



# Solaris 8 (SPARC Platform Edition) Installation Guide

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# Preface

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The *Solaris 8 (SPARC Platform Edition) Installation Guide* describes how to use Solaris™ Web Start to install and upgrade the Solaris operating environment and related software on a single SPARC™ based system from a local CD-ROM drive.

This book does not describe how to install the Solaris operating environment on networked systems or how to use the Solaris 8 Interactive Installation Program, Solaris JumpStart™, or Solaris custom JumpStart to set up, automate, customize, and perform the installation of Solaris on any number of systems in a large enterprise network environment. These advanced topics are covered in the *Solaris 8 Advanced Installation Guide*.

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## Who Should Use This Book

This book is intended for users and system administrators who want to install Solaris software on a single system with Solaris Web Start, Sun Microsystems' graphical, wizard based, Java™ powered software installation application.

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## How This Book Is Organized

This section describes the chapters in this book.

Chapter 1 defines terms used in this book and describes how to plan and set up for the installation process.

Chapter 2 describes how to use Solaris Web Start to configure your system and install the Solaris software.

Chapter 3 discusses how to back up and plan for upgrading a system and how to set up, configure, and upgrade Solaris on a system. It also describes how to clean up after upgrading a system.

Chapter 4 describes how to add and remove individual software packages after installing the Solaris software.

Chapter 5 describes some of the problems you may encounter during installation and provides possible solutions.

Appendix A provides a brief description of each software package included on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD.

Appendix B provides a brief description of each software package included on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD.

Appendix C provides a brief description of each software package included on the Solaris 8 Languages SPARC Platform Edition CD.

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## Related Books

Table P-1 lists related information you may need when installing the Solaris 8 software.

TABLE P-1 Related Information

Information	Description
<i>Solaris 8 (SPARC Platform Edition) Release Notes</i>	Describes any bugs, known problems, software being discontinued, and patches related to the Solaris 8 release.
<i>Solaris 8 Sun Hardware Platform Guide</i>	Contains supported hardware information.



TABLE P-1 Related Information (continued)

Information	Description
<i>Solaris 8 Advanced Installation Guide</i>	Describes how to install the Solaris operating environment on networked systems and how to use the Solaris 8 Interactive Installation Program, Solaris JumpStart, and Solaris custom JumpStart to set up, automate, customize, and perform the installation of Solaris on any number of systems in a large enterprise network environment.
<i>Solaris Transition Guide</i>	Describes transition issues including backing up Solaris 1.x (SunOS 4.x) files before installing Solaris 8 software, and restoring files after Solaris 8 software is installed.

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## Accessing Sun Documentation Online

The docs.sun.com<sup>SM</sup> Web site enables you to access Sun technical documentation online. You can browse the docs.sun.com archive or search for a specific book title or subject. The URL is <http://docs.sun.com>.

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## What Typographic Conventions Mean

The following table describes the typographic changes used in this book.

TABLE P-2 Typographic Conventions

Typeface or Symbol	Meaning	Example
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name%</code> you have mail.
<b>AaBbCc123</b>	What you type, contrasted with on-screen computer output	<code>machine_name% su</code> Password:
<i>AaBbCc123</i>	Command-line place holder: replace with a real name or value	To delete a file, type <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new words or terms, or words to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. Do <i>not</i> save changes yet.

---

## Shell Prompts in Command Examples

The following table shows the default system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

TABLE P-3 Shell Prompts

Shell	Prompt
C shell prompt	<code>machine_name%</code>
C shell superuser prompt	<code>machine_name#</code>
Bourne shell and Korn shell prompt	<code>\$</code>
Bourne shell and Korn shell superuser prompt	<code>#</code>

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# Getting Started

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This chapter describes how to plan for and set up the installation of Solaris 8 *SPARC Platform Edition*.

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**Note** - Solaris software might be preinstalled on your system; see your hardware documentation.

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## Terms Used in This Book

Before you get started, you must understand these terms.

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Term	Definition
custom JumpStart	A type of installation in which the Solaris software is automatically installed on a system based on a user-defined profile. You can create customized profiles for different types of users and systems.
cylinder	In a disk drive, the set of tracks with the same nominal distance from the axis about which the disk rotates. See also <i>track</i> , <i>sector</i> .
DHCP (Dynamic Host Configuration Protocol)	An application-layer protocol that enables individual computers, or clients, on a TCP/IP network to extract an IP address and other network configuration information from a designated and centrally maintained DHCP server or servers. DHCP reduces the overhead of maintaining and administering a large IP network.

---

<b>Term</b>	<b>Definition</b>
initial installation	The fresh installation of Solaris that overwrites all the information on a system's disk. See also <i>upgrade</i> .
IPv6	A new version (version 6) of Internet Protocol (IP) designed to be an evolutionary step from the current version, IPv4 (version 4). It is an increment to IPv4. Deploying IPv6, using defined transition mechanisms, does not disrupt current operations. In addition, IPv6 provides a platform for new Internet functionality.  IPv6 is described in more detail in "Overview of IPv6" in <i>System Administration Guide, Volume 3</i> .
Kiosk	A browser-based environment in which information, such as documentation, web pages, and other content, is displayed as the user installs the Solaris software with Solaris Web Start.
miniroot	The smallest possible bootable Solaris root (/) file system. A miniroot contains a kernel and just enough software to install the Solaris environment on a hard disk. The miniroot is the file system that is copied to a machine in the initial installation.
package	A collection of software that is grouped into a single entity for modular installation.
Power Management	Software that automatically saves the state of a system and turns it off after it is idle for 30 minutes. When you install the Solaris software on a system that complies with Version 2 of the U.S. Environmental Protection Agency's Energy Star guidelines—a sun4u SPARC system, for example—the Power Management software is installed by default, and you are prompted after subsequently rebooting to enable or disable the Power Management software.  Energy Star guidelines require that systems or monitors automatically enter a "sleep state" (consume 30 watts or less) after the system or monitor becomes inactive.
sector	A data storage area on a disk, or sections of each disk ring. A sector can usually hold 512 bytes.

Term	Definition
Solaris 8 Interactive Installation Program	A graphical user interface (GUI) or character user interface (CUI) based, menu-driven, interactive script that enables you to set up a system and install the Solaris 8 software on it.
Solaris Web Start	A graphical, wizard based, Java powered software application that installs the Solaris operating environment and other software on a single system from a local or remote CD-ROM drive. You can also run Solaris Web Start through a command-line interface. Compare with custom JumpStart and Solaris 8 Interactive Installation Program.
swap	<p>A slice used by Solaris software to temporarily store programs and data that do not fit into a system's memory (the programs and data in <code>swap</code> are removed or overwritten every time the system is rebooted). If the swap space is too small, some programs might not run after installation. If the swap space is too large, other files required for installation might not fit on the disk.</p> <p>The recommended swap size for the majority of users is 512 Mbytes.</p> <hr/> <p><b>Note</b> - If necessary, you can subsequently increase (but not decrease) the swap space on a system on which you install the Solaris software.</p> <hr/>
track	A concentric ring on a disk that passes under a single stationary disk head as the disk rotates.
upgrade	The merging of a new version of Solaris with an existing version on your disk; upgrading your system with a new version of Solaris saves as many local modifications as possible since the last time Solaris was installed. See also <i>initial installation</i> .
wizard	A self-contained, graphical user interface-based program that guides you through a specific task.

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# Planning and Setting Up for Installation

## Ways to Run Solaris Web Start

You can run Solaris Web Start two ways, as a:

- Graphical user interface, which requires a local or remote CD-ROM drive or network connection, frame buffer, keyboard, and monitor
- Command-line user interface, which requires a local or remote CD-ROM drive or network connection, keyboard, and monitor; you can run the Solaris Web Start command-line user interface with `tip(1)`

The content and sequence of instructions in both the graphical user interface and command-line user interface are generally the same, with slight differences, as shown by these examples:

**CODE EXAMPLE 1-1** Graphical User Interface: Time Zone Dialog Box



**CODE EXAMPLE 1-2** Command-line User Interface: Time Zone Menu and Prompt

```
Please select how to specify your default time zone.  
  
Specify Time Zone by:  
  
1. Geographic region  
2. Offset from GMT
```

(continued)

```
3. Time zone file
```

```
Please enter the number corresponding to how you would like to specify
the time zone [1]:
```

## What Determines Which Interface Is Used

If Solaris Web Start detects a frame buffer for the system, it uses the graphical user interface, and if it does *not*, it uses the command-line user interface.

## ▼ To Plan Your Installation

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**Note** - The instructions in this book describe how to install Solaris 8 software using a CD. If you choose to install Solaris 8 software over a network, some steps might differ.

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### 1. Use this decision table to determine what to do first.

If you intend to install Solaris software from	Then go to
A CD-ROM drive attached to your system	Step 2 on page 15.
A remote CD-ROM drive on a network	<i>Solaris 8 Advanced Installation Guide</i> and the steps presented in this and later chapters.

---

### 2. Is Solaris already installed on the system?

- If yes, go to Chapter 3 in this book.
- If no, go to Step 3 on page 15.

### 3. Make sure your hardware is supported.

See the *Solaris 8 Sun Hardware Platform Guide*.

### 4. If your system is attached to a network, gather the following information about the system on which you intend to install the Solaris operating environment.

---

**Note** - If Solaris is not already installed on the system, contact your system administrator or whoever is responsible for maintaining your network to find the following information.

---

Information	Example	To find the information (with Solaris installed), use
Host name	crater	<code>uname -n</code>
Host IP address	129.221.2.1	<code>ypmatch system_name hosts</code> or <code>nismatch system_name hosts.org_dir</code>
Subnet mask	255.255.255.0	<code>more /etc/netmasks</code>
Type of name service (DNS, NIS, or NIS+)	<pre>passwd:  files nis group:   files nis  hosts:   xfn nis [NOTFOUND=return] files networks: nis [NOTFOUND=return] files protocols: nis [NOTFOUND=return] files rpc:     nis [NOTFOUND=return] files ethers:  nis [NOTFOUND=return] files netmasks: nis [NOTFOUND=return] files bootparams: nis [NOTFOUND=return] files publickey: nis [NOTFOUND=return] files  netgroup: nis  automount: files nis aliases:  files nis  services: files nis sendmailvars: files</pre>	<code>cat /etc/nsswitch.conf</code>
Domain name	lbloom.West.Arp.COM	<code>domainname</code>
Host name of name server	thor75	<code>ypwhich</code>
Host IP address of name server	129.153.75.20	<code>ypmatch nameserver_name hosts</code> or <code>nismatch nameserver_name hosts.org_dir</code>



5. Determine which of the following software you intend to install and the total disk space the combined software will require.

- The Solaris software group:

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Software Group	Recommended Disk Space
Entire Distribution Plus OEM Support	2.4 Gbytes
Entire Distribution	2.3 Gbytes
Developer System Support	1.9 Gbytes
End User System Support	1.6 Gbytes

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**Note** - Swap space is included in the disk space recommendations. A minimum of 320 Mbytes is required for swap space, but more might be needed due to available memory and other factors. By default, Solaris Web Start allocates 512 Mbytes for swap space.

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- Additional software  
See the documentation to determine the disk space you'll need.
- Vendor or third-party software  
See the vendor or third-party software documentation.
- Space for home directories  
Home directories might contain user files such as mail, text or data files, or application files.

6. Determine the language you want to use to install Solaris. If you use the CD labeled:

- Solaris 8 Installation English SPARC Platform Edition—all prompts, messages, and other installation information are displayed in English only.
- Solaris 8 Installation Multilingual SPARC Platform Edition—you can select one of the following languages in which to display all prompts, messages, and other installation information:
  - Simplified Chinese
  - Traditional Chinese
  - English
  - French
  - German
  - Italian
  - Japanese
  - Korean
  - Spanish

- Swedish

**7. Make sure you have *at least* the following CDs:**

- Solaris 8 Installation English SPARC Platform Edition *or* Solaris 8 Installation Multilingual SPARC Platform Edition
- Solaris 8 Software 1 of 2 SPARC Platform Edition *and* Solaris 8 Software 2 of 2 SPARC Platform Edition
- Solaris 8 Languages SPARC Platform Edition (if you use the Multilingual CD)

## ▼ To Set Up for Installation

**1. Do you intend to install the Solaris software through a `tip(1)` line?**

- If no, go to the next step.
- If yes, make sure your window display is at least 80 columns wide and 24 rows long.

---

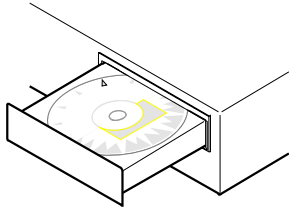
**Note** - To determine the current dimensions of your `tip` window, use the `stty(1)` command.

---

**2. Insert the CD labeled Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition into the system's CD-ROM drive:**

**CD-ROM Drive - Tray Version**

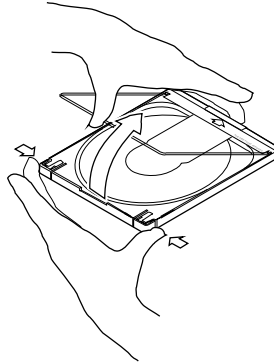
1. Press the eject button on the front panel of the CD-ROM drive. A tray slides out.



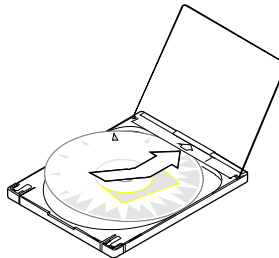
2. Insert the CD labeled Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition (logo facing up) into the tray.
3. Push the tray into the CD-ROM drive.

**CD-ROM Drive - Caddy Version**

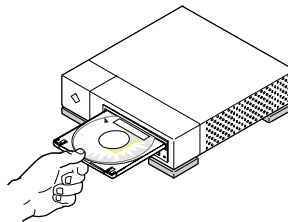
1. To open the caddy, pinch the corners while lifting the lid at the center.



2. Insert the CD labeled Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition (logo facing up) and close the caddy.



3. With the arrow on the caddy pointing toward the CD-ROM drive, insert the caddy.

**3. Boot the system:**

<b>If your system is</b>	<b>Then</b>
New, out-of-the-box	Turn on the system.
Existing	Display the ok prompt (by typing halt as superuser or by pressing both the Stop and A keys at the same time), and then type:  <b>boot cdrom</b>

- If you're using the CD labeled Solaris 8 Installation English SPARC Platform Edition, information similar to this is displayed:

```

Boot device: /sbus/espdma@e,8400000/esp@e,8800000/sd@6,0:f  File and args:
SunOS Release 5.8 Version Generic 32-bit
Copyright 1983-2000 Sun Microsystems, Inc.  All rights reserved.
Configuring /dev and /devices
Using RPC Bootparams for network configuration information.
le0: No carrier - cable disconnected or hub link test disabled?
Solaris Web Start 3.0 installer

English has been selected as the language in which to perform the install.
Starting the Web Start 3.0 Solaris installer

Solaris installer is searching the system's hard disks for a
location to place the Solaris installer software.

Your system appears to be upgradeable.
Do you want to do a Initial Install or Upgrade?

1) Initial Install
2) Upgrade
Please Enter 1 or 2 >

```

- If you're using the CD labeled Solaris 8 Installation Multilingual SPARC Platform Edition, information similar to this is displayed:

```

Boot device: /sbus/espdma@e,8400000/esp@e,8800000/sd@6,0:f  File and args:
SunOS Release 5.8 Version Generic 32-bit
Copyright 1983-2000 Sun Microsystems, Inc.  All rights reserved.
Configuring /dev and /devices
Using RPC Bootparams for network configuration information.
le0: No carrier - cable disconnected or hub link test disabled?
Solaris Web Start 3.0 installer

The Solaris Installer can be run in English, or any of the following languages:

1) English          6) Japanese
2) German           7) Korean

```

(continued)

```
3) Spanish          8) Swedish
4) French           9) Simplified_Chinese
5) Italian          10) Traditional_Chinese
Select the language you want to use to run the installer:
```

#### 4. Which installation CD are you using?

- If the Solaris 8 Installation English SPARC Platform Edition CD, go to the next step.
- If the Solaris 8 Installation Multilingual SPARC Platform Edition CD, type the number to select the language in which to display prompts, messages, and other installation information.

Information similar to this is displayed (in the language you selected):

```
language_you_selected has been selected as the language in which to perform the install.
Starting the Web Start 3.0 Solaris installer

Solaris installer is searching the system's hard disks for a
location to place the Solaris installer software.

Your system appears to be upgradeable.
Do you want to do a Initial Install or Upgrade?

1) Initial Install
2) Upgrade
Please Enter 1 or 2 >
```

#### 5. At the prompt, type 1 for initial installation and press Return.

Information similar to this is displayed:

```
The default root disk is /dev/dsk/c0t0d0.
The Solaris installer needs to format
/dev/dsk/c0t0d0 to install Solaris.

WARNING: ALL INFORMATION ON THE DISK WILL BE ERASED!
```

(continued)

```
Do you want to format /dev/dsk/c0t0d0? [y,n,?,q]
```

**6. At the prompt, type *y* and press Return.**

Information similar to this is displayed:

```
NOTE: The swap size cannot be changed during filesystem layout.
```

```
Enter a swap slice size between 384MB and 2027MB, default = 512MB [?]
```

**7. At the prompt, press Return to accept the default swap slice size, or type the swap slice size you want and press Return.**

Information similar to this is displayed:

```
The Installer prefers that the swap slice is at the beginning of the  
disk. This will allow the most flexible filesystem partitioning later in the installation.
```

```
Can the swap slice start at the beginning of the disk [y,n,?,q]
```

**8. Do you want to place the swap space at the beginning of the disk (and thus improve the flexibility of partitioning the file system and the efficiency with which the disk is accessed)?**

- If yes, type *y*, press Return, and go to Step 10 on page 23.
- If no, type *n* and press Return.

Information similar to this is displayed:

```
WARNING: Placing the swap slice at a cylinder location other than cylinder 0
requires expert knowledge about disk layout. This choice may affect
disk layout choices later in the installation.
```

```
Enter a starting cylinder between 0 and 2043, default = 0 [?]
```

**9. Press Return to accept the default starting cylinder (0), or type the starting cylinder you want and press Return.**

Information similar to this is displayed:

```
You have selected the following to be used by the Solaris installer:
```

```
    Disk Slice  : /dev/dsk/c0t0d0
    Size        : 512 MB
    Start Cyl.  : 0
```

```
WARNING: ALL INFORMATION ON THE DISK WILL BE ERASED!
```

```
Is this OK [y,n,?,q]
```

**10. At the prompt, type y and press Return.**

Information similar to this is displayed:

```
The Solaris installer will use disk slice, /dev/dsk/c0t0d0s1.
After files are copied, the system will automatically reboot, and
installation will continue.
Please Wait...
```

```
Copying mini-root to local disk....done.
```

```
Copying platform specific files....done.
```

```
Preparing to reboot and continue installation.
```

```
Rebooting to continue the installation.
```

```
Syncing file systems... 41 done
```

```
rebooting...
```

```
Resetting ...
```

```
Sun Ultra 1 SBus (UltraSPARC 143MHz), Keyboard Present
OpenBoot 3.5, 64 MB memory installed, Serial #9058749.
Ethernet address 8:0:20:8d:35:a5, Host ID: 808d35a5.
```

```
Rebooting with command: boot /sbus@1f,0/espdma@e,8400000/esp@e,8800000/sd@0,0:b
```

(continued)

```
Boot device: /sbus@1f,0/espdma@e,8400000/esp@e,8800000/sd@0,0:b File and args:
SunOS Release 5.8 Version Generic 32-bit
Copyright 1983-2000 Sun Microsystems, Inc. All rights reserved.
Configuring /dev and /devices
Using RPC Bootparams for network configuration information.
le0: No carrier - cable disconnected or hub link test disabled?
```

After a few seconds, the Welcome screen is displayed:



**11. Go to Chapter 2.**



## Using Solaris Web Start

---

This chapter explains how to use Solaris Web Start to install Solaris software.

