Sun Blade™ 100 Product Notes

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Sun Blade 100 Product Notes

The following product notes contain late-breaking information about changes to the Sun Blade™ 100 hardware, software, and product documentation. These product notes are a summary of the changes that became known after the product documentation set was published.

Reinstalling the Solaris Operating Environment and Patches

The Sun Blade 100 system is configured with the Solaris™ operating environment and patches preinstalled.

You must follow these procedures if you decide to reinstall the Solaris 8 10/00 or Solaris 8 1/01 operating environments for any reason (for example, to repartition your hard drives, or to recover from a failure).

Ensuring That You Have the Necessary CDs

1. **Determine which operating system you will reinstall on your Sun Blade 100 system, either:**
   - Solaris 8 10/00 software
   - Solaris 8 1/01 software
2. **Obtain the media kit for one of the above Solaris releases.**

   The media kit is not provided with the Sun Blade 100 system.

   Once you have the Solaris media kit, you can begin the reinstallation process.

Installing the Sun Blade 100 Patches and the Solaris Operating Environment

You must boot your system from the appropriate installation CD before you reinstall the Solaris 8 10/00 or Solaris 8 1/01 operating environment. The installation CDs contain important patches for Solaris software and the Sun Blade 100 system. Be sure that you also have the appropriate Solaris CDs before you begin.

1. **Boot your system from the correct installation CD for the Solaris release that you plan to install.**

   Follow the instructions in the *Installing Solaris 8 10/00 or Solaris 8 1/01 Software* guide, 806-7793, that ships with the installation CDs.

   Use one of the following installation CDs:

   - Operating Environment Installation CD 10/00, for Sun Blade 100 Systems, 704-7610—used to initiate the installation of Solaris 8 10/00.
   - Operating Environment Installation CD 1/01, for Sun Blade 100 Systems, 704-7617—used to initiate the installation of Solaris 8 1/01.

   Both of the above installation CDs, with the installation guide, are shipped with each Sun Blade 100 system.

2. **Install the Solaris release that you have chosen.**

   Continue to follow the instructions in the *Installing Solaris 8 10/00 or Solaris 8 1/01 Software* guide that ships with the installation CDs.

Note – The Solaris 8 1/01 release and compatible releases do not require you to boot an operating environment CD first. The patches contained on the installation CDs may be included in the newer Solaris release.

TABLE 1 describes the patches contained on the operating environment CDs.

TABLE 1 Required Sun Blade 100 Patches for Solaris 8 10/00 and Solaris 8 1/01 Software

Patch Number	Patch Title
108528-06 or later	Kernel Update 6
109793-05 or later	SU Serial Port Driver Patch
109920-03 or later	PCMCIA Driver Patch
110221-01 or later	Dcam 1394 Patch
109874-05 or later	Audio Driver Patch
109882-03 or later	ERI Header Files Patch

TABLE 1 Required Sun Blade 100 Patches for Solaris 8 10/00 and Solaris 8 1/01 Software *(Continued)*

Patch Number	Patch Title
110723-01 or later	ERI Driver Patch
108974-09 or later	UATA and SD Patch
108606-08 or later	M64 Graphics Patch
108576-10 or later	Expert 3D IFB Graphics Patch

You can download and find information about the latest software patches for both the Sun Blade 100 system and the Solaris operating environment at:

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

This information supplements the “Restoring the Preinstalled Software” section in the *Sun Blade 100 Getting Started Guide*, 806-3415.

Sun 1394 Camera Support

The Sun Blade 100 system supports the Sun™ Visual Collaboration Kit, the Sun 1394 Camera, and any Solaris ready 1394-compliant device.

Power Management Features

The following two sections describe how to disable Energy Star® power management.

This information supplements the “Activating the System From Low-Power Mode” section in the *Sun Blade 100 Getting Started Guide*, 806-3415.

Disabling Hard Drive Power Management

When the system is in low-power mode, the hard drive eventually stops rotating to conserve power. Later, when you perform a task that accesses the hard drive, the hard drive spins up again. You might have to wait a few seconds for the hard drive to spin up to full speed.

If you find that the delay is inconvenient, you can turn off Energy Star hard drive power management to prevent the hard drive from entering the low-power mode.

1. **As superuser, type the following line in your** `/etc/power.conf` **file:**

   ```
   device-thresholds  /dev/dsk/c0t0d0s0  always-on
   ```

2. **Run the command:**

   ```
   /usr/sbin/pmconfig
   ```

   These commands tell the power management framework to keep the hard drive powered up all the time, regardless of drive usage. This hard drive power management is intended to be adjustable with the Dtpower graphical user interface, but the hard drive management feature is not present in this version of the software.

   You can completely turn off all power-saving features of the workstation using the the following procedures.

Disabling all System Power Management

You can disable the Energy Star power management feature by using the Dtpower (Dt = “desktop”) graphical user interface.

1. **At the system prompt type:**

   ```
   /usr/openwin/bin/dtpower
   ```

2. **Select “minimal” for the “Current power saving scheme.”**

Note – Selecting minimal power manages the monitor and nothing else in the system.

Setting the Default Console Display

If a PCI graphics card is installed, the default monitor console switches to the installed PCI card. You can set the onboard M64 graphics device as the default monitor console.

1. **At the** ok **prompt, type the following to display a list of the installed graphics devices**:

```
ok show-displays
a) /pci@1f,0/SUNW,m64B@13
b) /pci@1f,0/pci@5/SUNW,Expert3D-Lite@1
q) NO SELECTION
Enter Selection, q to quit:
```

2. **Type a letter at the prompt to select the graphics card you want to be the default console display.**

   In this example, type a to select the onboard M64 graphics device.

```
Enter Selection, q to quit: a
/pci@1f,0/SUNW,m64B@13 has been selected.
Type ^Y ( Control-Y ) to insert it in the command line.
e.g. ok nvalias mydev ^Y
```

3. **Set the selected device as the console device by typing**:

```
ok setenv output-device <Control-Y>
```

4. **Power off the system.**

   See “Powering Off the System” in the *Sun Blade 100 Getting Started Guide*.

