Sun Blade™ 1500 Workstation Product Notes

(Silver)

Sun Microsystems, Inc.
www.sun.com

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Sun Blade 1500 Product Notes

The *Sun Blade 1500 Workstation Product Notes (Silver)*, 817-5131-14 contains late-breaking information about changes to the product and to the documentation supporting the product that became known after the documentation set was published.

Note – This publication describes the changes made to hardware, software, firmware, and documentation for Sun Blade™ 1500 workstations with silver bezels. If you have a Sun Blade 1500 workstation with a red bezel, refer to the *Sun Blade 1500 Product Notes (Red)*, 816-7569.

Note – Both red and silver versions of the Sun Blade 1500 documentation are available at:
`http://www.sun.com/products-n-solutions/hardware/docs/`

This product note includes:

- "Hardware Information" on page 2
- "Software and Firmware Information" on page 5
- "Documentation Information" on page 20

Hardware Information

Note – Before removing or installing any hardware, software, or firmware components, read all of the *Sun Blade 1500 Workstation Product Notes (Silver)* and the documentation for the component that you are removing or installing.

Note – Before removing or installing any hardware components, read all of the contents of the *Sun Blade 1500 Workstation Safety and Compliance Guide*, 817-5130.

Hardware, Software, and Firmware Differences Between the Sun Blade 1500 (Red) and Sun Blade 1500 (Silver) Workstations

TABLE 1 summarizes the major hardware, software, and firmware differences between Sun Blade 1500 (Red) and Sun Blade 1500 (Silver) workstations.

TABLE 1 Hardware, Software, and Firmware Differences–Between Sun Blade 1500 (Red) and Sun Blade 1500 (Silver) Workstations

Hardware	Sun Blade 1500 (Red)	Sun Blade 1500 (Silver)
CPU speed	1.062 GHz	1.503 GHz
Memory options	256 MB/512 MB/1 GB	512 MB/1 GB/2 GB
Memory type	266 MHz DDR1 SDRAM	266 or 333 MHz DDR-1 SDRAM
Memory speed	236 MHz	250 MHz
Memory clock speed	118 MHz	125 MHz
Hard drive	80 GB IDE	120 GB IDE
Optical media drive	DVD-ROM	DVD-ROM/CD-RW
Power supply unit (PSU)	360 Watts	420 Watts

TABLE 1 Hardware, Software, and Firmware Differences–Between Sun Blade 1500 (Red) and Sun Blade 1500 (Silver) Workstations *(Continued)*

Hardware	Sun Blade 1500 (Red)	Sun Blade 1500 (Silver)
Solaris™	8 HW 5/03 9 4/04	8 2/04 9 9/04 or 10 3/05
SunVTS™	5.1 PS2	5.1 PS5+ or subsequent compatible version
OpenBoot™ PROM	4.9.4	4.16.3

Resetting the Power Supply

In normal operation, when power to the power supply is briefly interrupted and then restored, the workstation automatically powers on without pressing the Power button.

If your workstation fails to automatically power on after a power interruption:

1. **Disconnect the workstation power cord from the AC outlet for approximately one minute.**
2. **Reconnect the power cord.**

   In a few seconds your workstation automatically powers on.

Smart Card Reader

Customers using GNOME might find that their smart card reader does not operate after the smart card has been removed. To prevent this problem from occurring, log out before you remove the smart card from the reader.

Mixing DIMM Speeds

The Sun Blade 1500 workstation supports DDR-1 SDRAM DIMMs. The speed (frequency) of these DIMMs can be either 266 MHz or 333 MHz. OpenBoot PROM version 4.16.3 supports mixing of identical 266 MHz and 333 MHz speed DIMMs in the same bank.

Memory Interleaving and Mixing DIMM Speeds

The UltraSPARC® IIIi processor supports the bank, rank, DIMM, and XOR interleaving of identical DIMMs of the same speed in the same bank.

Note – Additional information about memory interleaving is available in Appendix C of the *Sun Blade 1500 Service, Diagnostics, and Troubleshooting Manual*, 816-7564.