---

**Note** - Information about customizing the Solaris and other product software you install on a system is presented in Chapter 4.

---



---

## Default Behavior and Limitations of Solaris Web Start

Table 2-1 summarizes what Solaris Web Start does and does not let you do, as well as what it does by default.

**TABLE 2-1** Default Behavior and Limitations of Solaris Web Start

By default, Solaris Web Start	You can, however	But, you cannot
Installs all of the Solaris software at once	Install individual software groups or additional software products	Install individual packages that make up a software group
Creates the default disk slices	Change the size of slices	Change the swap size at the file system stage of installation
<b>Note</b> - You cannot change the default <code>swap</code> slice size.		

TABLE 2-1 Default Behavior and Limitations of Solaris Web Start (continued)

By default, Solaris Web Start	You can, however	But, you cannot
Sets up the system disk	Set up other disks by choosing Custom Install and using the Lay Out File Systems dialog box	—
Installs additional software in one session	Install additional software in a location other than the default (provided the installation software for the additional software supports changing the default location where the software is installed)	Place unbundled and other software in a slice other than /opt
Installs English versions of the Solaris environment	Choose to install additional localized versions of Solaris	Omit the installation of the English version of the Solaris environment

## Limitations of Default Install on Systems With More Than One Disk

If you're installing software on a system that contains more than one disk, selecting Default Install on the Select Type of Install dialog box sets up only the system disk.

The system does not recognize other disks unless you manually set up file systems on them, mount the file systems, and create entries for them in `/etc/vfstab`. "Managing File Systems (Overview)" in *System Administration Guide, Volume 1* and `format(1M)` describe how to set up file systems.

If you want Solaris Web Start to set up *all* the disks in your system, select Custom Install on the Select Type of Install dialog box and select all the disks shown on the Lay Out File Systems dialog box.

## Laying Out a File System Manually

Solaris Web Start lays out file systems for you automatically, and these file system configurations are adequate for most situations.

However, you might lay out file systems manually if you need to install other products not included in your product box. These products must share the same file systems used by the Solaris software (`root (/)`, `/usr`, and `/swap`).

If you need to lay out file systems manually, Solaris Web Start provides the tools you need to:

- Select the disks you want
- Select the file systems you want
- Create, rename, move, delete, expand, or shrink file systems

---

**Note** - You cannot change the size of the default `swap` slice.

---

- View a summary of and confirm your choices

---

**Note** - Editing file systems requires advanced system administrator's knowledge. Do not alter the layout of file systems unless you have experience.

---

---

## Using Solaris Web Start to Install Solaris

### ▼ To Configure Your System

---

**Note** - Your computer system must include a local or remote CD-ROM drive or network connection, frame buffer, keyboard, and monitor to install Solaris software with the Solaris Web Start graphical user interface. However, your computer system need only include a local or remote CD-ROM drive or network connection, keyboard, and monitor to install Solaris software with the Solaris Web Start command-line user interface.

---

#### 1. Did you follow the steps in Chapter 1?

- If no, go back to Chapter 1.
- If yes, go to the next step.

#### 2. On the Welcome screen, click Next >.

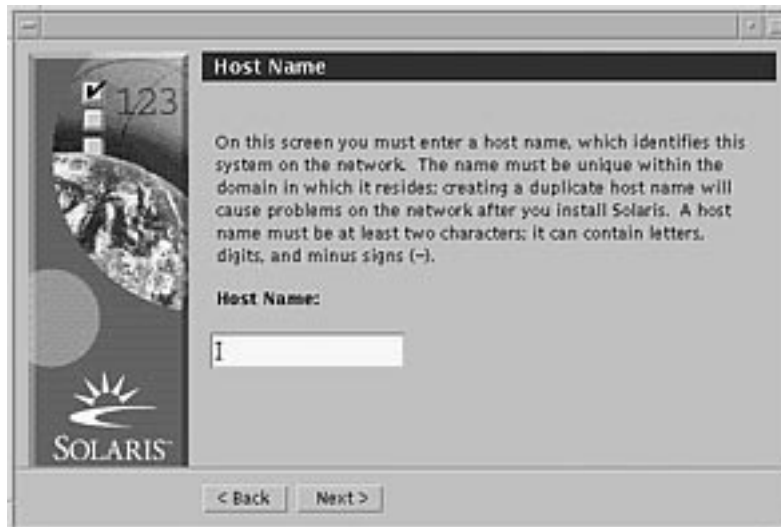
Solaris Web Start attempts to gather information about your system. The Network Connectivity dialog box is then displayed:



### 3. Is the system networked?

- If no, select Non-networked and click Next >.

The Host Name dialog box is displayed:



- If yes, select Networked and click Next >.

The DHCP dialog box is displayed:



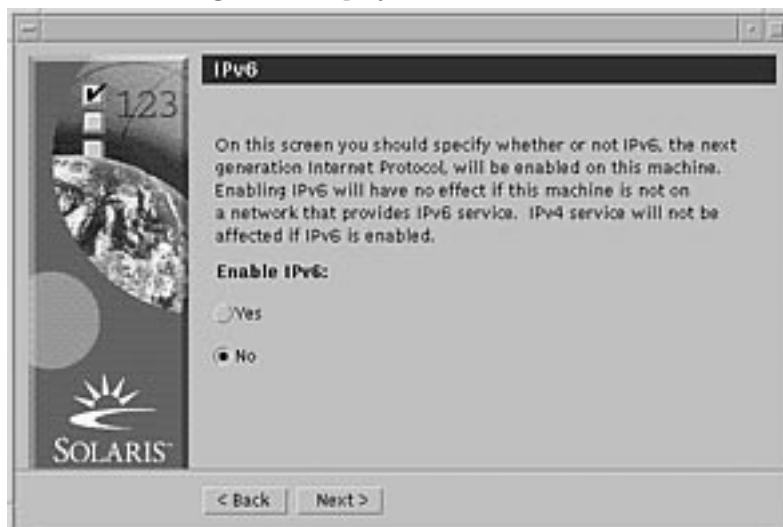
**4. Did you select Networked in Step 3 on page 28?**

- If no, go to Step 7 on page 30.
- If yes, go to the next step.

**5. Do you want to use DHCP for the network interface configuration?**

- If no, select No, click Next >, and go to Step 7 on page 30.
- If yes, select Yes and click Next >.

The IPv6 dialog box is displayed:

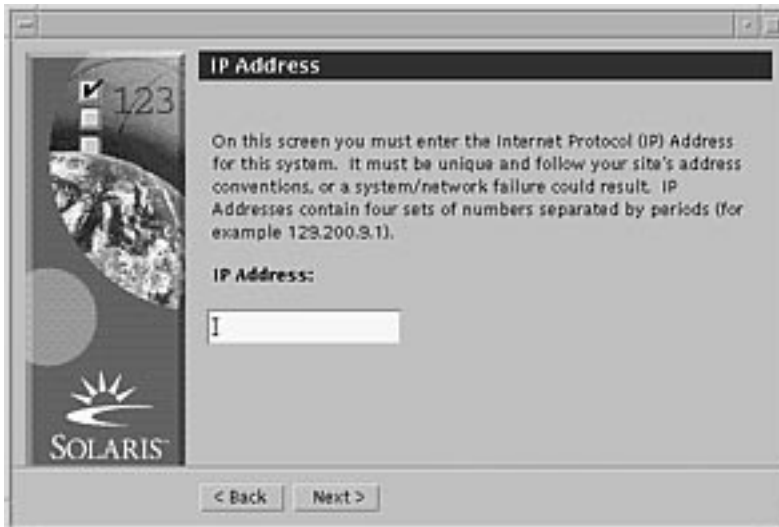


**6. Do you want to enable IPv6?**

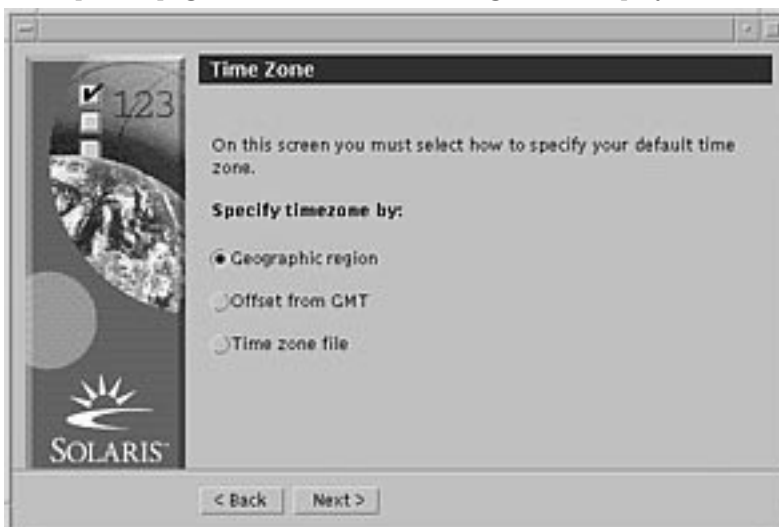
- If no, select No, click Next >, and go to Step 11 on page 32.
- If yes, select Yes, click Next >, and go to Step 11 on page 32.

**7. On the Host Name dialog box, type the host name you want and click Next >.**

If you selected Networked on the Network Connectivity dialog box shown in Step 3 on page 28, the IP Address dialog box is displayed:



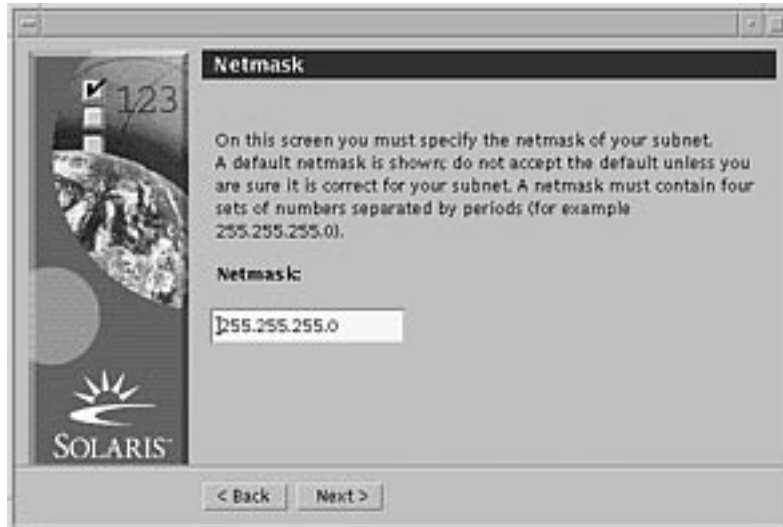
If you selected Non-networked on the Network Connectivity dialog box shown in Step 3 on page 28, the Time Zone dialog box is displayed:



**8. Is your system networked (that is, did you select Networked on the Network Connectivity dialog box)?**

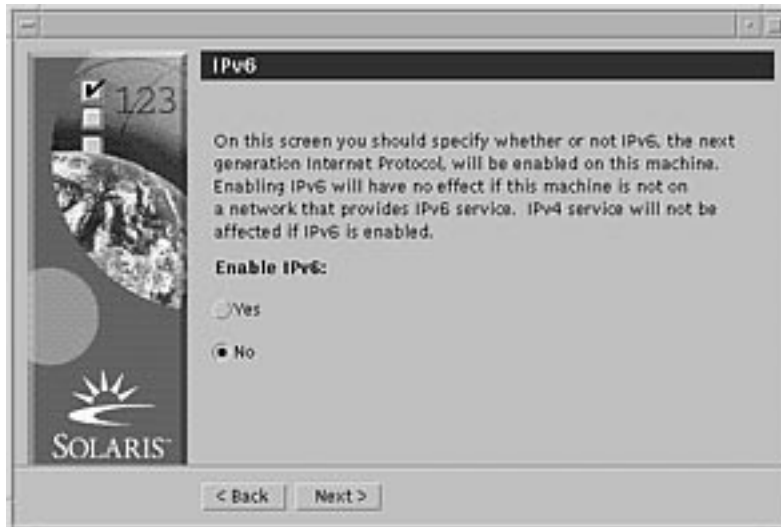
- If no, go to Step 15 on page 36.
- If yes, did you specify that you want DHCP used for the network interface configuration (that is, did you select Yes on the DHCP dialog box)?
  - If yes, go to Step 11 on page 32.
  - If no, on the IP Address dialog box, type the IP address of your networked system and click Next >.

The Netmask dialog box is displayed:



**9. Type the netmask you want (or leave the default netmask) and click Next >.**

The IPv6 dialog box is displayed:



**10. Do you want to enable IPv6?**

- If no, select No and click Next >.
- If yes, select Yes and click Next >.

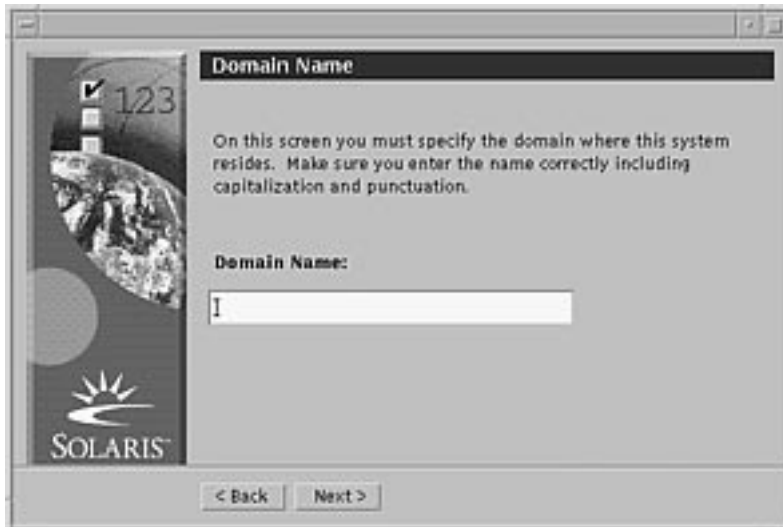
The Name Service dialog box is displayed:



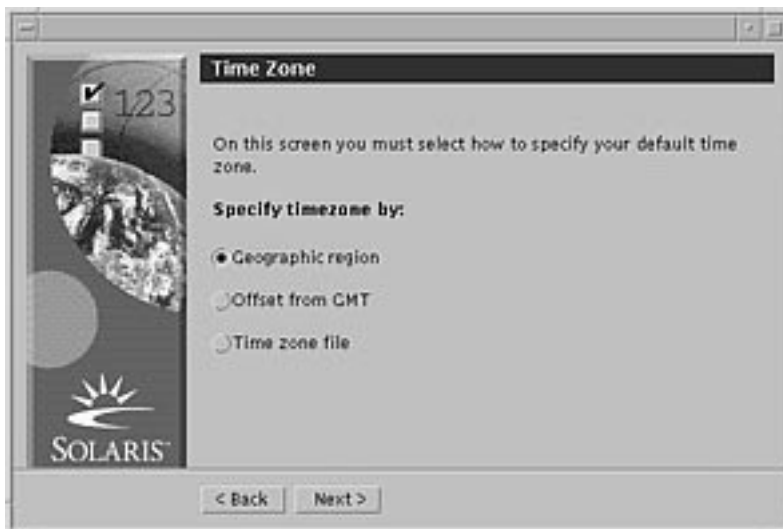
**11. Select the name service the system will use, or None if you aren't using a name service, and click Next >.**

If you selected NIS+, NIS, or DNS, the Domain Name dialog box is displayed:





If you selected None, the Time Zone dialog box is displayed:



**12. Did you select None in the preceding step?**

- If yes, go to Step 15 on page 36.
- If no, type the name of the domain in which the system is located and click Next >.

If you selected NIS+ or NIS, the Name Server dialog box is displayed:



If you selected DNS, the DNS Server Address dialog box is displayed:



### 13. Are you using NIS+/NIS or DNS?

- If NIS+ or NIS, select “Find one” or “Specify one” and click Next >.
- If you selected “Find one,” the Time Zone dialog box is displayed.
- If you selected “Specify one,” the Name Server Information dialog box is displayed:



- If DNS, type the IP address of the DNS server or servers you want and click Next >.

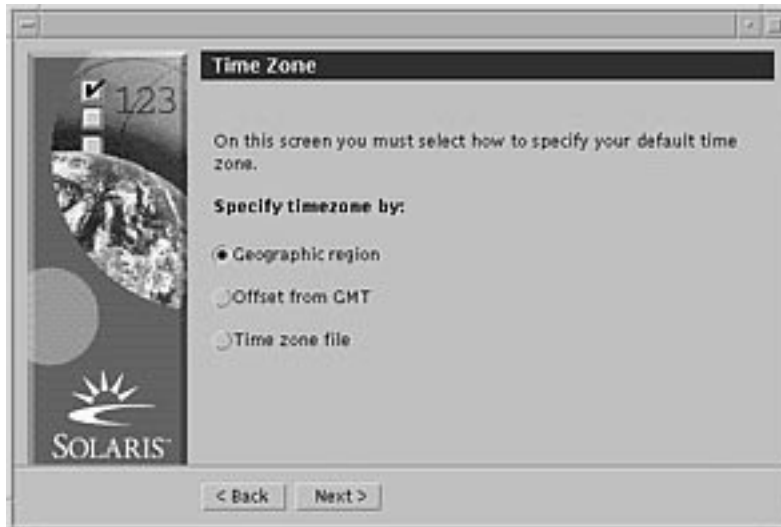
The DNS Search List dialog box is displayed:



#### 14. Are you using NIS+ /NIS or DNS?

- If NIS+ or NIS, on the Name Server Information dialog box, type the host name and IP address of your name server and click Next >.
- If DNS, type the name of the domain or domains you want searched when a DNS query is made, if any, and click Next >.

The Time Zone dialog box is displayed:



**15. On the Time Zone dialog box, select how you want to set your default time zone and click Next >.**

The Geographic Region, Offset From GMT, or Time Zone File dialog box is displayed, depending on the method you chose.

**16. Use this decision table to determine what to do next:**

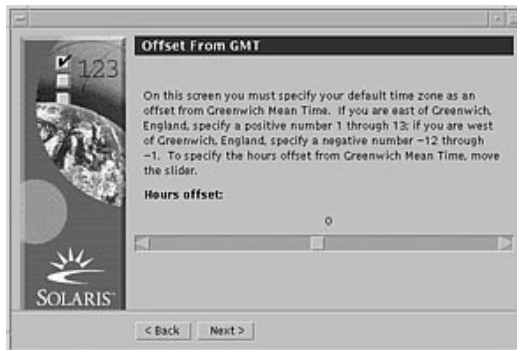
---

**If you chose**

**Then**



Select the region you want in the left window and the time zone in the right, and click Next >.



