000,000 nanoseconds.

Patches

The following patches are now preinstalled on the Sun Blade 2000 system.

TABLE 2 Preinstalled Patches

Patch Description	Patch Number
Kernel update	108528-15
Sun XVR-500 graphics	108576-30
`patchadd` and `patchrm` (required for `108528-15`)	108987-09
Eri header files (required for `110723-05`)	109882-06
`/usr/sbin/ocfserv` and smart card core updates	109887-13
Internal card reader updates	110457-05
Eri driver	110723-05
`/usr/bin/nawk` (required for `108528-15`)	111111-03
`/usr/bin/mail`	111874-05
Sun GigaSwift Ethernet	111883-07
`/usr/bin/fgrep` (required for `108987-09`)	112396-02

Root Partition Size

The following information updates “Setting Up the Preinstalled Solaris Operating Environment Software” in the *Sun Blade 1000 and Sun Blade 2000 Getting Started Guide*, 816-3216.

The root partition on newly shipping Sun Blade 2000 workstations is now 10,000 MBytes (10 GBytes) in size.

Smart Card Reader Availability

The smart card reader in the Sun Blade 1000 and Sun Blade 2000 systems is functional once newer Solaris operating environment software and software patches are installed. The number of software patches required differ according to the

system's Solaris release date:

TABLE 3 Required Patches According to Solaris Release Date

Patch Description	Solaris 8 7/01	Solaris 8 10/01	Solaris 8 2/02
Smart card administration GUI	108909-12	108909-12	
CDE `dtsession` updates	109354-14	109354-14	
Opencard properties file	109695-03		
Smart card core updates	109887-13	109887-13	109887-13
Internal card reader updates	110457-05	110457-05	110457-05

Note – The smart card reader does not function with any releases of the Solaris operating environment prior to the Solaris 8 7/01 software.

▼ To Install the Patches

1. **Check your Solaris 8 release date:**

```
% cat /etc/release |grep So
Solaris 8 2/02 s28s_u7wos_08a SPARC
```

   In this example, the release date is 2/02.

2. **Check your installed patches:**

```
% showrev -p|nawk '{print $2}'|sort
```

   This command lists all installed patches in ascending numeric order.

3. **If any patches are outdated or missing, go to the SunSolve℠ web site at:**
   `http://www.sunsolve.sun.com`

4. **Click the Patches link in the left column.**

5. **Search for and download the latest versions of the patches.**
   Newer patches are signified by a higher dash (–) number.

6. **As superuser, install the patches with the** `patchadd` **command.**

   For example:

```
# patchadd -M /download-directory 109887-13 110457-05
```

   Where *download-directory* is the directory to where the patches were downloaded.

Further Assistance

If you are unable to use the smart card reader after installing the required software, contact your Sun service representative.

Workstation Security

If it becomes necessary to reinstall the Solaris 8 02/02 software onto your workstation, you must also install the latest versions of software patches `109815` and `111874`. These software patches provide additional security for the workstation and are available from the SunSolve website:

`http://www.sunsolve.sun.com`

Note – Always check the Sun web site for the latest software updates.

Hardware Changes

Sun Blade 1000 or Sun Blade 2000 Workstation?

Some Sun Blade 2000 OpenBoot™ PROM banners and certain Solaris commands identify a Sun Blade 2000 system as a Sun Blade 1000 system. The following table lists visual distinguishing characteristics of the Sun Blade 1000 and Sun Blade 2000 workstations.

TABLE 4 Visual Distinguishing Characteristics of the Sun Blade 1000 and Sun Blade 2000

Sun Blade 1000	Sun Blade 2000
Case is light grey.	Case is dark grey.
Front bezel is matte purple.	Front bezel is iridescent purple.
Sun Logo lights up on front bezel.	Sun Logo on front bezel is in a lighted badge.

Product Overview

The Sun Blade 1000 and Sun Blade 2000 workstations are configured with CPU modules that are available in several speeds and have either an UltraSPARC® III CPU or an UltraSPARC III Cu CPU installed.

Identifying a CPU Module

The CPU module's speed and type are identified by its part number, located on the narrow yellow label affixed along the module's edge. The following table provides a list of CPU module part numbers and the corresponding speed and type of CPU.

TABLE 5 CPU Module Part Number, Speed, and Type

Part Number Prefix	CPU Module Speed and Type
5014999*xxxxxx*	600MHz UltraSPARC III
5015675*xxxxxx*	750MHz UltraSPARC III
5015770*xxxxxx*	900MHz UltraSPARC III

TABLE 5 CPU Module Part Number, Speed, and Type *(Continued)*

Part Number Prefix	CPU Module Speed and Type
5015895*xxxxxx*	750MHz UltraSPARC III
5015969*xxxxxx*	750MHz UltraSPARC III
5015988*xxxxxx*	750MHz UltraSPARC III
5016002*xxxxxx*	900MHz UltraSPARC III Cu
5016169*xxxxxx*	750MHz UltraSPARC III
5016197*xxxxxx*	900MHz UltraSPARC III
5016286*xxxxxx*	900MHz UltraSPARC III
5016395*xxxxxx*	1015MHz UltraSPARC III Cu
5016254*xxxxxx*	1050MHz UltraSPARC III Cu
5016396*xxxxxx*	1050MHz UltraSPARC III Cu

UltraSPARC III Cu CPU modules and their version are often identified by the text located under the UltraSPARC logo on the purple cover. See FIGURE 1.