Conditions for Installing Optional PCI Cards

Table 16-1 in Chapter 16, of the *Sun Blade 1500 Service, Diagnostics and Troubleshooting Manual*, (817-5127-11) incorrectly states the installation conditions for single- and dual-channel SCSI host adapters. TABLE 2 correctly states the correct conditions for installing single- and dual-channel SCSI host adapters.

TABLE 2 Conditions for Installing Optional PCI Cards

Card Type	Product	Conditions for Installation
SCSI host adapters	Dual-Channel differential Ultra/Wide SCSI PCI adapter Dual-Channel single ended Ultra/Wide SCSI PCI adapter	These products have Fcode incorporated into their firmware. During the boot process, the system searches for this Fcode. If this Fcode is found on the SCSI PCI adapter, the system will execute the code and load the hard or removable media drivers.
	Single-ended Ultra/Wide SCSI PCI adapter	These devices are supported and reported by the `probe-scsi` command.

Note – Sun Blade 1500 workstations use IDE drivers and do not have internal SCSI PCI adapters built in. However, an optional external dual-channel SCSI host adapter might be installed.

DVD-ROM and CD-RW

Some workstations might not successfully copy information from the original master to a new optical disk. This usually occurs when the drive powers down with its optical drive tray open. If this occurs:

1. **Reinsert the master disc into the tray.**
2. **Press the Open/Close button to close the drive.**

   The copy process restarts.

OpenBoot PROM Memory Resource Leak

Your workstation might hang if interrupt commands such as Stop-A, Stop-N, or `boot -h` are repeatedly used. If your system hangs, power cycle your workstation.

Software and Firmware Information

Note – Before installing any software onto the Sun Blade 1500 hard drives, read the documentation for that software.

Booting From a DHCP Server

Note – To boot from a DHCP server you need to alter the instructions found in the *System Administration Guide: IP Services*, 806-4075. Do not use the `uname -i` command to determine the vendor client class for the Sun Blade 1500 (Silver) workstation.

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1. **Configure your DHCP boot server to support the following vendor client class:** `SUNW.Sun-Blade-1500-S`

   The period (`.`) is intentional.

2. **To boot your Sun Blade 1500 (Silver) workstation from a DHCP boot server, type:**

```
ok boot net:dhcp
```

Software Optimization

Software for the Sun Blade 1500 workstation is continuously improved throughout the life cycle of the product. TABLE 3 lists the latest patches as of October 2006 for the Sun Blade 1500 workstation (Silver).

Tip – When optimizing system software, always install the most current patch version.

TABLE 3 Latest Sun Patches as of October 2006–Sun Blade 1500 (Silver)

Solaris Operating Environment	Patch Version (Or Subsequent Compatible Version)	Synopsis
Solaris 8	108528-29	Kernel update patch
	108576-52	SunOS™ 5.8: Sun XVR-500 graphics accelerator patch
	108974-50	DADA, UATA, DAD, SD, SCSI patch
	108975-09	`rmformat` and `format` patch
	108977-04	`libsmedia` patch
	109793-28	`su` patch
	109883-02	`/usr/include/sys/ecppsys.h` patch
	109887-18	Smart card and `usr/sbin/ocfserv` patch
	109889-07	`usr` platform links and `libc_psr` patch
	109892-04	`/kernel/drv/sparcv9/ecpp` patch
	109896-30	SunOS 5.8: USB and audio framework patch
	109920-09	`pcic` and `busra` driver patch
	110320-03	`/kernel/misc/sparcv9/s1394` patch
	110609-04	USB header patch
	110835-07	`/platform/sun4u/kernel/misc/sparcv9/gptwo_cpu driver` patch

TABLE 3 Latest Sun Patches as of October 2006–Sun Blade 1500 (Silver) *(Continued)*