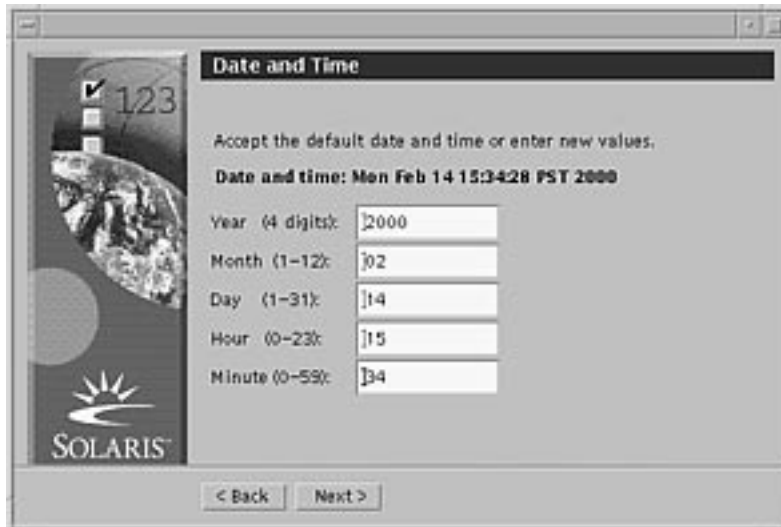
Drag the slider toward the left (for west of Greenwich, England) or right (for east of Greenwich, England), and click Next >.



Specify the name of any file in /usr/share/lib/zoneinfo, or click Select to choose a file in this directory, and click Next >.

---

The Date and Time dialog box is displayed:



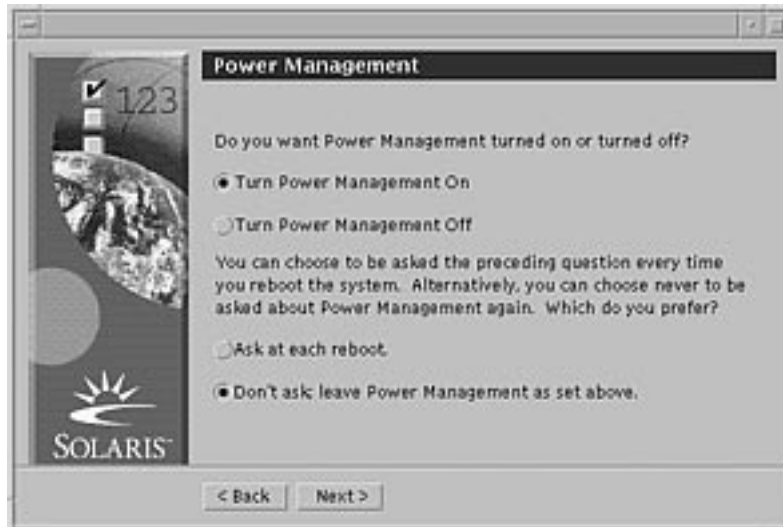
**17. If necessary, correct the date and time, and click Next >.**

The Root Password dialog box is displayed:



**18. Type the alphanumeric string you want to use for the superuser password in both fields, and click Next >.**

The Power Management™ dialog box is displayed:



19. Choose whether you want Power Management turned on or off and whether you want to be asked to turn it on or off every time you reboot, and click **Next >**.

---

**Note** - Power Management software automatically saves the state of a system and turns it off after it is idle for 30 minutes. When you install the Solaris software on a system that complies with Version 2 of the U.S. Environmental Protection Agency's Energy Star guidelines—a sun4u SPARC system, for example—the Power Management software is installed by default, and you are prompted after subsequently rebooting to enable or disable the Power Management software.

---

The Proxy Server Configuration dialog box is displayed:



**20. Does the system go through a proxy server to access the Internet?**

- If no, select Direct connection to the Internet and click Next >.
- If yes, select Use Proxy Configuration Below, specify the host name and port of the proxy server for the system, and click Next >.

The Confirm Information dialog box is displayed:



**21. Is the information on the Confirm Information dialog box correct?**

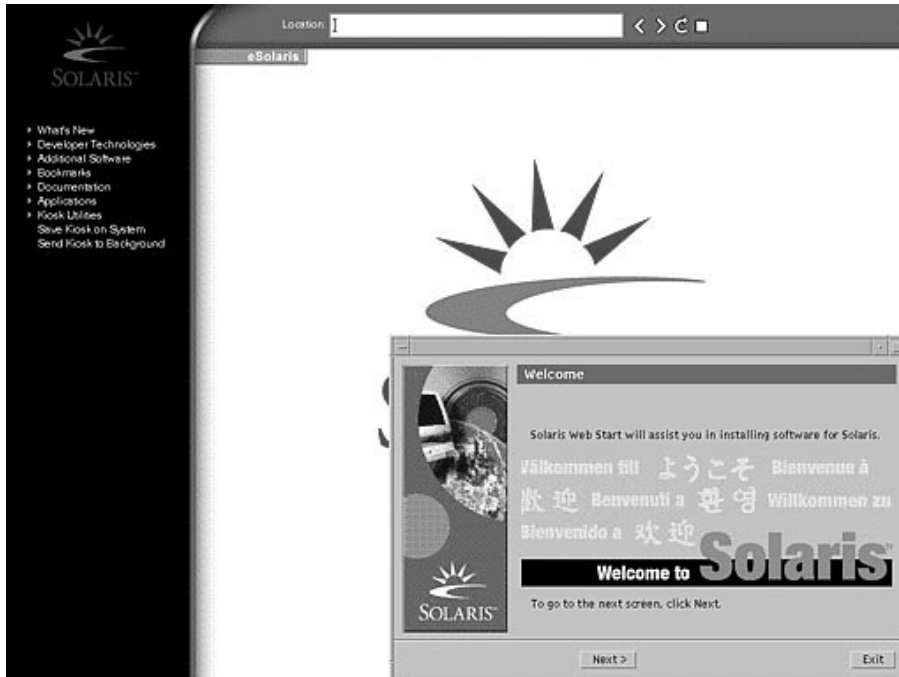


- If no, click < Back until you display the dialog box you need to correct the information.
- If yes, click Confirm.

The message:

Please wait while the system is configured with your settings...

is displayed in the Confirm Information dialog box. The Extracting dialog box is displayed momentarily. Then the Solaris Web Start Installation Kiosk and Welcome to Solaris dialog box are displayed:




---

**Note** - From this point on, you can click on any link listed in the Kiosk menu.

In some cases, the Kiosk might obscure a dialog box. To display an obscured dialog box, on the Kiosk menu, click Send Kiosk to Background.

---

---

**Note** - Click Save Kiosk on System to copy the Kiosk to your system (to `/var/sadm/webstart/kiosk`) so you can use it after you install the Solaris software. To use the Kiosk, you must also:

- Use Netscape™ Communicator 4.7.
  - Point Netscape to `/var/sadm/webstart/kiosk/index.html`.
  - In the CDE Style Manager, check Point In Window To Make Active and uncheck Raise Window When Made Active.
- 

## ▼ To Install Solaris

1. **On the Welcome to Solaris dialog box, click Next >.**

The Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition CD is ejected and the Insert CD dialog box is displayed:



2. **Remove the CD from the tray or caddy, and insert the CD labeled Solaris 8 Software 1 of 2 SPARC Platform Edition.**
3. **Push the tray in or insert the caddy and click OK on the Insert CD dialog box.**  
The Reading CD and Initializing dialog boxes are displayed. The Select Type of Install dialog box is then displayed:



#### 4. Which type of installation do you want to perform?

- If Default Install, select Default Install, click Next >, and go to Step 19 on page 50.
- If Custom Install, select Custom Install and click Next >.

---

**Note** - Custom Install enables you to install additional Solaris and third-party products from a CD, from a local or network file system, or by downloading from a web page displayed in the Kiosk.

---

The Select Software Localizations dialog box is displayed:



5. Select the geographic regions and localizations you want to install in addition to English and click Next >.

The Select System Locale dialog box is displayed:



6. Select the initial locale you want to be used after Solaris is installed and click Next >.

---

**Note** - English (United States, en\_US) is selected by default.

---

The Select Products dialog box is displayed:



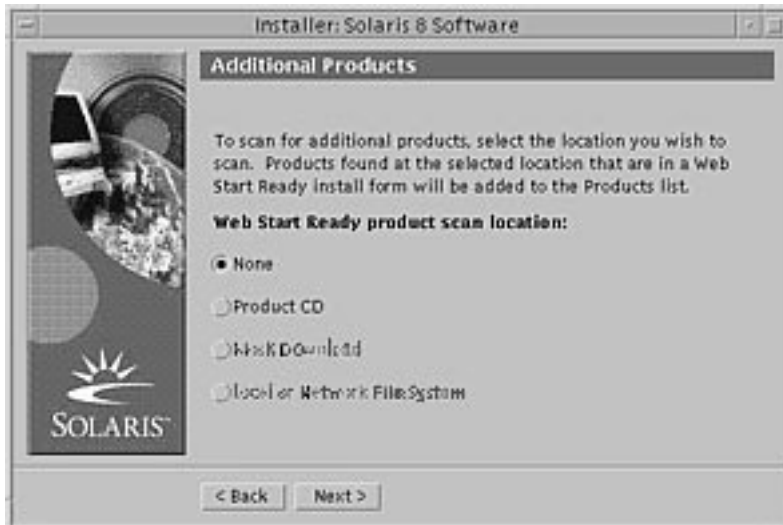
7. Select the product or products you want to install in addition to Solaris 8 and click Next >.

---

**Note** - A description of each product, if available, is displayed when you select it.

---

The Additional Products dialog box is displayed:



**8. Do you want to install additional third-party or other software products (that can be installed with Solaris Web Start)?**

- If no, select None, click Next >, and go to Step 12 on page 47.
- If yes, select Product CD, Kiosk Download, or Local or Network File System, and click Next >.
  - If you selected Product CD, the Solaris 8 Software 1 of 2 SPARC Platform Edition CD is ejected and the Insert CD dialog box is displayed.
  - If you selected Kiosk Download, the Scanning dialog box is displayed. When Solaris Web Start is done scanning the Kiosk download area (/webstart/kiosk/download), the Select Products dialog box is displayed. The products you can install with Solaris Web Start are listed in the windows.
  - If you selected Local or Network File System, the Specify Network File System Path dialog box is displayed:



**9. Which product source did you specify previously?**

- If Product CD, remove the Solaris 8 Software 1 of 2 SPARC Platform Edition CD from the tray or caddy, insert the product CD you want, and click OK on the Insert CD dialog box. The Scanning CD dialog box is displayed. When Solaris Web Start is done scanning the product CD, the Select Products dialog box is displayed. The contents of the product CD you can install with Solaris Web Start are listed in the windows.
- If Kiosk Download, go to the next step.
- If Local or Network File System, on the Specify Network File System Path dialog box, type the path to the file system and click Next >.

The Scanning dialog box is displayed. When Solaris Web Start is done scanning the file system, the Select Products dialog box is displayed. The products you can install with Solaris Web Start are listed in the windows.

10. On the Select Products dialog box, select the products you want to install and click Next >.

---

**Note** - A description of each product, if available, is displayed when you select it.

---

The Additional Products dialog box is displayed.

11. Did you specify that you want to install additional products from a CD?

- If no, go to the next step.
- If yes, remove the product CD from the tray or caddy, insert the Solaris 8 Software 1 of 2 SPARC Platform Edition CD, and click OK.

The Reading CD dialog box is displayed. The Select Solaris Cluster Configuration dialog box is then displayed:



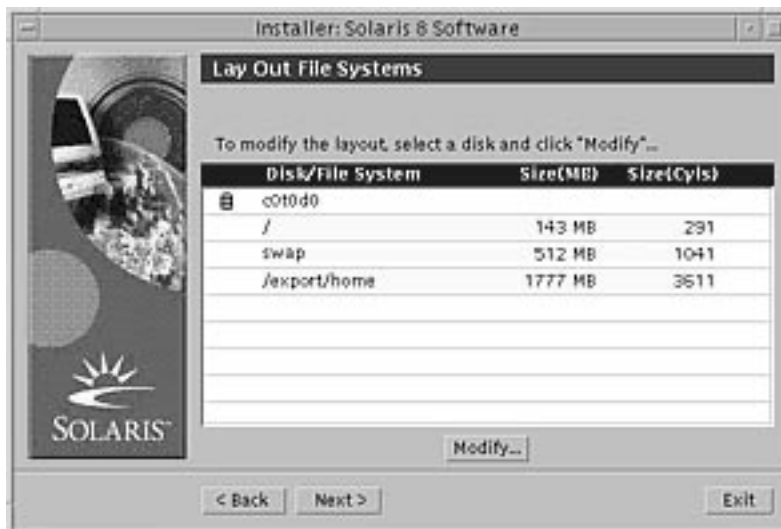
12. Select the Solaris software group you want to install and click Next >.

The Disk Selection dialog box is displayed:



13. Select the disk or disks on which you want to lay out file systems and click **Next >**.

The Gathering Disk Space Requirements dialog box is displayed, followed by the Lay Out File Systems dialog box (with the Modify button):



14. Do you want to modify a file system on a disk?

- If no, click Next > and go to Step 19 on page 50.



- If yes, highlight the disk/file system you want and click Modify.

The Disk dialog box is displayed:



---

**Note** - Although you highlight a particular file system on a disk to modify in this step, you can modify *any* file system shown on the Disk dialog box.

---

#### 15. Do you want to specify the size changes in megabytes or cylinders?

- If cylinders, click Cyl.  
Sizes are displayed in cylinders.
- If megabytes (the default), go to the next step.

---

**Note** - If sizes are displayed in cylinders, click MB to specify the size changes in megabytes.

---

#### 16. Make the changes you want on the Disk dialog box.

---

**Note** - To apply and save changes but continue, click Apply. To erase all changes you haven't yet applied, click Reset. To apply and save changes and dismiss the dialog box, click OK.

---

17. When you're done making changes, click OK.

The Disk dialog box is dismissed.

18. When you're done modifying the layout of file systems, click Next >.

The Ready to Install dialog box is displayed:



19. On the Ready to Install dialog box, click Install Now.

The Installing dialog box is displayed:



Status messages and the name of each package that's added to the Solaris software are displayed in brackets above the top progress bar. The status of the entire installation is shown on the bottom progress bar.

A complete list of Solaris 8 packages is included in Appendix A, Appendix B, and Appendix C.

---

**Note** - Installation can take a while, but the actual time depends on the software group you chose to install, the reallocation of any space if needed, and the speed of the network or local CD-ROM drive you use.

---

When installation of the software on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD is finished, the CD is ejected and the Installation Summary dialog box is displayed:



**20. Do you want to display a log file that describes what was installed on the system?**

- If no, go to Step 23 on page 53.
- If yes, click Details for the product you want.

A new dialog box titled Details is displayed over the Installation Summary dialog box:



**21. When you're done viewing the Details dialog box, click Dismiss.**

The Details dialog box is dismissed.

**22. On the Installation Summary dialog box, click Next >.**

- If a CD is inserted in the CD-ROM drive, it's ejected.
- If additional software is required, a Specify Media dialog box like this is displayed:



- Otherwise, the Reboot dialog box is displayed:



**23. Is additional software required?**

- If no, go to Step 26 on page 54.
- If yes, do you want to install the additional software from a CD or through a network file system?
  - If CD, select CD and click Next >. The Insert CD dialog box is displayed.
  - If network file system, select Network File System and click Next >. A Specify Network File System Path dialog box like this is displayed:



**24. How did you specify you want to install the additional software?**

- If from a CD, insert the CD specified on the Insert CD dialog box and click OK. The Reading CD, Launching Installer, and Extracting dialog boxes are displayed, followed by the Installing dialog box. When installation of the software on the CD is finished, the CD in the CD-ROM drive is ejected and the Installation Summary dialog box is displayed.
- If through a network file system, type the path to the network file system on the Specify Network File System Path dialog box and click Next >. The Launching Installer and Extracting dialog boxes are displayed, followed by the Installing dialog box. When installation of the software through the network is finished, the Installation Summary dialog box is displayed.

**25. Repeat the previous steps starting at Step 22 on page 52.**

**26. On the Reboot dialog box, click Reboot Now.**

The system is rebooted. After a few seconds, a dialog box that prompts you to enter the user name and password for the system is displayed.

**27. Type the user name and password for the system.**

A dialog box that prompts you to select the Solaris desktop you want (either CDE or OpenWindows™) is displayed.

**28. Select the Solaris desktop you want and click OK.**

After a few seconds, the Solaris desktop you selected is displayed.

**29. Do you intend to use Netscape Communicator and OpenWindows on the system on which you just installed Solaris 8?**

- If no, you're done.
- If yes, use a text editor of your choice to open the system's `.cshrc` file, and add an entry to your path environment variable for the directory in which Netscape Communicator is installed.

For example, if Netscape Communicator is installed in the default directory, add `/opt/NSCPcom` to your path environment variable.

---

**Note** - When running Netscape Communicator with OpenWindows, your path environment variable needs to include a pointer to the `NSCPcom` directory to find the binaries.

---

---

## Using Solaris Web Start With an Install Server

You typically install Solaris software with Solaris Web Start by using the system's CD-ROM drive. You can, however, install Solaris over a network instead. Installing Solaris over the network involves setting up an *install server*, a machine on which an image of Solaris software exists. This image can be transferred over the network to other computers.

Setting up an install server and installing Solaris over a network are described in the *Solaris 8 Advanced Installation Guide*.





## Upgrading a System

---

This chapter describes how to upgrade an existing Solaris *SPARC Platform Edition* system.

---

**Note** - Before using Solaris Web Start to update or upgrade a system, refer to the *Solaris 8 (SPARC Platform Edition) Release Notes* and *Solaris 8 Installation Supplement*.

---

---

## Ways to Upgrade a System

When you install a new version of Solaris software on an existing Solaris system, you can choose one of the following ways to upgrade the Solaris operating environment:

- *Upgrade* – This option merges the new version of the Solaris operating environment with the existing files on the system’s disks. It saves as many modifications as possible that you have made to the previous version of the Solaris operating environment.
- *Initial* – This option overwrites the system’s disk with the new version of the Solaris operating environment. You must back up any local modifications that you have made to the previous version of the Solaris operating environment before you begin the installation and restore the local modifications after the installation is finished.

# Frequently Asked Questions About Upgrading

- How do I know I can upgrade my system?

You can upgrade a SPARC system provided there is a slice on the disk that isn't needed to upgrade that disk. `swap` is preferred, but any slice will suffice as long as it is not located in any of the "upgradeable" root slices listed in `/etc/vfstab`. The size of this slice must also exceed or equal the minimum required size, which is dynamic.