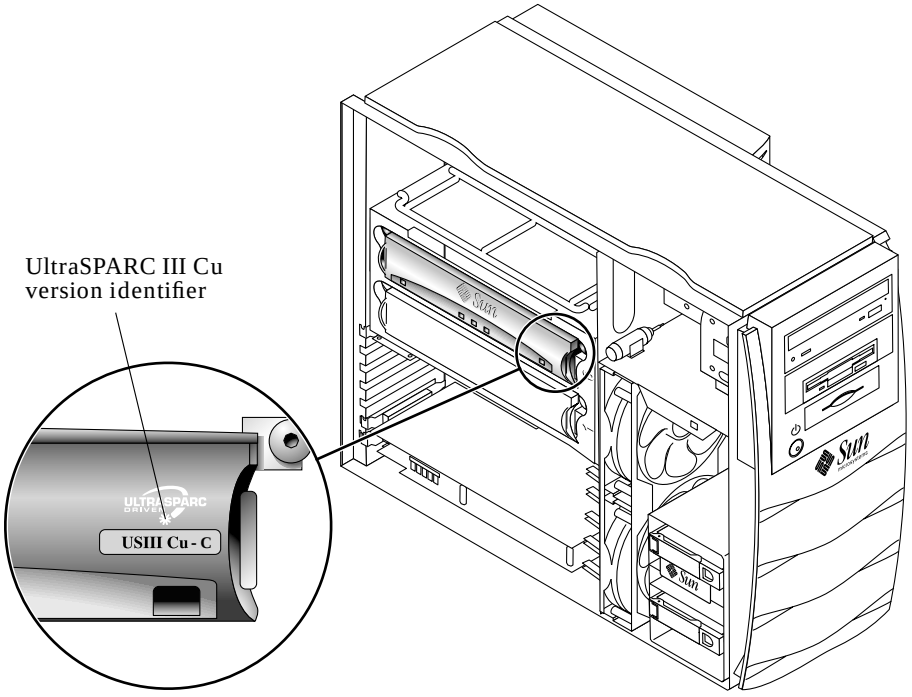

FIGURE 1 UltraSPARC III Cu Version Identifier

In this example, the module is an UltraSPARC III Cu, version C.

Conditions for CPU Module Installation

The Sun Blade 1000 and Sun Blade 2000 workstations can accommodate either one or two CPU modules. The following rules and minimal software are requirements for proper configuration.

Rules

The following are rules for CPU module configurations. Examples are provided in parentheses.

- In single module configurations, the CPU module must be installed into slot 0. Slot 0 consists of connectors J0501 and J0601.
- An UltraSPARC III CPU module cannot be paired with an UltraSPARC III Cu CPU module, even if they run at the same speed (900 MHz).
- Dual UltraSPARC III CPU modules can have mixed speeds (600 MHz and 900 MHz).
- Dual UltraSPARC III Cu CPU modules must have the same version (version C and version C).

Minimal Software

The following table describes the minimal Solaris operating environment release, firmware version, and software patches required for the Sun Blade 1000 and Sun Blade 2000 systems.

TABLE 6 Minimal Software Requirements for Sun Blade 1000 and Sun Blade 2000 Systems

	Sun Blade 1000		Sun Blade 2000
CPU Module Type	UltraSPARC III	UltraSPARC III Cu	UltraSPARC III Cu
Solaris Operating Environment Release	Solaris 8 10/00	Solaris 8 10/01	Solaris 8 02/02
OpenBoot Firmware*	v4.2.2	v4.4.4	v4.5.10
Software Patches	111292 109888	111292	111292 109815

TABLE 6 Minimal Software Requirements for Sun Blade 1000 and Sun Blade 2000 Systems *(Continued)*

	Sun Blade 1000		Sun Blade 2000
CPU Module Type	UltraSPARC III	UltraSPARC III Cu	UltraSPARC III Cu
	110460		109888
	108528		111874

* Do not install OpenBoot PROM v4.6.6.

Note – The latest version of patch 111292 provides the latest firmware for either the Sun Blade 1000 or Sun Blade 2000 system.

Software patches are available from the SunSolve website:

http://www.sunsolve.sun.com

Smart Card Reader Characteristics

Sun Blade 2000 systems manufactured after May 2002 have different smart card reader characteristics:

- Bi-color LED indicator
- Double-sided insertion

TABLE 7 Smart Card Reader LED Indicator Status

LED State	Condition
Green solid	Smart card is properly inserted.
Green flashing	Data read / write.
Amber solid	Smart card is not inserted correctly or no communication with smart card.

The smart card can be inserted into the reader face up (gold pads up) or face down.

Documentation Changes

CPU Module Positions in the Workstation

Refer to “CPU Module Positions in the Workstation” in the *Sun Blade 1000 and Sun Blade 2000 Service Getting Started Guide*, 816-3216.

The following publications describe use of torque tool A or torque tool B for the type of CPU module that you are installing:

- To install an UltraSPARC III CPU module, see the *Sun Blade 1000 UltraSPARC III CPU Module Installation Instructions*, 816-0416.
- To install an UltraSPARC III Cu CPU module, see the *Sun Blade 1000 and Sun Blade 2000 UltraSPARC III Cu Module Installation Guide*, 816-3221.

Note – The torque tool information in the two documents referenced above is true regardless of the speed of your UltraSPARC III or UltraSPARC III Cu CPU module.