Solaris Operating Environment	Patch Version (Or Subsequent Compatible Version)	Synopsis
	111325-02	`/usr/lib/saf/ttymon` patch
	111792-16	PICL plug-in patch
	111804-03	`update_drv`,`rem_drv` patch
	111808-02	`/usr/lib/adb/devinfo` patch
	113680-06	BGE driver patch
	113681-03	`mc-us3i` patch
	113886-35	OpenGL® 1.3: OpenGL patch for Solaris (32-bit)
	113887-37	OpenGL 1.3: OpenGL patch for Solaris (64-bit)
	114537-36	SunOS 5.8: Sun XVR-100 graphics accelerator patch
	114554-32	SunOS 5.8: Sun XVR-1200 graphics accelerator patch
	114152-01	SunOS 5.8: Japanese SunOS 4.x Binary Compatibility (BCP) patch (Only for Japanese locale)
	114583-01	I^2C driver patch
	117000-05	Kernel update patch
	117005-01	PICL-D patch
	117350-39	Kernel update patch
	119236-01	Sun Blade 1500 flash PROM update patch
	121422-01	SunVTS 5.1: Patch Set 11
Solaris 9		
	112233-12	Kernel update patch
	112540-26	SunOS 5.9: Sun XVR-500 graphics accelerator patch
	112926-06	Smart card patch
	112954-13	`uata` driver patch
	113077-17	`su` patch
	113277-45	`sd` and `ssd` patch
	113490-04	Audio device driver patch
	113886-35	OpenGL 1.3: OpenGL patch for Solaris (32-bit)
	113887-37	OpenGL 1.3: OpenGL patch for Solaris (64-bit)
	114128-02	`sd_lun` patch

TABLE 3 Latest Sun Patches as of October 2006–Sun Blade 1500 (Silver) *(Continued)*

Solaris Operating Environment	Patch Version (Or Subsequent Compatible Version)	Synopsis
	114538-36	SunOS 5.9: Sun XVR-100 graphics accelerator patch
	114555-31	SunOS 5.9: Sun XVR-1200 graphics accelerator patch
	114153-01	SunOS 5.9: Japanese SunOS 4.x Binary Compatibility (BCP) patch (Only for Japanese locale)
	114584-01	I^2C driver patch
	115553-20	USB and audio framework patch
	116472-02	`rmformat` patch
	116474-03	`libsmedia` patch
	116476-01	`pcic` driver patch
	116478-01	`usr` platform links patch
	116480-01	IEEE 1394 patch
	116482-02	`modload` utils patch
	117171-17	Kernel update
	117155-09	PCIPSY patch
	117636-01	ATA driver patch
	118558-28	SunOS 5.9: kernel patch
	119237-02	Hardware/PROM: Sun Blade 1500 (Silver) OBP 4.17.1
	120241-01	BGE driver patch
	121422-01	SunVTS™ 5.1: Patch Set 11
Solaris 10		
	118822-30	SunOS 5.10: Kernel update patch (KUP)
	118833-18	SunOS 5.10: Kernel update patch (KUP)
	118557-05	SunOS 5.10: su patch
	118707-04	SunOS 5.10: Expert3D IFB graphics patch
	118708-12	Sun OS 5.10: Sun XVR-600/1200 graphics accelerator patch
	118712-09	Sun OS 5.10: Sun XVR-100 graphics accelerator patch
	118945-01	SunOS 5.10 Sun Gigabit Ethernet 3.0 (GEM) driver patch
	119130-22	SunOS: Sun Fibre Channel device drivers

TABLE 3 Latest Sun Patches as of October 2006–Sun Blade 1500 (Silver) *(Continued)*

Solaris Operating Environment	Patch Version (Or Subsequent Compatible Version)	Synopsis
	119236-01	Hardware/PROM: Sun Blade 1500 (Red) OBP 4.17.1
	120101-01	SunOS: libsmedia patch
	120639-01	SunVTS 6.0 PS3 (patch set 3), preferred version

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

Solaris 8 and Solaris 10 Preinstalled Image Available

Sun Blade 1500 (Silver) workstations now come preinstalled with Solaris 8 and Solaris 9, or Solaris 8 and Solaris 10. For information about Solaris 8, 9, or 10 preinstalled software, refer to TABLE 4.

Note – Items in parentheses are included as part of the Solaris software package.