The minimum required sizes for the Solaris 8 Installation English SPARC Platform Edition and Solaris 8 Installation Multilingual SPARC Platform Edition CDs are shown in Table 3-1:

TABLE 3-1 Minimum Required Sizes for Slices

	64 Mbytes Memory	128 Mbytes Memory	256 Mbytes or More Memory
Solaris 8 Installation English SPARC Platform Edition CD	256 Mbytes	256 Mbytes	256 Mbytes
Solaris 8 Installation Multilingual SPARC Platform Edition CD	404 Mbytes	340 Mbytes	308 Mbytes

- Can I use the upgrade option on my system?

You can use the upgrade option if you are running Solaris 2.5.1, Solaris 2.6, or Solaris 7 software.

To determine the version of the Solaris operating environment your system is running, type:

```
$ uname -a
```

- Do I have to back out patches before I use the upgrade option?

No, backing out packages is not required.

- What if Solaris Web Start doesn't provide the upgrade option, but the system can be upgraded?

See Chapter 5 for information.

- What if the system's file systems don't have enough space for the upgrade?

You can reallocate disk space with Solaris Web Start if the current file systems don't have enough space for the upgrade. Solaris Web Start attempts to determine how to reallocate the disk space so the upgrade can succeed. If Solaris Web Start cannot determine how to reallocate disk space, you must manually modify the layout of the file systems.
- Can I automatically upgrade to another software group?

No. For example, if you previously installed the End User System Support software group on your system, you cannot use the upgrade option to upgrade to the Developer System Support software group. However, you can always add software to the system during the upgrade that is not part of the currently installed software group.
- Where does Solaris Web Start describe the local modifications that could not be preserved?
  - Before the system reboots: `/a/var/sadm/system/data/upgrade_cleanup`
  - After the system reboots: `/var/sadm/system/data/upgrade_cleanup`
- Where does the installation program place upgrade log files?
  - Before the system reboots: `/a/var/sadm/system/logs/upgrade_log`
  - After the system reboots: `/var/sadm/system/logs/upgrade_log`

---

## Upgrading Your System

### ▼ To Get Started

#### 1. Check the documentation:

- Check the *Solaris 8 (SPARC Platform Edition) Release Notes* and vendor release notes to ensure that the software you use is still supported in the new release.
- Check the *Solaris 8 Sun Hardware Platform Guide* to make sure your hardware is still supported.
- See the documentation that came with your system to make sure your system and devices are still supported by the new release.
- Check for all the available patches you might need. The most recent patch list is provided at <http://sunsolve.sun.com>.
- Check Table 3-2 for known problems. This list is not complete. Always check vendor and third-party software documentation for additional upgrade instructions.

TABLE 3-2 Software That Requires Changes Before Upgrading

Software	Problem Summary
Prestoserve	If you start the upgrade process by shutting down the system using <code>init 0</code> , you can lose data. See the Prestoserve documentation for shutdown instructions.

**2. Determine the language you want to use to upgrade Solaris. If you use the CD labeled:**

- Solaris 8 Installation English SPARC Platform Edition—all prompts, messages, and other upgrade information are displayed in English only.
- Solaris 8 Installation Multilingual SPARC Platform Edition—you can select one of the following languages in which to display all prompts, messages, and other upgrade information:
  - English
  - French
  - German
  - Italian
  - Japanese
  - Korean
  - Spanish
  - Swedish
  - Simplified Chinese
  - Traditional Chinese

**3. Make sure you have *at least* the following CDs:**

- Solaris 8 Installation English SPARC Platform Edition *or* Solaris 8 Installation Multilingual SPARC Platform Edition
- Solaris 8 Software 1 of 2 SPARC Platform Edition *and* Solaris 8 Software 2 of 2 SPARC Platform Edition

- Solaris 8 Languages SPARC Platform Edition (if you use the Multilingual CD)

## ▼ To Back Up a System



---

**Caution** - Back up existing file systems before upgrading the Solaris operating environment. Copying them to removable media (such as tape) safeguards data against loss, damage, or corruption.

---

You can use the Solaris Web Start Specify Backup Media dialog box to back up a system on a local disk, local tape, or remote file system.

If you do not have a backup procedure in place, follow these steps to perform a full backup of file systems on tape. Backing up a system and setting up scheduled backups are described in more detail in *System Administration Guide, Volume I*.

1. **Become superuser.**
2. **Shut down the system:**

```
# init 0
```

3. **Boot the system in single-user mode:**

```
ok boot -s
```

4. **Do you want to check the file systems for consistency?**

---

**Note** - Checking the file systems for consistency ensures you back up uncorrupted data. A power failure, for example, can leave files in an inconsistent state.

---

- If no, go to the next step.
- If yes, use the `fsck` command with the `-m` option:

```
# fsck -m /dev/rdisk/device-name
```

5. **Do you intend to back up the file systems onto a remote tape drive?**
  - If no, go to the next step.

- If yes:
  - a. Add the following entry to the `./rhosts` file of the system that is initiating the backup:

```
host root
```

- b. Verify that the host name added to the `./rhosts` file above is accessible via the local `/etc/inet/hosts` file or available through an NIS or NIS+ name server.

**6. Identify the device name of the tape drive.**

The default tape drive is `/dev/rmt/0`.

**7. Insert a tape that is not write-protected into the tape drive.**

**8. Back up file systems using one of the `ufsdump` commands listed in Table 3-3.**

TABLE 3-3 Full Backup Commands

To make a full backup on a	Use this command
Local cartridge tape drive	<code>ufsdump9ucf /dev/rmt files_to_backup</code>
Remote cartridge tape drive	<code>ufsdump0ucf remote_host:/ files_to_backup</code>

**9. When prompted, remove the tape and replace it with the next volume.**

**10. Label each tape with the volume number, level, date, system name, and file system.**

**11. Press Control-D.**

The system is returned to run level 3.

**12. Verify that you successfully backed up the system:**

```
# ufsrestore -t
```

## ▼ To Plan for Upgrading

1. Use this decision table to determine what to do first.

If you intend to upgrade from a	Then go to
CD-ROM drive attached to your system	The next step.
Remote CD-ROM drive on a network	<i>Solaris 8 Advanced Installation Guide.</i>

2. If your system is attached to a network, gather the following information about the system that contains the Solaris operating environment you intend to upgrade.

Information	Example	To find the information (with Solaris installed), use
Host name	crater	<code>uname -n</code>
Host IP address	129.221.2.1	<code>ypmatch system_name hosts</code> or <code>nismatch system_name hosts.org_dir</code>
Subnet mask	255.255.255.0	<code>more /etc/netmasks</code>
Type of name service (DNS, NIS, or NIS+)	<pre>passwd:  files nis group:   files nis  hosts:   xfn nis [NOTFOUND=return] files networks: nis [NOTFOUND=return] files protocols: nis [NOTFOUND=return] files rpc:     nis [NOTFOUND=return] files ethers:  nis [NOTFOUND=return] files netmasks: nis [NOTFOUND=return] files bootparams: nis [NOTFOUND=return] files publickey: nis [NOTFOUND=return] files  netgroup: nis  automount: files nis aliases:   files nis  services: files nis sendmailvars: files</pre>	<code>cat /etc/nsswitch.conf</code>
Domain name	lbloom.West.Arp.COM	<code>domainname</code>

Information	Example	To find the information (with Solaris installed), use
Host name of name server	thor75	<code>ypwhich</code>
Host IP address of name server	129.153.75.20	<code>ypmatch nameserver_name hosts</code> or <code>nismatch nameserver_name hosts.org_dir</code>

## ▼ To Set Up for Upgrading

1. Do you intend to install the Solaris software through a `tip(1)` line?
  - If no, go to the next step.
  - If yes, make sure your window display is at least 80 columns wide and 24 rows long.

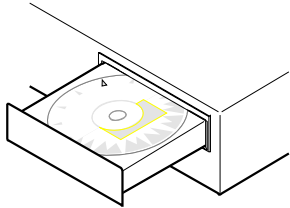
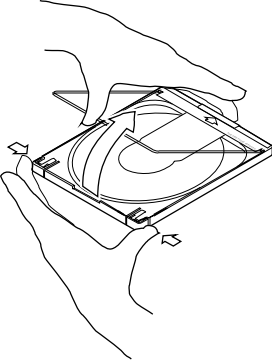
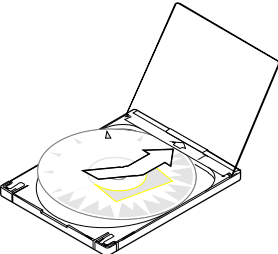
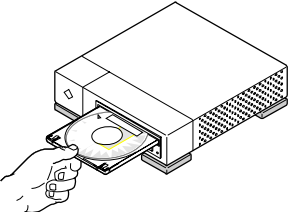
---

**Note** - To determine the current dimensions of your `tip` window, use the `stty(1)` command.

---

2. Insert the CD labeled **Solaris 8 Installation English SPARC Platform Edition** or **Solaris 8 Installation Multilingual SPARC Platform Edition** into the system's CD-ROM drive.



CD-ROM Drive - Tray Version	CD-ROM Drive - Caddy Version
<p>1. Press the eject button on the front panel of the CD-ROM drive. A tray slides out.</p>  <p>2. Insert the CD labeled Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition (logo facing up) into the tray.</p> <p>3. Push the tray into the CD-ROM drive.</p>	<p>1. To open the caddy, pinch the corners while lifting the lid at the center.</p>  <p>2. Insert the CD labeled Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition (logo facing up) and close the caddy.</p>  <p>3. With the arrow on the caddy pointing toward the CD-ROM drive, insert the caddy.</p> 

3. **Boot the system by displaying the ok prompt (by typing `halt` as superuser or by pressing both the Stop and A keys at the same time), and then type:**  
`boot cdrom`

- If you're using the CD labeled Solaris 8 Installation English SPARC Platform Edition, information similar to this is displayed:

```
Boot device: /sbus/espdma@e,8400000/esp@e,8800000/sd@6,0:f File and args:
SunOS Release 5.8 Version Generic 32-bit
Copyright 1983-2000 Sun Microsystems, Inc. All rights reserved.
Configuring /dev and /devices
Using RPC Bootparams for network configuration information.
Stand by...
Solaris Web Start 3.0 installer

English has been selected as the language in which to perform the install.
Starting the Web Start 3.0 Solaris installer

Solaris installer is searching the system's hard disks for a
location to place the Solaris installer software.

Your system appears to be upgradeable.
Do you want to do a Initial Install or Upgrade?

1) Initial Install
2) Upgrade
Please Enter 1 or 2 >
```

- If you're using the CD labeled Solaris 8 Installation Multilingual SPARC Platform Edition, information similar to this is displayed:

```
Boot device: /sbus/espdma@e,8400000/esp@e,8800000/sd@6,0:f File and args:
SunOS Release 5.8 Version Generic 32-bit
Copyright 1983-2000 Sun Microsystems, Inc. All rights reserved.
Configuring /dev and /devices
Using RPC Bootparams for network configuration information.
Stand by...
Solaris Web Start 3.0 installer

The Solaris Installer can be run in English, or any of the following languages:

1) English           6) Japanese
2) German           7) Korean
3) Spanish          8) Swedish
4) French           9) Simplified_Chinese
5) Italian          10) Traditional_Chinese
Select the language you want to use to run the installer:
```

#### 4. Which CD are you using?

- If the Solaris 8 Installation English SPARC Platform Edition CD, go to the next step.

- If the Solaris 8 Installation Multilingual SPARC Platform Edition CD, type the number you want to select the language in which to display prompts, messages, and other installation information.

Information similar to this is displayed:

```
language_you_selected has been selected as the language in which to perform the install.
Starting the Web Start 3.0 Solaris installer

Solaris installer is searching the system's hard disks for a
location to place the Solaris installer software.

Your system appears to be upgradeable.
Do you want to do a Initial Install or Upgrade?

1) Initial Install
2) Upgrade
Please Enter 1 or 2 >
```

**5. At the prompt, type 2 for upgrade and press Return.**

Solaris Web Start searches the disk for swap slices that meet the minimum size requirements. Information similar to this is then displayed:

```
Since swap slices are usually erased at each reboot,
the Solaris Installer would prefer to place the Solaris install image
on a slice labeled swap.

The Installer would like to use the disk slice c0t0d0s1, labeled as swap.

WARNING: All information will be lost.

Can the Solaris Installer use this slice? [y,n,?]
```

**6. Do you want to use the disk slice shown on your screen?**

- If yes, type **y** and go to Step 14 on page 70.
- If no, type **n** and press Return.

Solaris Web Start searches the disk for slices that meet the minimum size requirements and are not located in any of the “upgradeable” root slices listed in `/etc/vfstab`, as described in Table 3-1. Information similar to this is displayed:

- ```
1) c0t0d0s1
2) Find Another
```

```
"Find Another" allows the Solaris Installer to find other
slices that may meet the criteria found in the Solaris
install guide.
Please make a selection. >
```

### 7. Do you want to use the disk slice shown on your screen?

- If yes, type 1 and go to Step 14 on page 70.
- If no, type 2 and press Return.

Solaris Web Start continues looking for another disk slice. If another disk slice is not found, the original swap shown on your screen is used by default. If another disk slice is found, information similar to this is displayed:

```
The following slices were found to meet the
criteria in the Solaris Install Guide.
```

```
WARNING: If one of the listed slices is chosen
to be used by the Solaris Installer
all information on the slice will be
erased
```

- ```
1) c0t0d0s7 last mounted on /export/home
2) None
```

```
"None" will skip these disk slices and present
you with a listing of all disks on the system
```

```
Please make a selection from the choices above >
```

### 8. Do you want to use one of the slices shown or None?

---

**Note** - If you select None and a disk identifier, you can no longer upgrade the system. You must perform an initial installation.

---

- If you want to use one of the slices shown, type the number of the slice you want and go to Step 14 on page 70.
- If None, type 2 and press Return.

Information similar to this is displayed:

```
The default root disk is /dev/dsk/c0t0d0.  
The Solaris installer needs to format  
/dev/dsk/c0t0d0 to install Solaris.
```

```
WARNING: ALL INFORMATION ON THE DISK WILL BE ERASED!
```

```
Do you want to format /dev/dsk/c0t0d0? [y,n,?,q]
```

**9. At the prompt, type *y* and press Return.**

Information similar to this is displayed:

```
NOTE: The swap size cannot be changed during filesystem layout.
```

```
Enter a swap slice size between 478MB and 2028MB, default = 512MB [?]
```

**10. At the prompt, press Return to enter the default swap slice size, or type the swap slice size you want and press Return.**

Information similar to this is displayed:

```
The Installer prefers that the swap slice is at the beginning of the  
disk. This will allow the most flexible filesystem partitioning later in the installation.
```

```
Can the swap slice start at the beginning of the disk [y,n,?,q]
```

**11. Do you want to place the swap space at the beginning of the disk (and thus improve the flexibility of partitioning the file systems and the efficiency with which the disk is accessed)?**

- If yes, type *y* and go to Step 14 on page 70.
- If no, type *n* and press Return.

Information similar to this is displayed:

```
WARNING: Placing the swap slice at a cylinder location other than cylinder 0
requires expert knowledge about disk layout. This choice may affect
disk layout choices later in the installation.
```

```
Enter a starting cylinder between 0 and 2043, default = 0 [?]
```

**12. Press Return to enter the default starting cylinder (0), or type the starting cylinder you want and press Return.**

Information similar to this is displayed:

```
You have selected the following to be used by the Solaris installer:
```

```
Disk Slice  : /dev/dsk/c0t0d0
Size        : 512 MB
Start Cyl.  : 0
```

```
WARNING: ALL INFORMATION ON THE DISK WILL BE ERASED!
```

```
Is this OK [y,n,?,q]
```

**13. At the prompt, type y.**

**14. Press Return.**

Information similar to this is displayed:

```
The Solaris installer will use disk slice, /dev/dsk/c0t0d0s1.
After files are copied, the system will automatically reboot, and
installation will continue.
Please Wait...
```

```
Copying mini-root to local disk...done.
```

```
Copying platform specific files...done.
```

```
Preparing to reboot and continue installation.
Syncing file systems... 10 done
rebooting...
Resetting ...
```

```
Sun Ultra 1 SBus (UltraSPARC 143MHz), Keyboard Present
OpenBoot 3.5, 64 MB memory installed, Serial #9999999.
```

(continued)

```
Ethernet address 8:0:20:8d:35:a5, Host ID: 808d35a5.
```

```
Rebooting with command: boot /sbus@1f,0/espdma@e,8400000/esp@e,8800000/sd@0,0:b  
Boot device: /sbus@1f,0/espdma@e,8400000/esp@e,8800000/sd@0,0:b File and args:  
SunOS Release 5.8 Version Generic 32-bit  
Copyright 1983-2000 Sun Microsystems, Inc. All rights reserved.  
Configuring /dev and /devices  
Using RPC Bootparams for network configuration information.  
Stand by...
```

The Welcome screen is displayed:



## ▼ To Configure Your System for Upgrading

1. On the Welcome screen, click Next >.

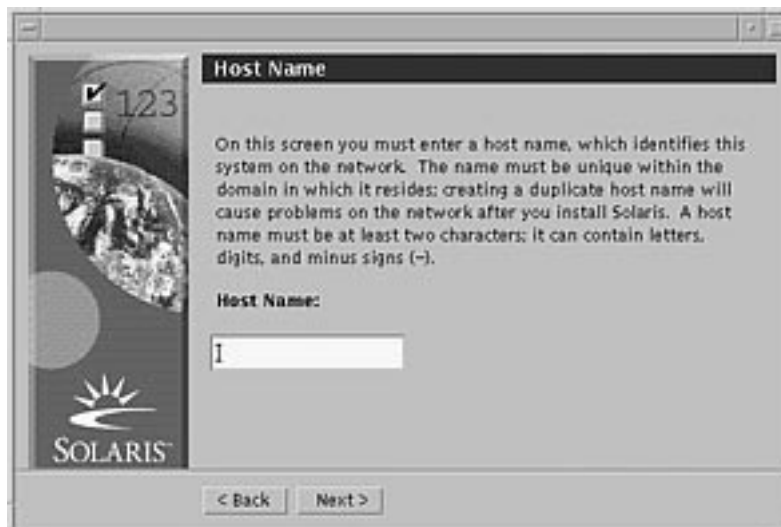
Solaris Web Start attempts to gather information about your system. The Network Connectivity dialog box is then displayed:



## 2. Is the system networked?

- If no, select Non-networked and click Next >.

The Host Name dialog box is displayed:



- If yes, select Networked and click Next >.