5. **Connect your monitor cable to the onboard VGA connector on your system back panel.**

   See “Back Panel Overview” in the *Sun Blade 100 Getting Started Guide*.

6. **Power on the system.**

   See “Powering on the System” in the *Sun Blade 100 Getting Started Guide*.

PCI Card Guide

A second PCI card guide has been added to the Sun Blade 100 system. This new PCI card guide helps hold the PCI cards in place.

This information updates the *Sun Blade 100 Getting Started Guide* and the *Sun Blade 100 Service Manual*.

Installing a PCI or Graphics Card

1. **Power off the system, remove the cover, and attach an antistatic wrist strap as described in "Preparing for Installation" in the** *Sun Blade 100 Getting Started Guide.*

2. **Use a No. 2 Phillips screwdriver to remove the screw that secures the PCI card bracket retainer (see** FIGURE 1**).**

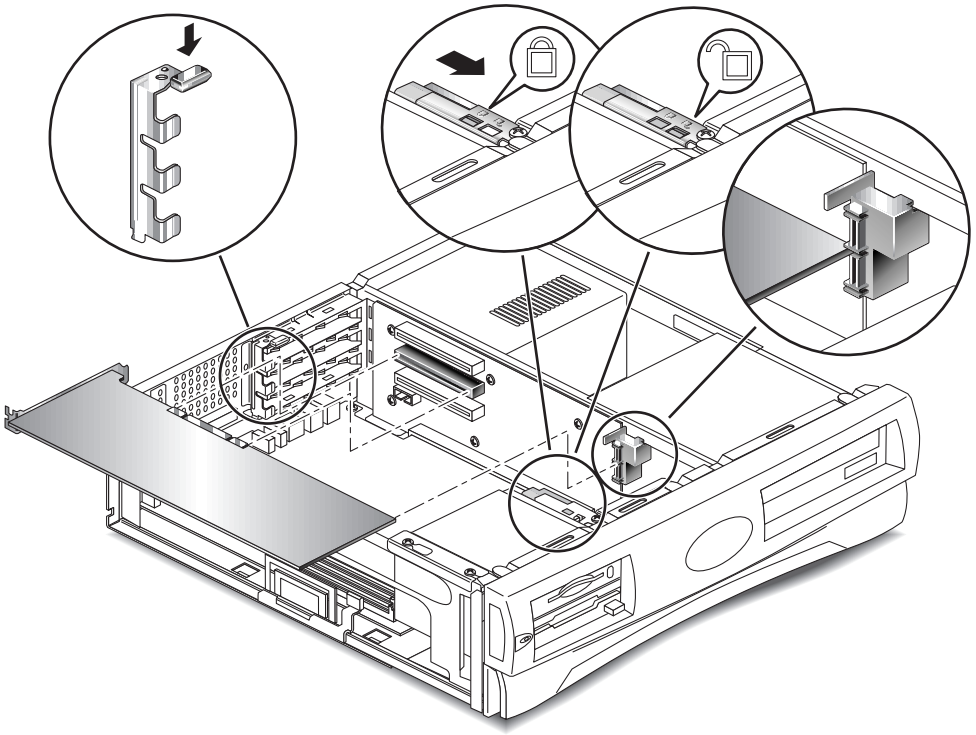

FIGURE 1 Installing PCI or Graphics Cards

3. **Lift the PCI card bracket retainer from the chassis and set it aside.**

4. **If necessary, remove the back plate in the PCI slot that you intend to use.**

5. **Guide the card's bracket tab into the chassis back panel slot.**

   Long PCI cards should be inserted into the slots on the PCI card guide that is mounted on the riser board. See FIGURE 1.

6. **At the two corners of the card, push the card straight into the riser board connector until the card is fully seated.**

   For long PCI cards, be sure that the card is properly inserted into the PCI card guide on the riser board.

7. **Replace the PCI card bracket retainer.**

   Ensure that the bottom tab seats in the bracket receiver slot.
   Ensure that the bracket closes over the bracket tabs of all installed PCI cards.

8. **Replace the screw that secures the PCI card bracket retainer to the chassis.**

9. **For a long PCI card, slide the adjustable card guide over the free end of the PCI card.**

   The adjustable card guide is mounted on the side of the diskette drive bracket (see FIGURE 1).

10. **Continue with "Finishing Component Installation" in the** *Sun Blade 100 Getting Started Guide***.**

Sun Blade 100 Specifications

Appendix A of the *Sun Blade 100 Service Manual* incorrectly lists some of the system specifications.

The correct operating temperature is shown in TABLE 2:

TABLE 2 Sun Blade™ 100 System Environmental Requirements

Environmental	Operating	Nonoperating
Temperature	41 to 95 degrees F (5 to 35 degrees C)	-4 to 140 degrees F (-20 to 60 degrees C)
Relative Humidity	40% to 80% noncondensing at 95 degrees F (35 degrees C)	30% to 90% noncondensing at 140 degrees F (60 degrees C)
Altitude	10,000 ft (3 km)	40,000 ft (12 km)

TABLE 3 lists the Sun Blade™ 100 system physical specifications.

TABLE 3 Sun Blade™ 100 System Physical Specifications

Specification	U.S.A.	Metric
Height	4.6 in.	11.8 cm
Width	18.0 in.	45.70 cm
Depth	17.6 in.	44.6 cm
Weight	34.2 lb	15.5 kg