TABLE 4 Solaris 8, 9, and 10 Preinstalled Software

Preinstalled Software	Solaris 8	Solaris 9	Solaris 10
Solaris	8 2/04	9 9/04	10 3/05
Netscape™	(4.76)	(4.78, 7.0)	not included
Mozilla™	1.4	1.4	(1.7)
Solaris documentation	8 2/04	9 9/04	10 3/05
GNOME	not included	2.0.2	(2.6)
StarOffice™ and StarSuite™	7.0 PU3	7.0 PU3	(7.0 PU4)
Evolution	not included	not included	1.4.6

TABLE 4 Solaris 8, 9, and 10 Preinstalled Software *(Continued)*

Preinstalled Software	Solaris 8	Solaris 9	Solaris 10
Java Card™ framework	not included	not included	(MUSCLE 1.2.0)
Java™ 2 SDK	1.4.2	(1.4.2)	1.4.2, 1.5.0
Sun ONE Studio Community Edition	4.0	4.0	4.0
Solstice DiskSuite™	4.2.1	(Solaris Volume Manager)	(Solaris Volume Manager)
Java Communications API	2.0.3	2.0.3	2.0.3
Java Media Framework	2.1.1e	2.1.1e	2.1.1e
SunPCi™ III	3.2.1	3.2.1	3.2.2 + patch 118591
Sun Trunking™	1.3	1.3	1.3
Adobe® Acrobat Reader	5.0.8	5.0.8	(5.0.10)
CD-RW	1.1	(part of Solaris software package)	(part of Solaris software package)
Java 3D™	1.3.1	1.3.1	not included
OpenGL	1.3	1.3	(1.3)
SunATM™	5.0	5.0	5.1
SunForum™	3.2	3.2	not included
SunHSI™ PCI	3.0	3.0	3.0
SunVTS	5.1PS9	5.1PS9	6.0PS1
Sun Hardware Answerbook™	8 2/04	9 9/04	10 3/05
Sun Hardware Platform Guide	8 2/04	9 9/04	not included
XML Libraries	2.4.12	(2.4.12)	(2.6.10)

Tip – For information about patches supporting Solaris 8, 9, and 10 refer to "Software Optimization" on page 6.

SunVTS

Sun Blade 1500 (Silver) workstations come preinstalled with SunVTS 5.1 PS5+ or SunVTS 5.1 PS9. If the hard disk image is erased from your workstation's drive and you want to use SunVTS go to:

http://www.sun.com/oem/vts/

- **Download and install SunVTS 5.1 PS9 or a subsequent compatible version of this software.**

SunVTS and False Test Failures

When running SunVTS on a workstation containing three graphics cards with two or more Sun XVR-100 graphics accelerators installed, set the group concurrency for the graphics test to 1. This prevents false `pfbtest` failures.

Note – If a terminal window is open when SunVTS is running, the following error message is displayed: `X connection broken`.

To set group concurrency, do the following:

1. **From within SunVTS, right-click on the graphics test field.**
2. **Select Scheduled Options.**
3. **Set Group Concurrency to 1.**

Setting Up the Preinstalled Solaris 10 Operating System

Your workstation has a dual-boot image. During system set up you can choose to complete configuration of the preinstalled Solaris 10 Operating System or you can choose to install another operating system such as Solaris 8.

Note – Solaris 10 3/05 is the first version of Solaris 10 supported by the Sun Blade 1500 Workstation Product Notes (Silver) workstation.