The DHCP dialog box is displayed:





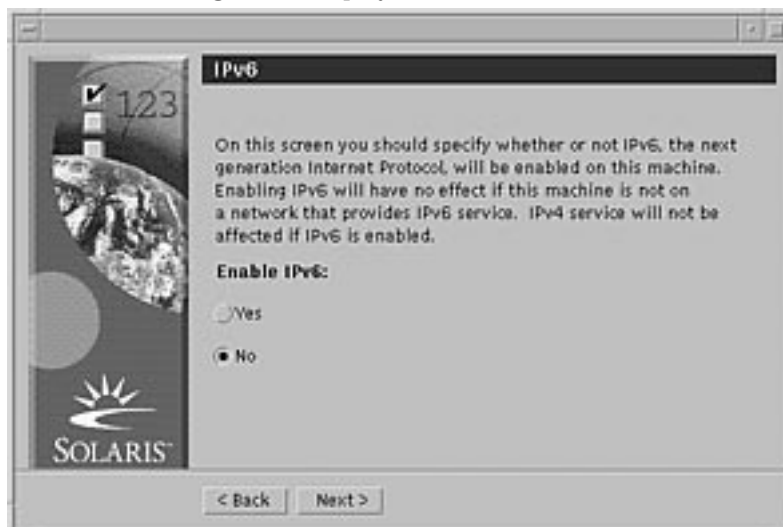
**3. Did you select Networked in Step 2 on page 72?**

- If no, go to Step 6 on page 74.
- If yes, go to the next step.

**4. Do you want to use DHCP for the network interface configuration?**

- If no, select No, click Next >, and go to Step 6 on page 74.
- If yes, select Yes and click Next >.

The IPv6 dialog box is displayed:

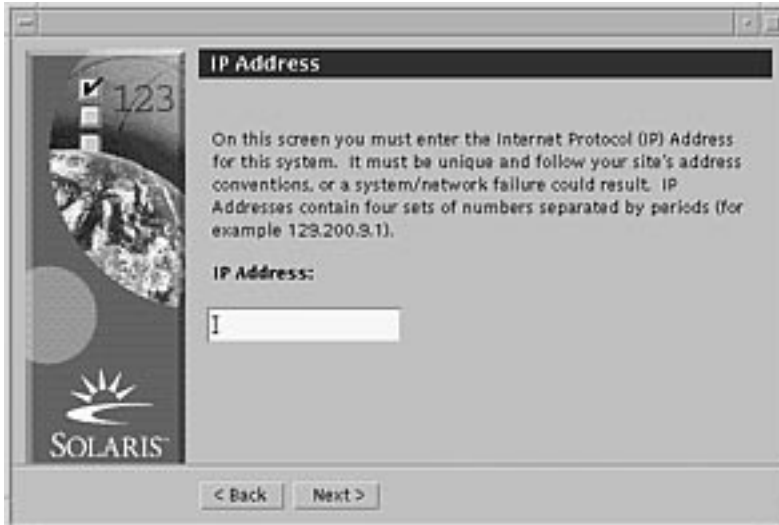


**5. Do you want to enable IPv6?**

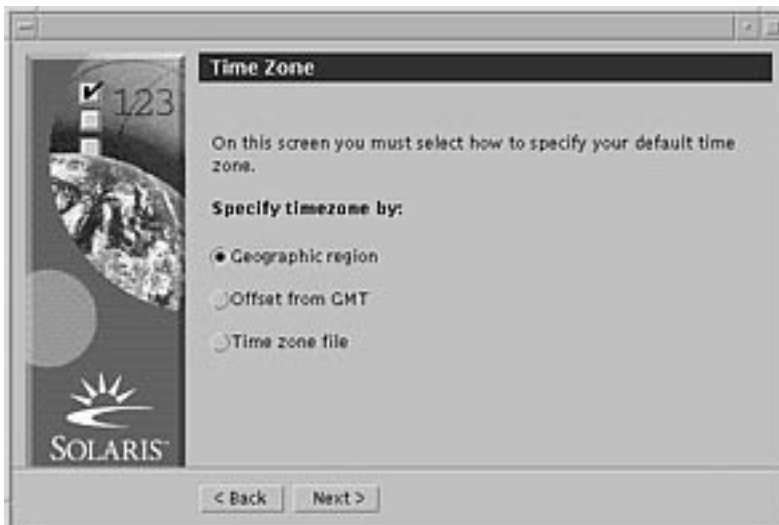
- If no, select No, click Next >, and go to Step 10 on page 76.
- If yes, select Yes, click Next >, and go to Step 10 on page 76.

**6. On the Host Name dialog box, type the host name you want and click Next >.**

If you selected Networked on the Network Connectivity dialog box shown in Step 2 on page 72, the IP Address dialog box is displayed:



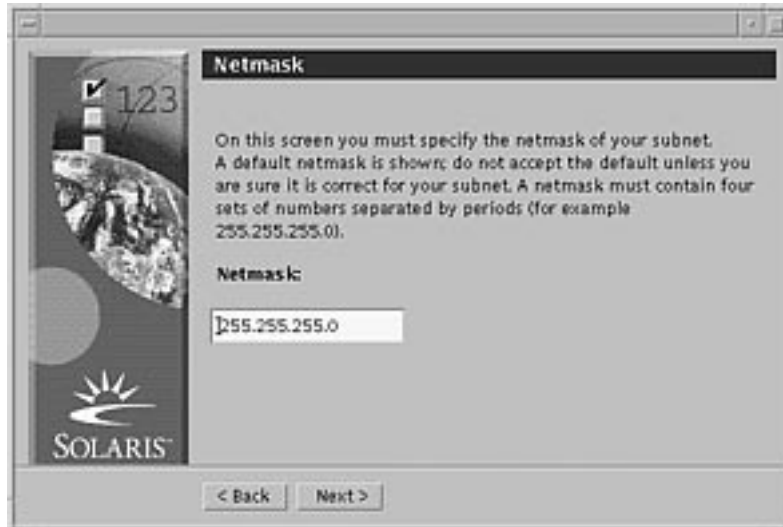
If you selected Non-networked on the Network Connectivity dialog box shown in Step 2 on page 72, the Time Zone dialog box is displayed:



**7. Is your system networked (that is, did you select Networked on the Network Connectivity dialog box)?**

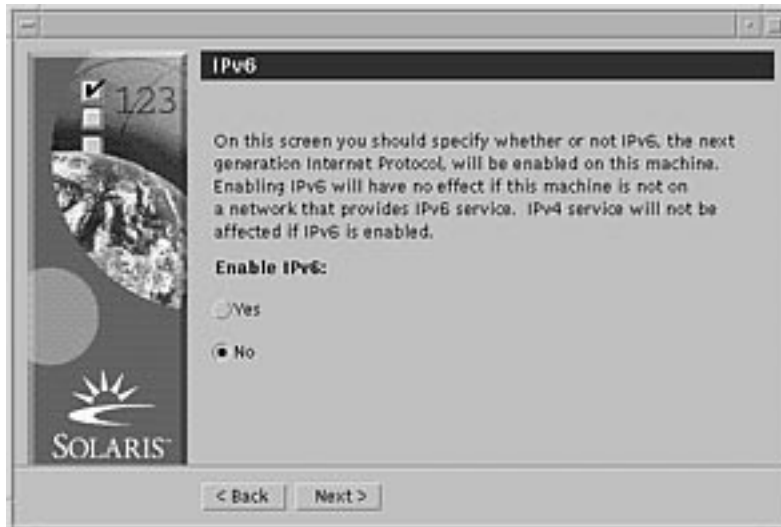
- If no, go to Step 14 on page 80.
- If yes, did you specify that you want DHCP used for the network interface configuration (that is, did you select Yes on the DHCP dialog box)?
  - If yes, go to Step 10 on page 76.
  - If no, on the IP Address dialog box, type the IP address of your networked system and click Next >.

The Netmask dialog box is displayed:



**8. Type the netmask you want (or leave the default netmask) and click Next >.**

The IPv6 dialog box is displayed:



**9. Do you want to enable IPv6?**

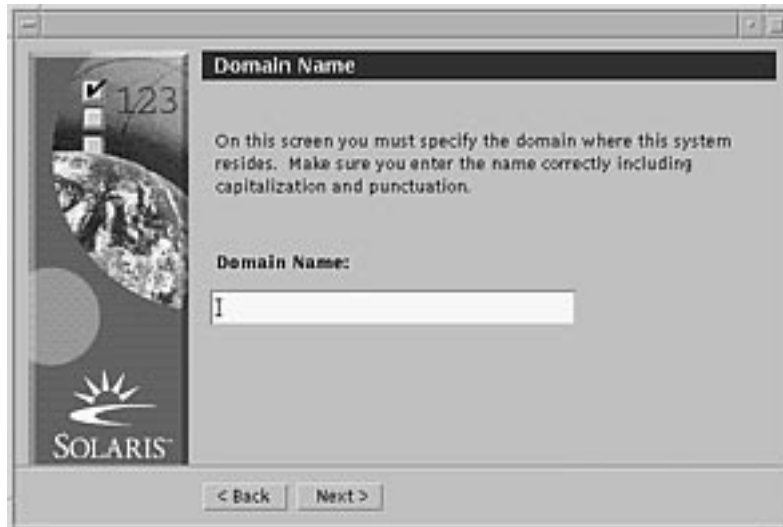
- If no, select No and click Next >.
- If yes, select Yes and click Next >.

The Name Service dialog box is displayed:



**10. Select the name service the system will use, or None if you aren't using a name service, and click Next >.**

If you selected NIS+, NIS, or DNS, the Domain Name dialog box is displayed:



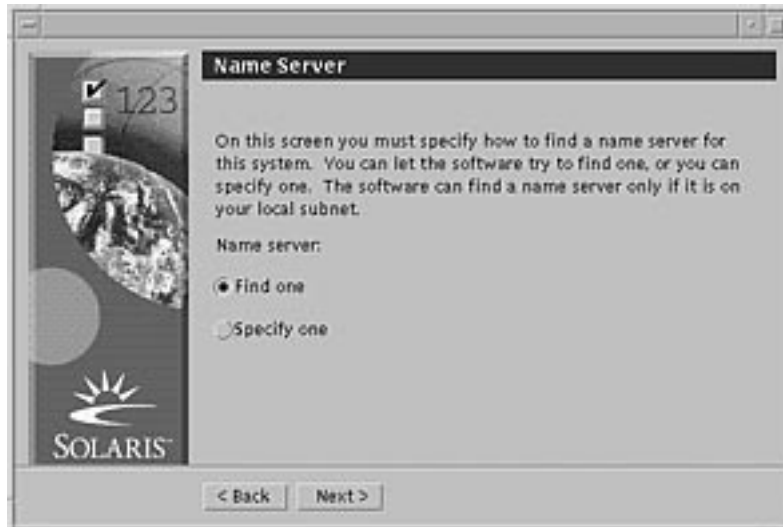
If you selected None, the Time Zone dialog box is displayed:



**11. Did you select None in the preceding step?**

- If yes, go to Step 14 on page 80.
- If no, type the name of the domain in which the system is located and click Next >.

If you selected NIS+ or NIS, the Name Server dialog box is displayed:



If you selected DNS, the DNS Server Address dialog box is displayed:



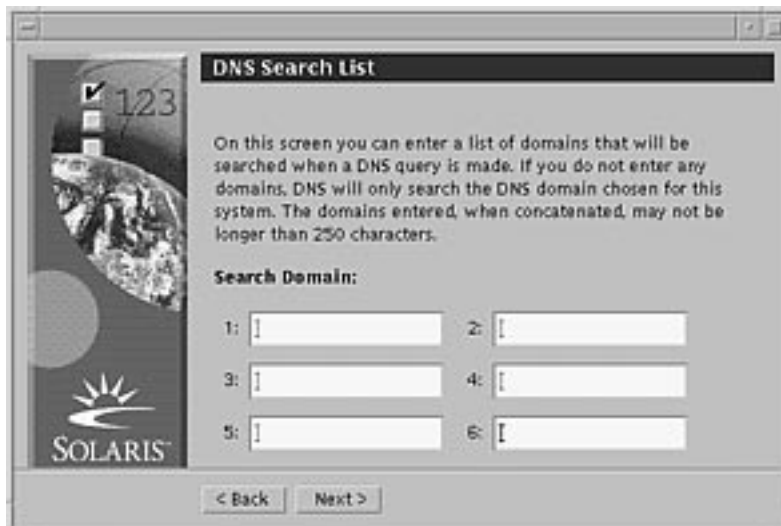
## 12. Are you using NIS+/NIS or DNS?

- If NIS+ or NIS, select “Find one” or “Specify one” and click Next >.
- If you selected “Find one,” the Time Zone dialog box is displayed.
- If you selected “Specify one,” the Name Server Information dialog box is displayed:



- If DNS, type the IP address of the DNS server or servers you want and click Next >.

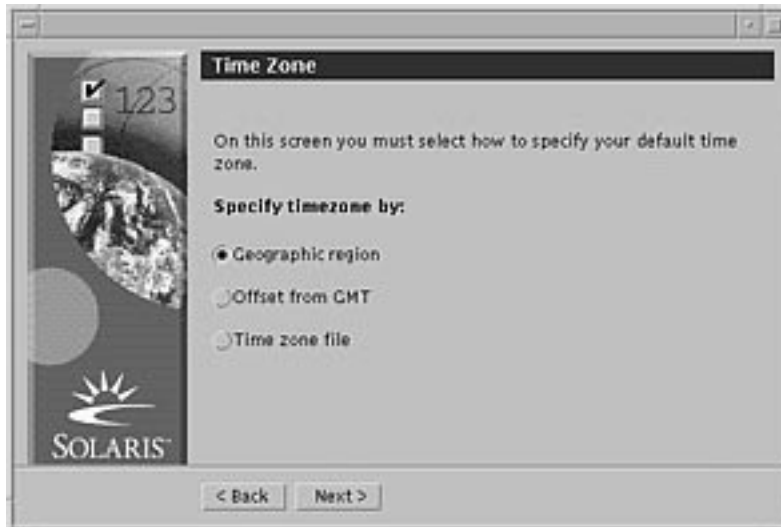
The DNS Search List dialog box is displayed:



### 13. Are you using NIS+ /NIS or DNS?

- If NIS+ or NIS, on the Name Server Information dialog box, type the host name and IP address of your name server and click Next >.
- If DNS, type the name of the domain or domains you want searched when a DNS query is made, if any, and click Next >.

The Time Zone dialog box is displayed:



**14. On the Time Zone dialog box, select how you want to set your default time zone and click Next >.**

The Geographic Region, Offset From GMT, or Time Zone File dialog box is displayed, depending on the method you chose.

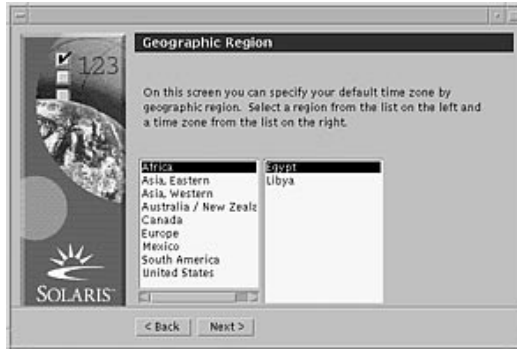
**15. Use this decision table to determine what to do next:**



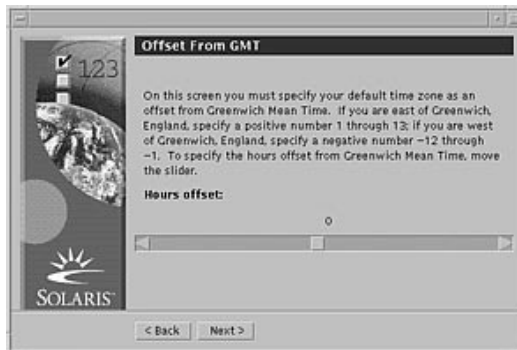
---

**If you chose**

**Then**



Select the region you want in the left window and the time zone in the right, and click Next >.



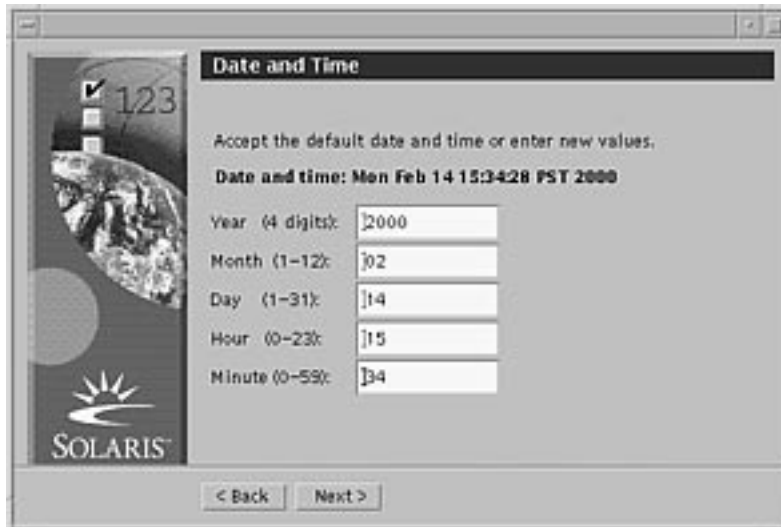
Drag the slider toward the left (for west of Greenwich, England) or right (for east of Greenwich, England), and click Next >.



Specify the name of any file in /usr/share/lib/zoneinfo, or click Select to choose a file in this directory, and click Next >.

---

The Date and Time dialog box is displayed:



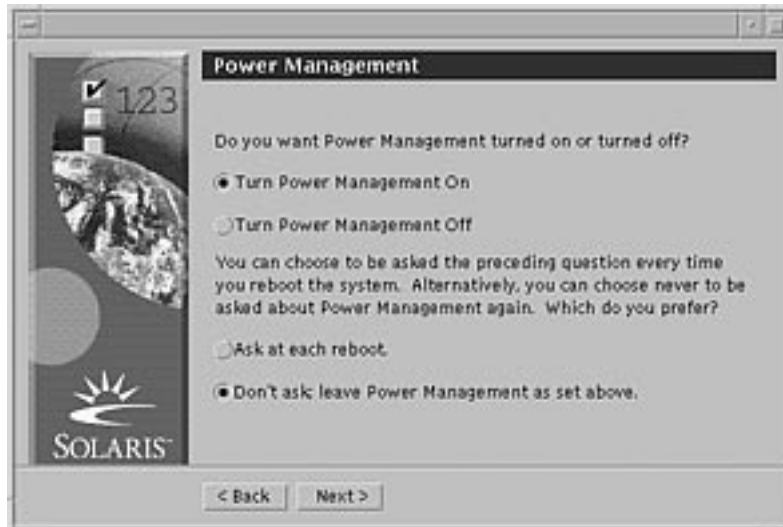
**16. If necessary, correct the date and time, and click Next >.**

The Root Password dialog box is displayed:



**17. Type the alphanumeric string you want to use for the superuser password in both fields, and click Next >.**

The Power Management dialog box is displayed:



18. Choose whether you want Power Management turned on or off and whether you want to be asked to turn it on or off every time you reboot, and click Next.

---

**Note** - Power Management software automatically saves the state of a system and turns it off after it is idle for 30 minutes. When you install the Solaris software on a system that complies with Version 2 of the U.S. Environmental Protection Agency's Energy Star guidelines—a sun4u SPARC system, for example—the Power Management software is installed by default, and you are prompted after subsequently rebooting to enable or disable the Power Management software.

---

The Proxy Server Configuration dialog box is displayed:



**19. Does the system go through a proxy server to access the Internet?**

- If no, select Direct connection to the Internet and click Next >.
- If yes, select Use Proxy Configuration Below, specify the host name and port of the proxy server for the system, and click Next >.

The Confirm Information dialog box is displayed:



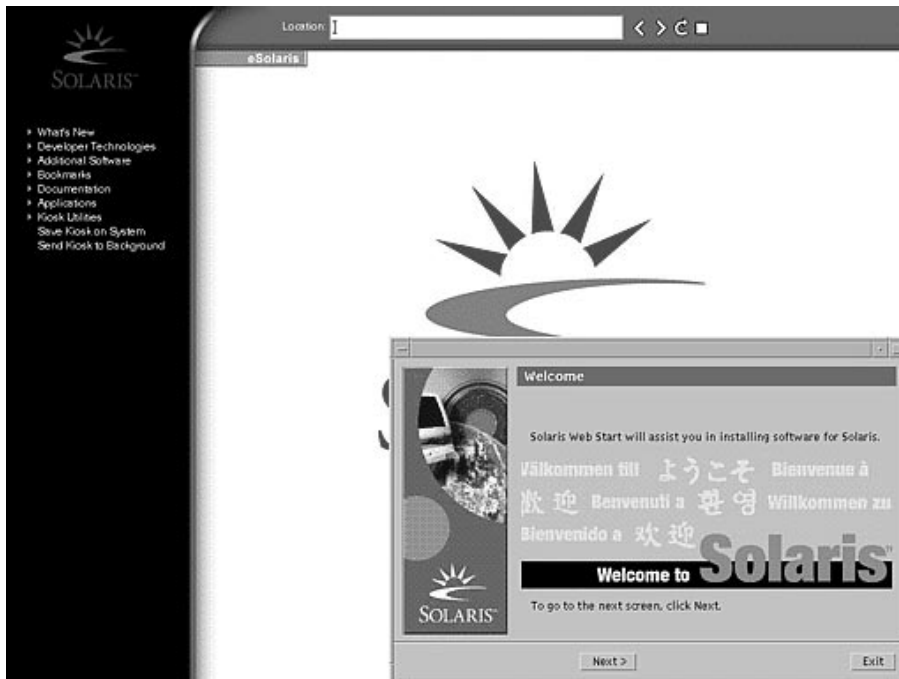
**20. Is the information on the Confirm Information dialog box correct?**

- If no, click < Back until you display the dialog box you need to correct the information.
- If yes, click Confirm.

The message:

Please wait while the system is configured with your settings...

is displayed in the Confirm Information dialog box. The Extracting dialog box is displayed momentarily. Then the Solaris Web Start Installation Kiosk and Welcome to Solaris dialog box are displayed:




---

**Note** - In some cases, the Kiosk might obscure a dialog box. To display an obscured dialog box, on the Kiosk menu, click Send Kiosk to Background.

---

## ▼ To Upgrade Solaris

1. On the Welcome to Solaris dialog box, click Next >.

The Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition CD is ejected and the Insert CD dialog box is displayed:



2. **Remove the CD from the tray or caddy, and insert the CD that contains the upgraded Solaris 8 software.**
3. **Push the tray in or insert the caddy and click OK on the Insert CD dialog box.**  
The Reading CD and Initializing dialog boxes are displayed. Then, the Select Upgrade or Initial Install dialog box is displayed:



4. **Which type of upgrade do you want to perform?**
  - If initial, select Initial Install and click Next >.

- If upgrade, select Upgrade Install and click Next >.

If you chose Initial Install, the Initializing dialog box is displayed, followed by the Select Type of Install dialog box:



If you chose Upgrade Install and there is more than one version of the Solaris operating environment already installed on the system, the Select Version To Upgrade dialog box is displayed:



If you chose Upgrade Install and there is only one version of the Solaris operating environment on the system, the Specify Backup Media dialog box is displayed:



**5. How many versions of Solaris are already installed on the system?**

- If none, go to Step 7 on page 89.
- If only one version of Solaris is installed on the system, go to the next step.
- If more than one version of Solaris is installed on the system, on the Select Version To Upgrade dialog box, select the version you want to upgrade and click Next >.

The Specify Backup Media dialog box is displayed.

**6. On the Specify Backup Media dialog box, select the media type you want (by pulling down the Media Type pop-up menu, selecting Local Disk, Local Tape, or Remote Filesystem, and specifying the path name) and click Next >.**

The Testing Upgrade Profile dialog box is displayed.

---

**Note** - At this point, Solaris Web Start tests the system you're upgrading to ensure that enough disk space is available for the upgraded Solaris software. If there is not enough disk space available, Solaris Web Start displays a message suggesting that you perform an initial upgrade.

---

The Select Type of Install dialog box is then displayed:





**7. Which type of installation do you want to perform?**

- If Default Install, select Default Install, click Next >, and go to Step 16 on page 94.
- If Custom Install, select Custom Install and click Next >.

The Select Software Localizations dialog box is displayed:



**8. Select the geographic regions and localizations you want to install in addition to English and click Next >.**

The Select System Locale dialog box is displayed:



9. Select the initial locale you want to be used after the upgraded Solaris software is installed on the system and click Next >.

---

**Note** - English (United States, en\_US) is selected by default.

---

The Select Products dialog box is displayed:



10. Select the product or products you want to install in addition to the upgraded Solaris 8 software and click Next >.

---

**Note** - A description of each product, if available, is displayed when you select it.

---

The Additional Products dialog box is displayed:



11. Do you want to install additional third-party or other software products (that can be installed with Solaris Web Start)?

- If no, select None, click Next >, and go to Step 16 on page 94.
- If yes, select Product CD, Kiosk Download, or Local or Network File System, and click Next >.

If you selected Product CD, the Solaris 8 Software 1 of 2 SPARC Platform Edition CD is ejected and the Insert CD dialog box is displayed.

If you selected Kiosk Download, the Scanning dialog box is displayed. When Solaris Web Start is done scanning the Kiosk download area (`/webstart/kiosk/download`), the Select Products dialog box is displayed. The products you can install with Solaris Web Start are listed in the windows.

If you selected Local or Network File System, the Specify Network File System Path dialog box is displayed:



**12. Do you want to install additional third-party or other software products (that can be installed with Solaris Web Start)?**

- If no, select None, click Next >, and go to Step 16 on page 94.
- If yes, select Product CD, Kiosk Download, or Local or Network File System, and click Next >.

If you selected Product CD, the Solaris 8 Software 1 of 2 SPARC Platform Edition CD is ejected and the Insert CD dialog box is displayed.

If you selected Kiosk Download, the Scanning dialog box is displayed. When Solaris Web Start is done scanning the Kiosk download area (`/webstart/kiosk/download`), the Select Products dialog box is displayed. The products you can install with Solaris Web Start are listed in the windows.

If you selected Local or Network File System, the Specify Network File System Path dialog box is displayed:



13. On the Select Products dialog box, select the products you want to install and click Next >.

---

**Note** - A description of each product, if available, is displayed when you select it.

---

The Additional Products dialog box is displayed.

14. Do you want to install additional third-party or other software products (that can be installed with Solaris Web Start)?

- If yes, select Product CD, Kiosk Download, or Local or Network File System, click Next >, and repeat the preceding steps starting at Step 12 on page 92.
- If no, select None and click Next >.

If you previously inserted and scanned an additional products CD, the CD is ejected and an Insert CD dialog box prompts you to insert the Solaris 8 Software 1 of 2 SPARC Platform Edition CD.

15. Do you want to install additional third-party or other software products (that can be installed with Solaris Web Start)?

- If yes, select Product CD, Kiosk Download, or Local or Network File System, click Next >, and repeat the preceding steps starting at Step 12 on page 92.
- If no, select None and click Next >.

If you previously inserted and scanned an additional products CD, the CD is ejected and an Insert CD dialog box prompts you to insert the Solaris 8 Software 1 of 2 SPARC Platform Edition CD.

**16. On the Ready to Install dialog box, click Install Now.**

The Installing dialog box is displayed.

Status messages and the name of each package that's added to the Solaris software are displayed in brackets above the top progress bar. The status of the entire installation is shown on the bottom progress bar.

A complete list of Solaris 8 packages is included in Appendix A, Appendix B, and Appendix C.

---

**Note** - Upgrading can take a while, but the actual time depends on the software group you chose to install, the reallocation of any space if needed, and the speed of the network or local CD-ROM drive you use.

---

When installation of the software on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD is finished, the CD is ejected and the Installation Summary dialog box is displayed:



**17. Do you want to display a log file that describes what was installed on the system?**

- If no, go to Step 20 on page 96.
- If yes, click Details for the product you want.

A new dialog box titled Details is displayed over the Installation Summary dialog box:



**18. When you're done viewing the Details dialog box, click Dismiss.**

The Details dialog box is dismissed.

**19. On the Installation Summary dialog box, click Next >.**

If a CD is inserted in the CD-ROM drive, it's ejected.

If additional software is required, a Specify Media dialog box like this is displayed:



Otherwise, the Reboot dialog box is displayed:



**20. Is additional software required?**

- If no, go to Step 23 on page 97.
- If yes, do you want to install the additional software from a CD or through a network file system?
  - If CD, select CD and click Next >. The Insert CD dialog box is displayed.
  - If network file system, select Network File System and click Next >. A Specify Network File System Path dialog box like this is displayed:





**21. How did you specify you want to install the additional software?**

- If from a CD, insert the CD specified on the Insert CD dialog box and click OK. The Reading CD, Launching Installer, and Extracting dialog boxes are displayed, followed by the Installing dialog box. When installation of the software on the CD is finished, the CD in the CD-ROM drive is ejected and the Installation Summary dialog box is displayed.
- If through a network file system, type the path to the network file system on the Specify Network File System Path dialog box and click Next >. The Launching Installer and Extracting dialog boxes are displayed, followed by the Installing dialog box. When installation of the software through the network is finished, the Installation Summary dialog box is displayed.

**22. Repeat the previous steps starting at Step 19 on page 95.**

**23. On the Reboot dialog box, click Reboot Now.**

The system is rebooted. After a few seconds, a dialog box that prompts you to enter the user name and password for the system is displayed.

**24. Type the user name and password for the system.**

A dialog box that prompts you to select the Solaris desktop you want (either CDE or OpenWindows) is displayed.

**25. Select the Solaris desktop you want and click OK.**

After a few seconds, the Solaris desktop you selected is displayed.

**26. Do you intend to use Netscape Communicator and OpenWindows on the system on which you just installed Solaris 8?**

- If no, you're done.
- If yes, use a text editor of your choice to open the system's `.cshrc` file, and add an entry to your path environment variable for the directory in which Netscape Communicator is installed.

For example, if Netscape Communicator is installed in the default directory, add `/opt/NSCPcom` to your path environment variable.

---

**Note** - When running Netscape Communicator with OpenWindows, your path environment variable needs to include a pointer to the `NSCPcom` directory to find the binaries.

---

---

**Note** - You can see upgrade log files:

- Before the system reboots at: `/a/var/sadm/system/logs/upgrade_log`
  - After the system reboots at: `/var/sadm/system/logs/upgrade_log`
- 

## ▼ To Clean Up After Upgrading

After you finish upgrading a system, you might need to clean it up. When you upgrade, Solaris Web Start merges local software modifications of the existing system with the new Solaris software; however, in some cases, merging is not possible.

1. **See the contents of the following file to determine whether you need to fix local modifications that Solaris Web Start could not preserve:**

`/a/var/sadm/system/data/upgrade_cleanup`



---

**Caution** - Check all the contents of `upgrade_cleanup` carefully. Your system might not boot if you don't fix the unpreserved local modifications.

---

2. **If necessary, fix any unpreserved local modifications.**
3. **Reboot the system:**

```
# reboot
```

## Adding and Removing Software After Installing Solaris 8

---

This chapter describes how to customize the Solaris software on your system after you install or upgrade to Solaris 8.

You can add and remove software in the following ways:

---

<b>You can use</b>	<b>To add, remove, or change</b>
Solaris Web Start	Products (on the Solaris 8 Software CDs, or Solaris 8 Software Companion, Solaris 8 Languages SPARC Platform Edition, or Solaris 8 Documentation SPARC/Intel Platform Edition CDs, for example), software groups, and additional software <i>except</i> individual packages of software
Solaris Product Registry	All software installed using Solaris Web Start 3.0 or the Solaris package management commands ( <code>pkgadd</code> , for example)

---

You can use	To add, remove, or change
Admintool	Products, groups, and packages of software (on the Solaris 8 Software CDs, or Solaris 8 Software Companion, Solaris 8 Languages SPARC Platform Edition, or Solaris 8 Documentation SPARC/Intel Platform Edition CDs, for example)
The <code>pkgadd(1M)</code> and <code>pkgrm(1M)</code> commands	Individual packages of software

---

**Note** - You can use Admintool to add or remove software on a local system only (that is, the system on which you are running Admintool). Admintool is not intended for use in a distributed environment.

---



---

**Note** - *System Administration Guide, Volume I* contains information about adding and removing software packages on client systems in a variety of computing environments.

---

## Adding Software With Solaris Web Start

This section describes how to use Solaris Web Start to add software to a system on which you've installed the Solaris operating environment.

### ▼ To Add Software With Solaris Web Start

---

**Note** - This procedure assumes that the system is running Volume Manager. If you are not using Volume Manager to manage diskettes and CDs, refer to *System Administration Guide, Volume I* for detailed information about managing removable media without Volume Manager.

---

1. **Log in to the installed or upgraded system.**
2. **Locate the net image of the software you want to install or insert the CD that contains the software you want to add into the CD-ROM drive attached to the system.**

If you inserted a CD, Volume Manager automatically mounts the CD.

---

**Note** - If you insert the Solaris 8 Languages SPARC Platform Edition CD, Solaris Web Start starts automatically.

---

**3. Find the directory that contains the software you want to add.**

Table 4-1 lists some of the directories on the Solaris 8 CDs that contain the Solaris Web Start Installer and software you can add with it.

**TABLE 4-1** Location of Software You Can Add

CD	Software	Directory
Solaris 8 Software 2 of 2 SPARC Platform Edition	Components of Developer System Support, Entire Distribution, or Entire Distribution Plus OEM Support software groups	Top-level directory (volume identifier) of the CD Example: sol_8_sparc_2
	<b>Note</b> - The Solaris Web Start installer on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD only installs those components in these software groups that you skipped when you initially installed the Solaris 8 operating environment on the system. You cannot upgrade to another software group after installing or upgrading the Solaris 8 operating environment.	
Solaris 8 Software 2 of 2 SPARC Platform Edition	Unbundled and preliminary evaluation software	Solaris_8/EA in the top-level directory (volume identifier) of the CD Example: sol_8_sparc_2/ Solaris_8/EA
Solaris 8 Software 2 of 2 SPARC Platform Edition	Individual Solaris 8 packages that make up the Developer System Support, Entire Distribution, and Entire Distribution Plus OEM Support software groups, which you can install individually with pkgadd(1M)	Solaris_8/Product in the top-level directory (volume identifier) of the CD Example: sol_8_sparc_2/ Solaris_8/Product

TABLE 4-1 Location of Software You Can Add (continued)

CD	Software	Directory
Solaris 8 Software 2 of 2 SPARC Platform Edition	Source code for some of the third-party public domain software included with Solaris 8	Solaris_8/Tools in the top-level directory (volume identifier) of the CD  Example: sol_8_sparc_2/Solaris_8/Tools  <b>Note</b> - The installer in this directory is named install_source.
Solaris 8 Languages SPARC Platform Edition  <b>Note</b> - Solaris Web Start starts automatically when you insert this CD in a CD-ROM drive.	Localized interface software and documentation, including Simplified and Traditional Chinese, French, German, Italian, Japanese, Korean, Spanish, and Swedish  <b>Note</b> - The Solaris 8 Software CDs contain the interface that enables you to input, display, and print text in a target language, including multibyte locales.	Top-level directory (volume identifier) of the CD  Example: sol_8_lang_sparc
Solaris 8 Documentation English SPARC/Intel Platform Edition	Solaris AnswerBook2 Server, Solaris 8 Collections, Release Notes, or other documentation	Top-level directory (volume identifier) of the CD  Example: sol_8_doc

**4. Double click Installer or installer.**

An Installer window is displayed, followed by a Solaris Web Start dialog box.

**5. Follow the directions on the screen to install the software.**

**6. When you're done, click Exit.**

Solaris Web Start exits.

**7. Did you use a CD to install the software?**

- If no, stop, you're done.

- If yes, are you using the Common Desktop Environment (CDE) or OpenWindows?
    - If CDE, on the File Manager window for the CD, select File and then Eject.
    - If OpenWindows, on the File Manager window for the CD, click Eject Disk.
- The CD is ejected.

---

## Adding and Removing Software With the Product Registry

### Purpose

The Solaris Product Registry is a tool to help you manage installed software. Once Solaris is installed, Product Registry provides a list of all the software that was installed using Solaris Web Start 3.0 or the Solaris package management commands (`pkgadd`, for example).

The Solaris Product Registry enables you to:

- View a list of installed and registered software and some software attributes
- Find and launch an installer
- Install additional software products
- Uninstall software

### How the Product Registry Works

The Solaris Product Registry main window, shown in Figure 4-1, consists of three areas of information:

- Installed, registered, and removed software
- Standard attributes of the currently selected software
- Customized attributes and attributes internal to the registered software

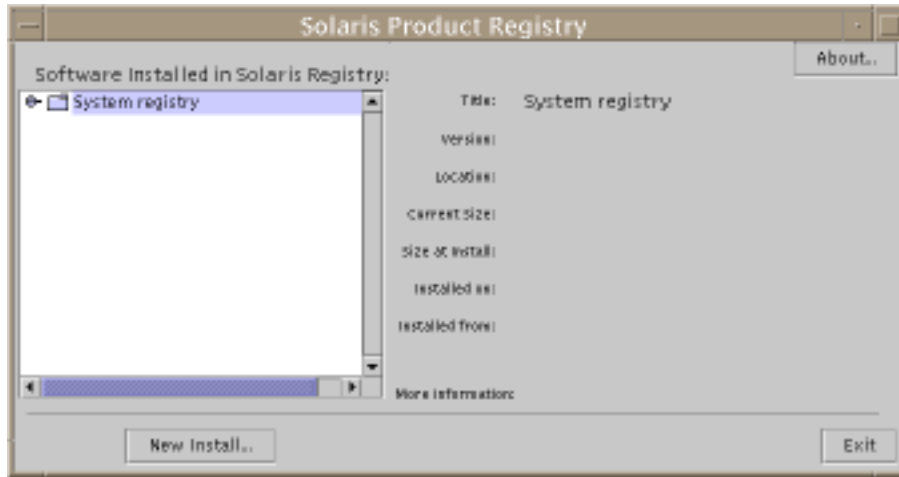


Figure 4-1 Solaris Product Registry Window

To view the items in the Product Registry, click the turner control to the left of the folder icon next to “System registry.” Notice that the turner control changes from pointing to the right to pointing down.

You can expand or collapse any item in the Registry except items that have a text file icon to its left.

“Solaris 8” under “Software Installed in Solaris Registry,” as shown in Figure 4-2, always contains two items: the configuration software group you chose when installing Solaris and “additional system software.”

Software groups that can be displayed include Core, End User System Support, Developer System Support, Entire Distribution, or Entire Distribution Plus OEM Support.