Installing the Preinstalled Solaris 10 Operating System

To complete installation of the preinstalled Solaris 10 Operating System do the following:

1. **If necessary, power on the workstation.**

   Allow the workstation to boot until FIGURE 1 is displayed.

```
Sun W1500s Keyboard Present
Copyright 1998-2004 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.16.3, 4096 MB installed, Serial #5xxxxxxx
Ethernet address 0:1:ba:2b:f4:5f, Host ID: 123f45f

Rebooting with command: boot disk:f
Boot device: /pci@1e,600000/ide@d/disk@0,0:f File and args:
SunOS Release 5.10 Version Generic 64-bit
Copyright 1983-2005 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Configuring devices.
Using RPC Bootparams for network configuration information.

Attempting to configure interface bge0...
Skipped interface bge0
No local boot CD, checking net...
Accepting the preinstalled Solaris configuration.
This workstation has both Solaris 8 2/04 and Solaris 10 preinstalled.
Now you must choose which operating system to use. When you do so,
The version of Solaris you did not choose will be removed to make
more disk space available. To choose Solaris 8 2/04 enter '8' below.

To choose Solaris 10 enter '10' or simply <return>.

Would you like to use Solaris 8 2/04 or Solaris 10? (8/[10])
```

FIGURE 1 Choosing the Operating System

2. **Type `10` or press Return.**

3. **Type `y` to confirm your selection of Solaris 10 (FIGURE 2).**

```
Sun W1500s Keyboard Present
Copyright 1998-2004 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.16.3, 4096 MB installed
Serial #5xxxxxxx
Ethernet address 0:1:ba:2b:f4:5f, Host ID: 123f45f
Rebooting with command: boot disk:f
Boot device: /pci@1e,600000/ide@d/disk@0,0:f File and args:
SunOS Release 5.10 Version Generic 64-bit
Copyright 1983-2005 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Configuring devices.
Using RPC Bootparams for network configuration information.
Attempting to configure interface bge0…
Skipped interface bge0
No local boot CD, checking net…
Accepting the preinstalled Solaris configuration.
This workstation has both Solaris 8 2/04 and Solaris 10 preinstalled.
Now you must choose which operating system to use. When you do so,
The version of Solaris you did not choose will be removed to make
more disk space available. To choose Solaris 8 2/04 enter '8' below

To choose Solaris 10 enter '10' or simply <return>.

Would you like to use Solaris 8 2/04 or Solaris 10? (8/[10])

You have chosen Solaris 10.  Is this correct? ([y]/n)
```

FIGURE 2 Confirming Solaris 10 Selection

4. **Review the Binary Code License Agreement for the Sun Blade W1500s/W2500s workstation. Then type `q` to skip to: Do you accept this licensing agreement (FIGURE 3).**

Tip – If you are not familiar with the Binary Code License Agreement read it completely. Press the Space Bar to review each of the supplemental licensing terms, before accepting the collective licensing agreement.