The “additional system software” item contains Solaris products that are not part of the software group you chose. Additionally, “unclassified software” contains any package that you installed using the `pkgadd` command that is not a Solaris product or part of the software group.



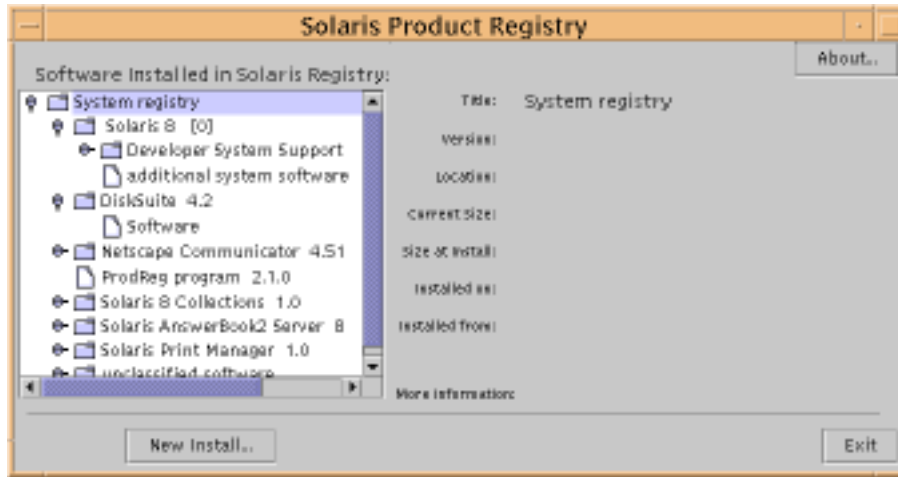


Figure 4-2 Solaris Product Registry Expanded

Product Registry attributes appear above the “More Information” box. For product items installed with Solaris Web Start, the Product Registry contains values for at least Title, Version, Location, and Installed on. Items in an expanded list under a product or software group inherit the version information of the product. You can click an item to view its attribute values.

Sometimes an item appears in the Product Registry window but the corresponding software has been removed with the `pkgrm` command.

In this case, the message “Missing files in one or more components” is displayed after the “Installed from” attribute (see Figure 4-3). You can either re-install the software by using the `pkgadd` command or you can remove it by using the Product Registry.

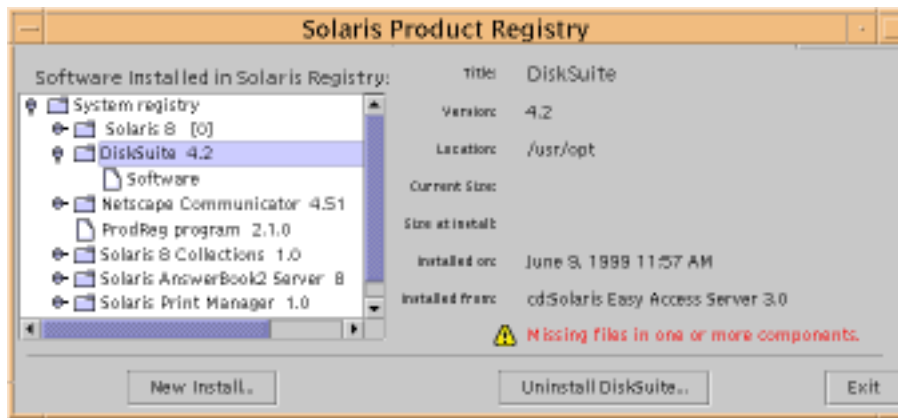


Figure 4-3 Missing Files Message in the Solaris Product Registry

## ▼ To List Information About All Installed Products

1. Do you want to list information about all installed software products on your system?

- If no, stop, you're done.
- If yes, go to the next step.

2. If the Solaris Product Registry is not already running, type:

```
/usr/bin/prodreg
```

---

**Note** - In most cases, you do not need to specify the path `/usr/bin/`.

---

The Solaris Product Registry window, which contains the System registry, is displayed.

3. To view the list of installed and registered software, click the turner control to its left.

4. Do you want to view software attributes?

- If no, go to the next step.
- If yes, select the software you want by clicking its name under "Software installed in Solaris Registry."

The Product Registry displays attribute information for the selected software.

## ▼ To Check the Integrity of an Installed Product

1. Do you want to check the integrity of software products installed on the system?

- If no, stop, you're done.
- If yes, go to the next step.

2. If the Solaris Product Registry is not already running, type:

```
/usr/bin/prodreg
```

---

**Note** - In most cases, you do not need to specify the path `/usr/bin/`.

---

The Solaris Product Registry window, which contains the System registry, is displayed.

3. To view the list of installed and registered software, click the turner control to its left.
4. Select the software you want by clicking its name in the window titled “Software installed in Solaris Registry.”  
If all or part of the product was removed with the `pkgrm` command, the message “Missing files in one or more components” is displayed after the “Installed from” attribute.

## ▼ To Install Software With the Product Registry

1. Do you want to add an additional software product or products to the Solaris 8 software you already installed?
  - If no, stop, you’re done.
  - If yes, go to the next step.
2. Log in to the installed or upgraded system.
3. Locate the net image of the software you want to install or insert the CD that contains the software you want to add to the system into the CD-ROM drive attached to the system.  
If you inserted a CD, Volume Manager automatically mounts the CD.
4. If the Solaris Product Registry is not already running, type:  
`/usr/bin/prodreg`

---

**Note** - In most cases, you do not need to specify the path `/usr/bin/`.

---

The Solaris Product Registry window, which contains the System registry, is displayed.

5. To view the list of installed and registered software, click the turner control to the left of the System registry.
6. Click the New Install button at the bottom of the Solaris Product Registry window.  
The Product Registry displays the Select Installer dialog box, which initially points to the `/cdrom` directory.

---

**Note** - You can install software from local media or over a network.

---

7. When you find the installer you want, click its name in the Files box.

---

**Note** - The Solaris Web Start installer is named `Installer` or `installer`.

---

8. Click OK.  
The installer you selected is launched.
9. Follow the directions displayed by the installer you selected to install the software.

## ▼ To Uninstall Products

1. Do you want to uninstall a software product or products installed on the system?
  - If no, stop, you're done.
  - If yes, go to the next step.

2. If the Solaris Product Registry is not already running, type:

`/usr/bin/prodreg`

---

**Note** - In most cases, you do not need to specify the path `/usr/bin/`.

---

The Solaris Product Registry window, which contains the System registry, is displayed.

3. To view the list of installed and registered software, click the turner control to its left.
4. Select the software you want to uninstall by clicking its name in the window titled "Software installed in Solaris Registry."
5. Read the software attributes to make sure this is the software you want to uninstall.
6. Click the Uninstall *software\_product\_name* button at the bottom of the Solaris Product Registry window.

The software product you selected is uninstalled.

---

# Adding and Removing Packages With Admintool

This section describes how to add and remove software packages through the Admintool graphical user interface.

## ▼ To Add Packages With Admintool

---

**Note** - Unless you are a member of the UNIX<sup>®</sup> system administrator group (group 14), you must become superuser on your system to add or remove software packages with Admintool.

---

1. **Log in to the installed or upgraded system and become superuser:**

```
# su
```

2. **Insert the CD that contains the software you want to add to the system into the CD-ROM drive attached to the system.**

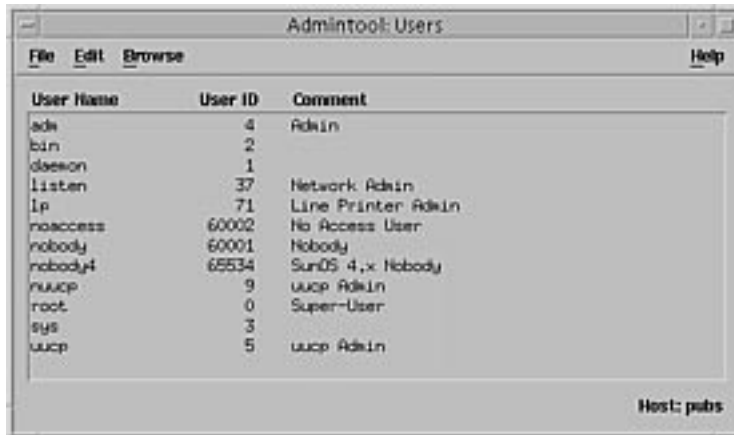
Volume Manager automatically mounts the CD.

3. **Note the directory path to the software on the CD you want to add.**

4. **Start Admintool:**

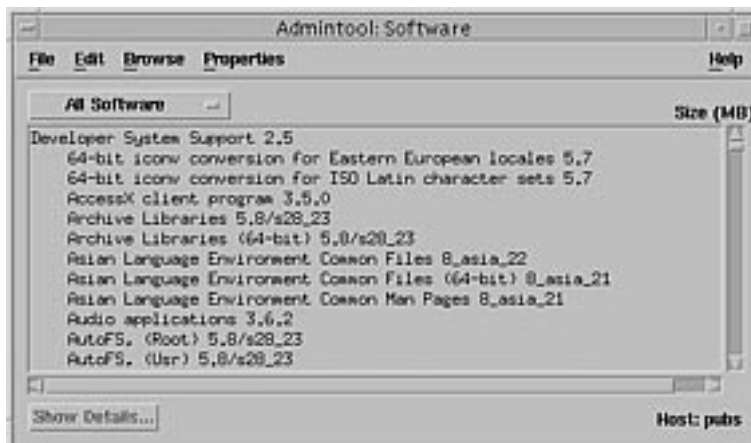
```
# admintool &
```

The Users window is displayed:



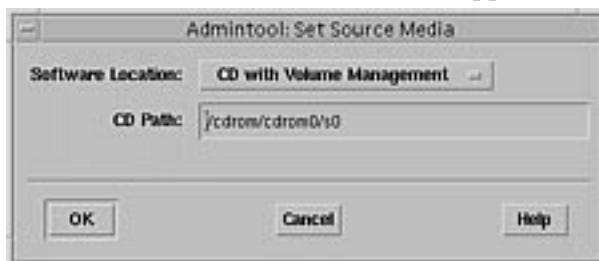
5. From the Browse menu, choose Software.

The Software window is displayed:



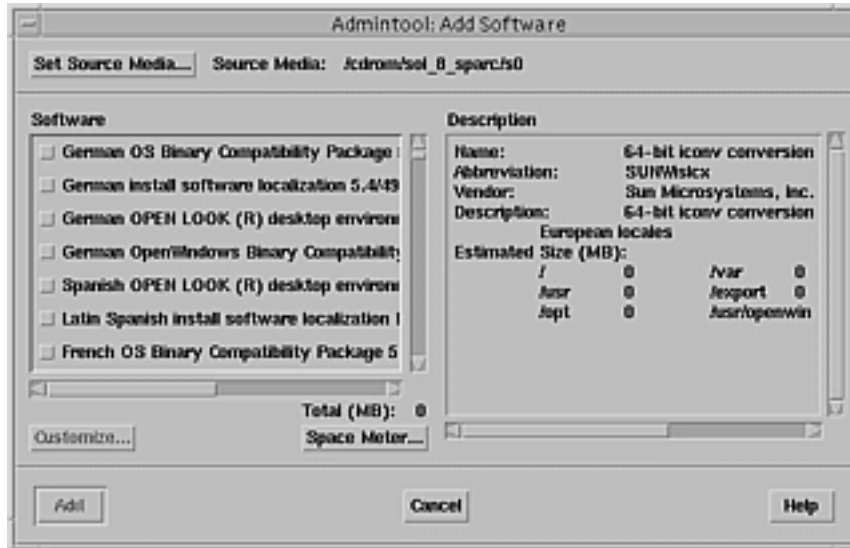
6. From the Edit menu, choose Add.

7. Did the Set Source Media window appear?

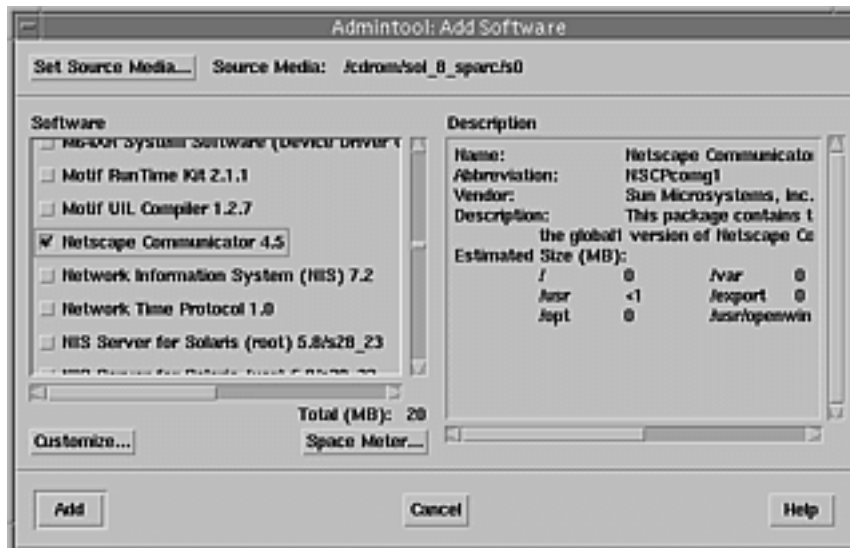


- If no, go to the next step.
- If yes, and if it isn't already displayed in the CD Path box, specify the directory path to the CD you noted in Step 3 on page 109 and click OK.

The Add Software window is displayed:



8. In the Software portion of the window, select the software you want to install on the local system:



## 9. Click Add.

The Add Software terminal window appears, in which a message is displayed as each component of the software is added:



```
Admintool: Add Software
/usr/dt/appconfig/netscape/lib/locale/C/methelp/netscape/shared/netIcon.gif
/usr/dt/appconfig/netscape/lib/locale/C/methelp/netscape/trouble/help.hp
/usr/dt/appconfig/netscape/lib/locale/C/methelp/netscape/trouble/trouble.htm
/usr/dt/appconfig/netscape/lib/locale/C/methelp/netwatch.gif
/usr/dt/appconfig/netscape/lib/locale/C/methelp/picsfail.htm
/usr/dt/appconfig/netscape/lib/locale/C/methelp/picsfail.jar
/usr/dt/appconfig/netscape/lib/locale/C/netscape/about
/usr/dt/appconfig/netscape/lib/locale/C/netscape/bookmark.htm
/usr/dt/appconfig/netscape/lib/locale/C/netscape/license
/usr/dt/appconfig/netscape/lib/locale/C/netscape/splash
/usr/dt/appconfig/netscape/libjsd.so
/usr/dt/appconfig/netscape/moveemail
/usr/dt/appconfig/netscape/moveemail-src/COPYING
/usr/dt/appconfig/netscape/moveemail-src/README
/usr/dt/appconfig/netscape/moveemail-src/moveemail.c
/usr/dt/appconfig/netscape/netscape
/usr/dt/appconfig/netscape/plugins/cpPack1.jar
/usr/dt/appconfig/netscape/plugins/libnullplugin.so
/usr/dt/appconfig/netscape/registry
/usr/dt/appconfig/netscape/spell/netscape.dic
/usr/dt/appconfig/netscape/spell/pen4s124.dat
/usr/dt/appconfig/netscape/talkback/XTalkback.ad
/usr/dt/appconfig/netscape/talkback/master.ini
/usr/dt/appconfig/netscape/talkback/talkback
/usr/dt/appconfig/netscape/talkback/talkback.so
/usr/dt/appconfig/netscape/vreg
/usr/dt/bin/netscape <symbolic link>
[ verifying class <none> ]

Installation of <NSCPCongl> was successful.
press <Return> to continue
```

When all the components that make up the software you selected are added, the following message is displayed:

```
Installation of <name_of_software> was successful. press <Return> to continue
```

## 10. Press Return.

The Add Software terminal window is dismissed, and the Software window is displayed so you can continue to add software.

## 11. When you're done adding software, from the File menu, choose Exit.

# ▼ To Remove Packages With Admintool

---

**Note** - Unless you are a member of the UNIX system administrator group (group 14), you must become superuser on your system to add or remove software packages with Admintool.

---



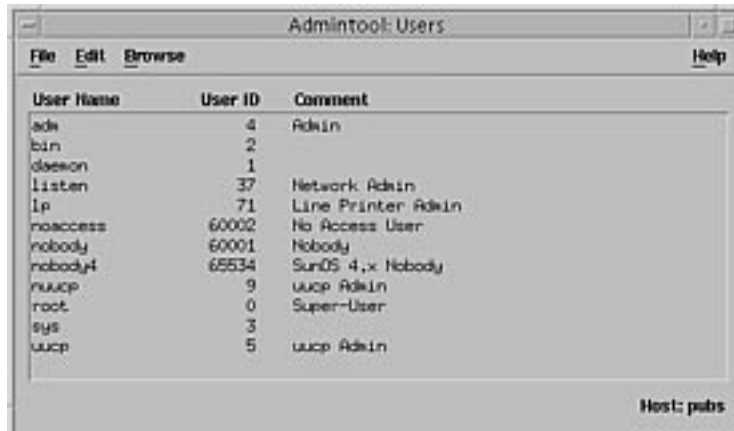
1. Log in to the installed or updated system and become superuser:

```
# su
```

2. Start Admintool:

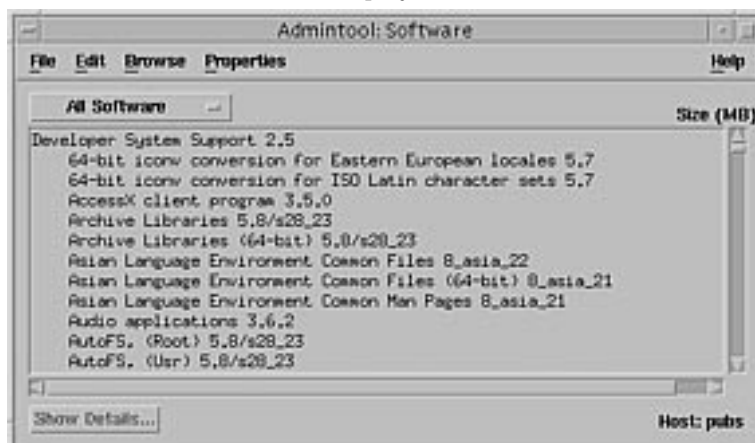
```
# admintool &
```

The Users window is displayed:



3. From the Browse menu, choose Software.

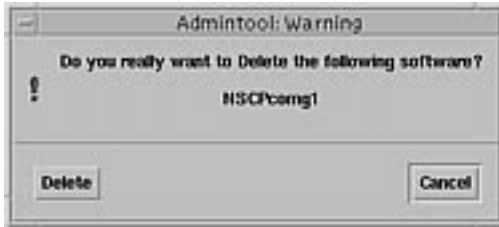
The Software window is displayed:



4. Select the software you want to delete by highlighting it.

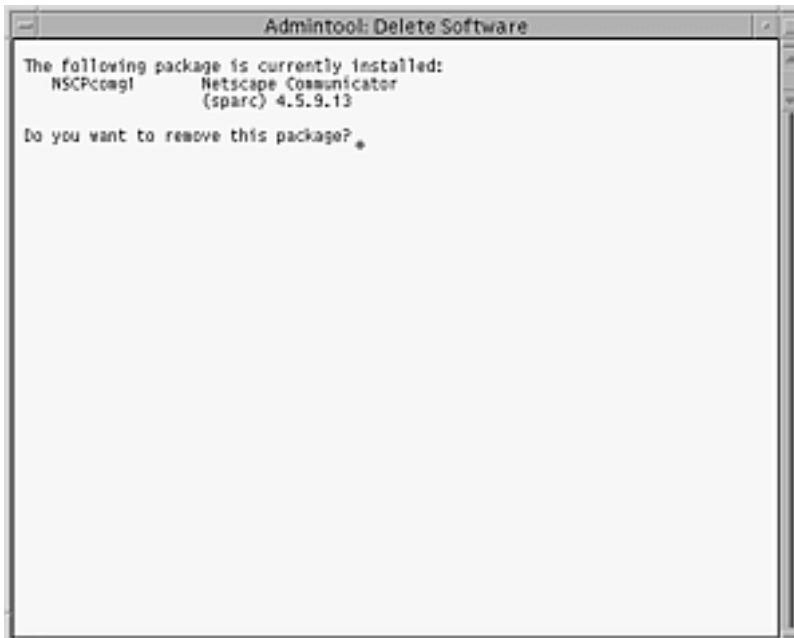
**5. From the Edit menu, choose Delete.**

The Warning dialog box is displayed, and you are prompted to confirm that you want to delete the software:



**6. On the Warning dialog box, click Delete.**

The Delete Software terminal window is displayed with messages that are generated as the software is being deleted:



You are prompted to confirm that you want to delete each software package you selected.