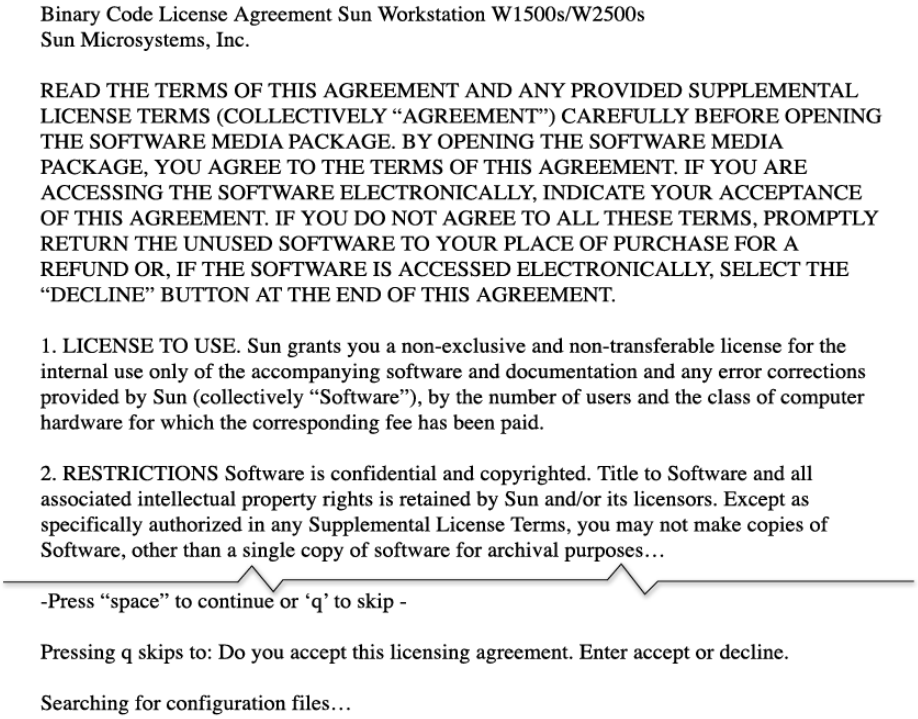

FIGURE 3 Binary Code License Agreement

5. **Type** `accept` **(**FIGURE 3**).**

6. **Collect the following information about your workstation and its network or non-network configuration.**

   For a networked system collect the following information:

   - Language you intend to use on the system
   - Whether to enable DHCP for automatic configuration in a TCP/IP environment
   - Host name of the system that you are installing
   - Host IP address
   - Network mask of your Subnet (Netmask)
   - Enable IPv6 on this network
   - Detect default router
   - Whether to use Kerberos security
   - Locales that you intend to use on the system
   - Type of name service used (for example, DNS, NIS, or NIS+, LDAP, or none)
   - Domain name
   - Host name of the name server
   - Host name and IP address of the name server

- Default Time Zone
- Date and Time
- Root password

For a non networked system, collect the following information:

- Host name of the system that you are installing
- Language you intend to use on the system
- Local where you plan to use the system

Note – The actual screens displayed on your workstation are determined by the configuration selections that you make when installing the Solaris 10 preinstalled software. Your screens might differ from the screens shown in this example.

---

7. **Select a language. Type** (`0, 1, 2, 3, 4, 5, 6, 7, 8,` or `9`)**.**

   The Solaris installer can be run in English or any of the following languages (FIGURE 4).

```
Select a language

0. English
1. French
2. German
3. Italian
4. Japanese
5. Korean
6. Simplified Chinese
7. Spanish
8. Swedish
9. Traditional Chinese

Please make a choice (0 – 9), or press h for help or ? for help:
```

FIGURE 4 Select a Language

After a few seconds the Welcome screen appears (FIGURE 5).

Wait while system information is gathered.

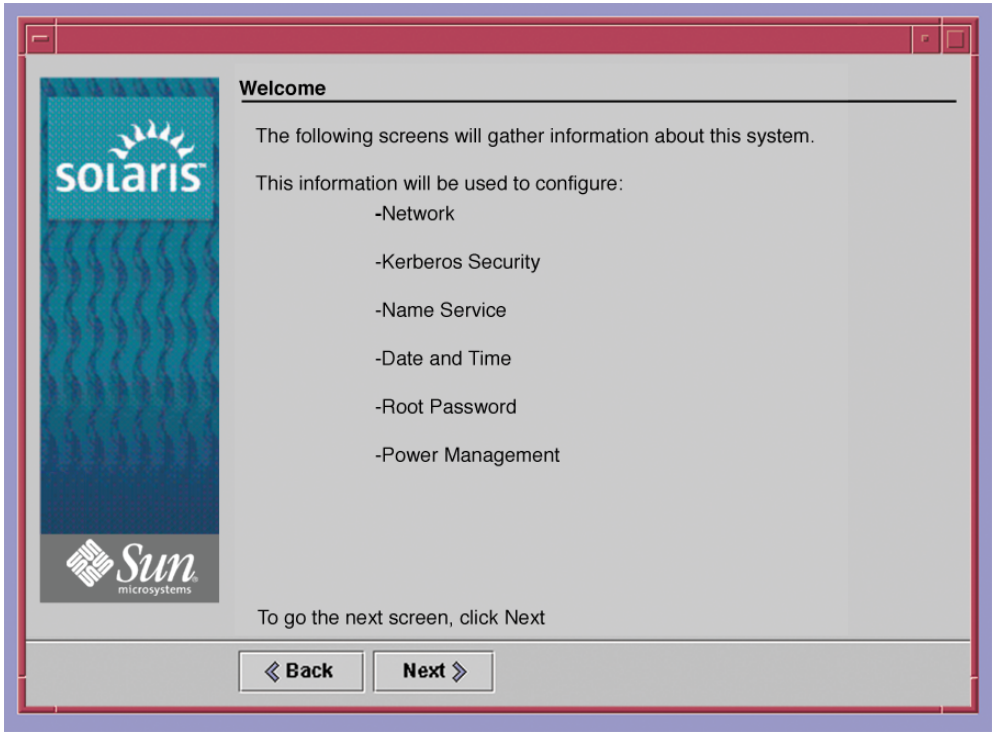

FIGURE 5 Welcome Screen

8. **Select the** `Network` **or** `Non-networked` **option for your workstation** (FIGURE 6)**.**
   In this example, `Network` is selected.

Tip – For additional information about configuring your workstation, refer to `http://docs.sun.com/app/docs/doc/817-0544/6mgbagb12?a=view`

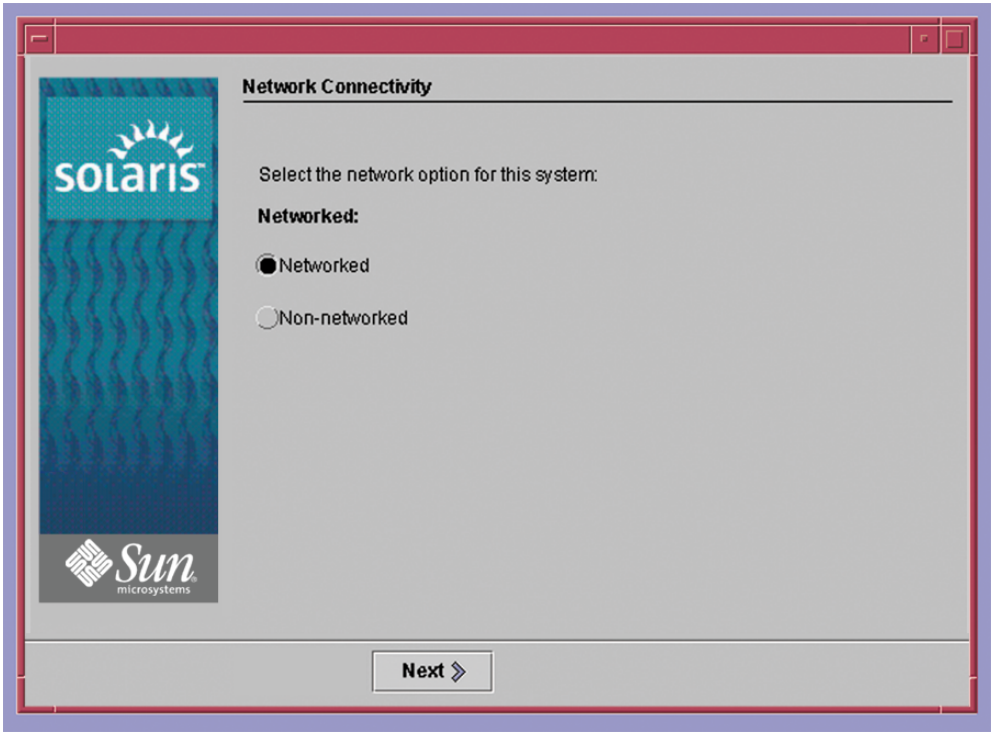

FIGURE 6 Network Connectivity

9. **Select `yes` to use Dynamic Host Configuration Protocol (DHCP) to configure the network interface or `no` not to use DHCP to configure the network interface.**

   In this example `no` was selected.

   Note – bge0 is the Broadcomm Gigabit Ethernet interface with the existing network.

   ---

10. **Select a host name for your workstation.**
11. **Enter the IP address for this workstation.**
12. **Specify the network mask of your subnet.**

    If you are not using DHCP you will need to specify the network mask.

13. **Select `yes` to enable IPv6 protocol on this workstation or `no` not to enable IPv6 protocol on this workstation.**

Note – In this example `no` was selected.

---

14. **Select `specify one`, `detect one`, or `none` to specify a default route IP address or let the Solaris installation program find one for the ICMP router.**

Note – In this example `Detect one` was selected.

---

15. **Select `yes` to configure Kerberos security on this workstation or no not to configure Kerberos security.**

Note – In this example `no` was selected.

---

16. **Select `NIS+`, `NIS`, `DNS`, `LDAP`, or `None` as the name server used on this workstation.**

Note – In this example `NIS` was selected.

---

17. **Specify the domain where this workstation resides.**

    Enter the name completely and correctly with all punctuation.

18. **Specify `Find one` to find the name server for this workstation or `Specify one` to specify a specific name server for this workstation.**
19. **Enter the host name and IP address of your name server.**
20. **Specify the Time zone by geographic region, offset from GMT, or time zone file.**
21. **Specify the continent and country that your workstation resides in.**
22. **Specify the current date and time.**
23. **Specify an alphanumeric password for your workstation.**
24. **Confirm your workstation's selection summary (FIGURE 7).**

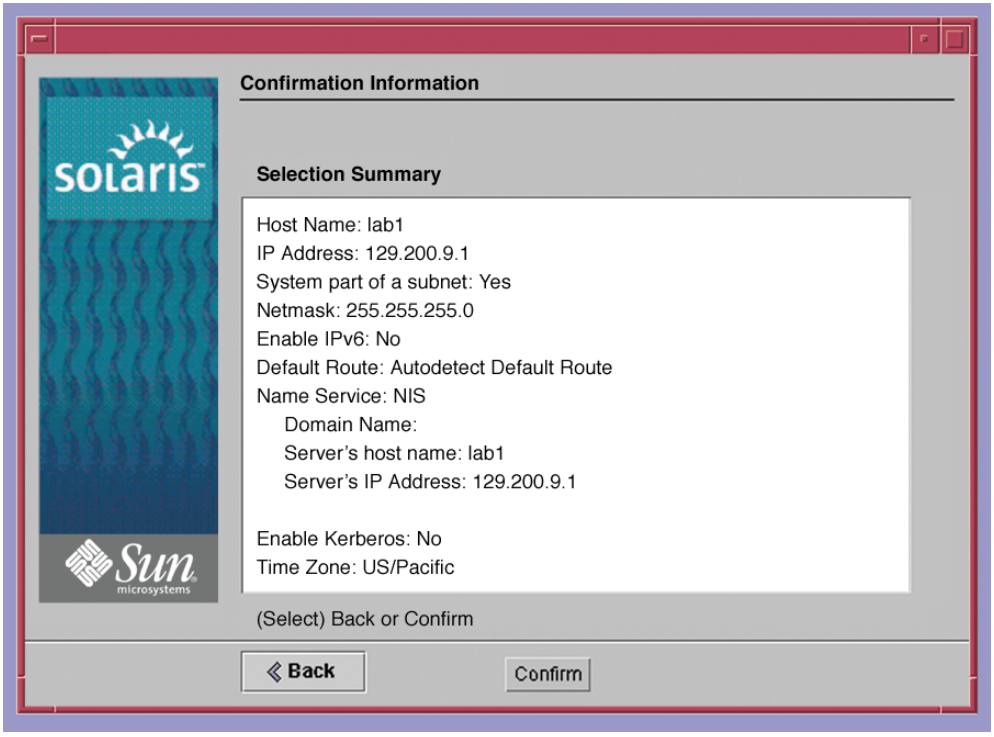

FIGURE 7 Conformation Information

25. **Wait while the workstation is rebooted and the system is configured (**FIGURE 8**).**

FIGURE 8 Solaris 10 Welcome Screen

26. **Enter your user name to begin using Solaris 10 software on your workstation.**

Tip – Review the latest Solaris 10 release notes for any late-breaking information about your preinstalled software. The *Solaris 10 Release Notes* can be found at: `http://docs.sun.com`

Documentation Information

This section describes changes to the Sun Blade 1500 (Silver) documentation.

Currently there are no known corrections for the Sun Blade 1500 (Silver) workstation documentation.