**7. At each prompt, type `y`, `n`, or `q`.**

A message is displayed as each component of the software is deleted. When all the components that make up the software you selected are deleted, the following message is displayed:

```
Removal of <name_of_software> was successful. press <Return> to continue
```

**8. Press Return.**

The Delete Software terminal window is dismissed, and the Software window is displayed so you can select more software to delete.

**9. When you're done deleting software, from the File menu, choose Exit.**

---

## Adding and Removing Packages With `pkgadd` and `pkgrm`

### ▼ To Add Packages With `pkgadd`

**1. Log in to the installed or updated system and become superuser:**

```
# su
```

**2. Insert the CD that contains the software you want to add to the system into the CD-ROM drive attached to the system.**

Volume Manager automatically mounts the CD.

**3. Note the directory path to the software on the CD you want to add.**

**4. Add one or more packages to the system:**

```
# /usr/sbin/pkgadd -d device_name pkgid
```

where:

*device\_name* Is the directory path to the CD that contains the software you want to add to the installed system.

*pkgid* Is the name of the software package to be added to the installed system. For example, SUNWaudio.

5. When you're done, use the `pkgchk(1M)` command to verify that the package is installed correctly:

```
# /usr/sbin/pkgchk -v pkgid
```

If no errors are found, `pkgchk` returns a list of installed files. If an error is found, `pkgchk` returns a message that describes the problem.

## Example: Installing Software From a Mounted CD

The following example shows how to use `pkgadd` to install the `SUNWaudio` package from a mounted Solaris 8 Software 1 of 2 SPARC Platform Edition CD.

---

**Note** - The name of this product is Solaris 8 but code and path or package path names might use `Solaris_2.8` or `SunOS_5.8`. Always follow the code or path as it is written.

---

```
# /usr/sbin/pkgadd -d /cdrom/sol_8_sparc/Solaris_8/Product SUNWaudio.  
.  
.  
Installation of <SUNWaudio> was successful.  
# pkgchk -v SUNWaudio  
/usr  
/usr/bin  
/usr/bin/audioconvert  
/usr/bin/audioplay  
/usr/bin/audiorecord  
#
```

## ▼ To Remove Packages With `pkgrm`

1. Log in to the installed or updated system and become superuser:

```
# su
```

2. Remove one or more packages from the system:

```
# /usr/sbin/pkgrm pkgid
```

Where `pkgid` is the name of the software package you want to remove from the installed system. For example, `SUNWaudio`.

3. At each prompt, type *y*, *n*, or *q* to specify that you want to remove the package, not remove the package, or quit.
4. When you're done, use the `pkgchk(1M)` command to verify that the package was removed correctly:

```
# /usr/sbin/pkgchk -v pkgid
```

If the package was not removed correctly, `pkgchk` returns a warning message.

## Example: Removing Software From a System

The following example shows how to use `pkgrm` to remove the `SUNWaudio` package from a system.

```
# /usr/sbin/pkgrm SUNWaudio
The following package is currently installed:
  SUNWaudio      Audio applications
                  (SPARC) 3.6.20,REV=1.2000.11.7
Do you want to remove this package? y
.
.
.
Removal of <SUNWaudio> was successful.
# pkgchk -v SUNWaudio
WARNING: no pathnames were associated with <SUNWaudio>
#
```



# Troubleshooting

---

This chapter provides a list of specific error messages and generic problems that you might encounter when installing the Solaris software. Some apply specifically to Solaris Web Start, some do not. These problems usually pertain to booting a system and upgrading Solaris software—the two main sections in this chapter.

---

## Booting a System

### Error Messages

```
le0: No carrier - transceiver cable problem
```

---

<b>Problem</b>	<b>How to fix the problem</b>
----------------	-------------------------------

The system is not connected to the network.
---

If this is a non-networked system, ignore this message. If this is a networked system, make sure the Ethernet cabling is attached securely.
---

```
The file just loaded does not appear to be executable
```

<b>Problem</b>	<b>How to fix the problem</b>
The system cannot find the proper media for booting.	<p>Verify that the system has been set up properly to install over the network from an install server. For example, make sure you specified the correct platform group for the system when you set it up.</p> <p>Also, if you did not copy the Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition CD, make sure the Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition CD on the install server is mounted and accessible.</p>

```
boot: cannot open /kernel/unix
```

<b>Problem</b>	<b>How to fix the problem</b>
This error occurs if you override the boot file location by explicitly setting it to <code>/kernel/unix</code> . In releases of Solaris after 2.6, the kernel does not reside in <code>/kernel/unix</code> , but in <code>/platform/arch/kernel/unix</code> .	Reset the boot file in the PROM to “ ” (blank).

```
Can't boot from file/device
```

<b>Problem</b>	<b>How to fix the problem</b>
The installation program can't find the Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition CD in the system's CD-ROM drive.	<p>Make sure:</p> <ul style="list-style-type: none"> <li>■ The CD-ROM drive is installed properly and is turned on</li> <li>■ The Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition CD is inserted into the CD-ROM drive</li> </ul>

```
WARNING: clock gained xxx days -- CHECK AND RESET DATE!
```

<b>Problem</b>	<b>How to fix the problem</b>
This is an informational message.	Ignore the message and continue with the installation.



---

# Upgrading Solaris Software

This section describes possible solutions for problems you might encounter when upgrading Solaris software.

## Error Messages

No upgradeable disks
----------------------

Problem	How to fix the problem
Bug ID: 1191792 A swap entry in the <code>/etc/vfstab</code> file is causing the upgrade to fail.	Comment out the following lines in the <code>/etc/vfstab</code> file: <ul style="list-style-type: none"><li>■ All swap files and slices on disks not being upgraded</li><li>■ Swap files that are no longer present</li><li>■ Any unused swap slices</li></ul>

## General Problems

Problem	How to fix the problem
The upgrade fails because the installation program could not mount metadevices on the system.	Metadevices cannot be upgraded automatically. Instructions are included in “Upgrading to Other Solaris Versions” in the <i>Solstice DiskSuite 4.2 Reference Guide</i> .

Problem	How to fix the problem
<p>Bug ID: 1170953</p> <p>The upgrade option is not presented even though there is a version of Solaris software that can be upgraded on the system.</p>	
<p><i>Reason 1:</i> The <code>/var/sadm</code> directory is a symbolic link or it is mounted from another file system.</p>	<p><i>Solution for Reason 1:</i> Move the <code>/var/sadm</code> directory into the root (<code>/</code>) or <code>/var</code> file system.</p>
<p><i>Reason 2:</i> The <code>/var/sadm/softinfo/INST_RELEASE</code> file is missing.</p>	<p><i>Solution for Reason 2:</i> Create a new <code>INST_RELEASE</code> file by using the following template:</p> <pre>OS=Solaris VERSION=2.x REV=0</pre> <p>where <code>x</code> is the version of Solaris software on the system.</p>

Problem	How to fix the problem
<p>The upgrade fails for reasons beyond your control, such as a power failure or a network connection failure, and the system is left in an unbootable state.</p>	<ol style="list-style-type: none"> <li>1. Reboot the system from the Solaris 8 Installation English SPARC Platform Edition or Solaris 8 Installation Multilingual SPARC Platform Edition CD, or from the network.</li> <li>2. Choose the upgrade option for installation.</li> </ol> <p>Solaris Web Start determines if the system has been partially upgraded and will continue the upgrade where it left off.</p>

Problem	How to fix the problem
<p>The upgrade fails because the installation program could not mount a file system. During an upgrade, the installation program attempts to mount all the file systems listed in the system's <code>/etc/vfstab</code> file on the root (<code>/</code>) file system being upgraded. If the installation program cannot mount a file system, it fails and exits.</p>	<p>Make sure all file systems in the system's <code>/etc/vfstab</code> file can be mounted. Comment out any file systems in the <code>/etc/vfstab</code> file that can't be mounted or that might cause the problem, so the installation program doesn't try to mount them during the upgrade.</p> <hr/> <p><b>Note</b> - Any system-based file systems that contain software to be upgraded (for example, <code>/usr</code>) cannot be commented out.</p>

---

**Problem****How to fix the problem**

---

There is not enough space on the system for the upgrade. See if you can fix this problem without using auto-layout to rearrange space, by checking the following reasons for the space problem:

*Reason 1:* Since the automounter is not active during an upgrade, the installation program installs any package's files or directories that are symbolic links to automounted file systems. If a symbolic link is overwritten, the upgrade might fail because of insufficient disk space.

*Solution for Reason 1:* During the upgrade, delete software packages that will create files or directories on the automounted file systems. Then the installation program does not overwrite the symbolic link with the files or directories in the package.

---

**Note** - The `/var/mail` and `/var/news` directories, which usually reside on an automounted file system, are not affected by an upgrade.

---

*Reason 2:* New software has been added to the software group that you are upgrading or some of the existing software has increased in size. During an upgrade, the installation program installs any new software that is part of the software group previously installed on the system, and it also upgrades any existing packages on the system.

*Solution for Reason 2:* During the upgrade, delete software packages that are installed in the file systems that need more space. Especially look for any new packages that have been added to the Solaris software that you don't need.



## Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD

This appendix lists and describes the packages included on the CD labeled Solaris 8 Software 1 of 2 SPARC Platform Edition.

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD

<b>This Package</b>	<b>Contains</b>
FJSVhea	SunOS C/C++ header files for general development of software
FJSVvplr.us	Fujitsu platform links
FJSVvplu.us	Fujitsu <code>usr/platform</code> links
NSCPcom	Application and configuration files of Netscape Communicator 4.7 supporting International security
NSCPcpcom	Simplified Chinese partial version of Netscape Communicator 4.7 supporting International security
NSCPphcom	Traditional Chinese partial version of Netscape Communicator 4.7 supporting International security
NSCPjacom	Japanese (common) localization of Netscape Communicator 4.7 supporting International security
NSCPkpcom	Korean Partial version of Netscape Communicator 4.7 supporting International security

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
PFUdfb.m	S-4/Leia LCD Dumb Frame Buffer Driver
PFUvplr.m	PFU/Fujitsu platform links
PFUvplu.m	PFU/Fujitsu usr/platform links
SMEvplr.u	SME platform links (root)
SMEvplu.u	SME platform links (usr)
SUNW1251f	Russian additional locale fonts (1251)
SUNW5dt	Traditional Chinese Localizations for CDE Desktop Login Environment
SUNW51eu	Traditional Chinese Language Environment specific files; it is a required package to run Traditional Chinese BIG5 Language Environment
SUNW51eux	Traditional Chinese (BIG5) Language Environment User Files (64-bit)
SUNW5ttf	Traditional Chinese True Type Fonts Package
SUNW5xmft	Chinese/Traditional Chinese BIG5 X Window System Platform Required Fonts Package
SUNW5xplt	Traditional Chinese BIG5 X Window System Platform Software Package
SUNW5xplx	Traditional Chinese (BIG5) X Window System Platform Software Package (64-bit)
SUNWadmap	Software used to perform system administration tasks
SUNWadmcc	Core software libraries used for system administration
SUNWadmfw	System and network administration libraries and services
SUNWadmj	Java libraries used for system administration tools
SUNWadmr	root programs and scripts for initializing system installation

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWafb.u	Device driver for the UPA Bus Elite3D graphics accelerator
SUNWafbcf	Configuration software for the UPA Bus Elite3D graphics accelerator
SUNWafbr	Boot-time device initialization support for the UPA Bus Elite3D graphics accelerator
SUNWafbw	X server loadable module for the UPA Bus Elite3D graphics accelerator
SUNWafbx.u	Device driver for the UPA Bus Elite3D graphics accelerator (64-bit)
SUNWale	Common files shared by Chinese, Japanese, and Korean locales; it is a required package to run Asian Language Environment
SUNWaled	Man pages shared by Chinese, Japanese, and Korean locales
SUNWalex	Common files shared by Chinese, Japanese, and Korean locales; it is a required package to run Asian Language Environment (64-bit)
SUNWami	Authentication Management Infrastructure (AMI) - core libraries and utilities
SUNWamir	Authentication Management Infrastructure (AMI) - configuration files
SUNWamix	Authentication Management Infrastructure (AMI) - 64-bit core libraries
SUNWarrf	X11 fonts for Arabic character set (required fonts)
SUNWatfsr	Configuration and start-up files for the AutoFS file system
SUNWatfsu	Utilities and a daemon ( <code>automountd</code> ) for the AutoFS file system
SUNWauadt	Australasia CDE Support
SUNWauaos	Australasia OS Support
SUNWauaow	Australasia OW Support

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWauaox	Australasia 64-bit OS Support
SUNWauda	SunOS audio applications
SUNWaudd	SunOS audio device drivers using the new audio driver architecture
SUNWauddx	SunOS audio device drivers using the new audio driver architecture (64-bit)
SUNWaudio	Audio binaries
SUNWbcp	Utilities to provide a binary-compatible execution environment for SunOS 4.x applications
SUNWcamdt	Central America CDE Support
SUNWcamos	Central America OS Support
SUNWcamow	Central America OW Support
SUNWcamox	Central America 64-bit OS Support
SUNWcar.d	Core software for a specific hardware platform group
SUNWcar.m	Core software for a specific hardware platform group
SUNWcar.u	Core software for a specific hardware platform group
SUNWcar.us	Core software for a specific hardware platform group
SUNWcarx.u	Core 64-bit software for a specific hardware platform group
SUNWcarx.us	Core 64-bit software for a specific hardware platform group
SUNWcdt	Simplified Chinese (EUC) Localizations for CDE Desktop Login Environment
SUNWceudt	Central Europe CDE Support



**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWceuos	Central Europe OS Support
SUNWceuow	Central Europe OW Support
SUNWceuox	Central Europe 64-bit OS Support
SUNWcg6.d	Kernel device driver for the GX frame buffer
SUNWcg6.m	Kernel device driver for the GX frame buffer
SUNWcg6.u	Kernel device driver for the GX frame buffer
SUNWcg6.us	Kernel device driver for the GX frame buffer
SUNWcg6x.u	Kernel device driver (64-bit) for the GX frame buffer
SUNWcg6x.us	Kernel device driver (64-bit) for the GX frame buffer
SUNWciu8	Simplified Chinese (EUC) iconv modules for UTF-8
SUNWciu8x	Simplified Chinese (EUC) iconv modules for UTF-8 (64-bit)
SUNWcleu	Simplified Chinese (EUC) Language Environment specific files; it is a required package to run Simplified Chinese (EUC) Language Environment
SUNWcleux	Simplified Chinese (EUC) Language Environment specific files; it is a required package to run Simplified Chinese (EUC) Language Environment (64-bit)
SUNWcpr.m	Suspend, Resume package
SUNWcpr.u	Suspend, Resume package
SUNWcpr.us	Suspend, Resume package
SUNWcprx.u	Suspend, Resume package (64-bit)
SUNWcprx.us	Suspend, Resume package (64-bit)

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
SUNWcscd	Core entries for /dev and /devices needed for the initial boot of Solaris
SUNWcsl	Core shared libraries for a specific instruction-set architecture
SUNWcslx	Core 64-bit libraries for a specific instruction-set architecture
SUNWcsr	Core software for a specific instruction-set architecture
SUNWcsu	Core software for a specific instruction-set architecture
SUNWcsxu	Core 64-bit software for a specific instruction-set architecture
SUNWctl	Print utilities for CTL locales
SUNWctpls	Layout interface for language engines
SUNWctplx	64-bit layout interface for language engines
SUNWcttf	Simplified Chinese (EUC) True Type Fonts
SUNWcudt	Simplified Chinese (UTF-8) Localizations for CDE Desktop Login Environment
SUNWcufnt	Simplified Chinese (UTF-8) X Window System Platform Required Fonts
SUNWculeu	Simplified Chinese (UTF-8) Language Environment specific files; it is a required package to run Simplified Chinese (UTF-8) Language Environment
SUNWculex	Simplified Chinese (UTF-8) Language Environment specific files (64-bit)
SUNWcuplt	Simplified Chinese (UTF-8) X Window System Platform Software Package
SUNWcvc.u	Network Console
SUNWcvcr.u	Network Console daemon and rc script
SUNWvcx.u	Network Console (64-bit)

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWcxmft	Simplified Chinese (EUC) X Window System Platform Required Fonts
SUNWcxplt	Simplified Chinese (EUC) X Window System Platform Software Package
SUNWdeis	German install software localization
SUNWdespl	Spell Checking Engine - German Dictionary
SUNWdfb.d	Kernel device drivers for dumb frame buffers
SUNWdfb.m	Kernel device drivers for dumb frame buffers
SUNWdfb.u	Kernel device drivers for dumb frame buffers
SUNWdfb.us	Kernel device drivers for dumb frame buffers
SUNWdj2rt	Java virtual machine and core class libraries (German supplement)
SUNWdjvdv	German Localizations for JavaVM developers package
SUNWdjvrt	German Localizations for JavaVM Runtime environment
SUNWdoc	Utilities and fonts for development, display, and production of documentation such as manual pages ( <i>nroff/troff</i> )
SUNWdrr.u	Dynamic Reconfiguration Modules for Sun Enterprise 10000
SUNWdrrx.u	Dynamic Reconfiguration Modules for Sun Enterprise 10000 (64-bit)
SUNWdtbas	CDE application basic Runtime environment
SUNWdtbax	CDE application basic Runtime environment (64-bit)
SUNWdtcor	Solaris Desktop /usr/dt file system anchor
SUNWdtct	UTF-8 Code Conversion Tool

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWdtdmn	Daemons for the Common Desktop Environment, CDE
SUNWdtdst	CDE Desktop Applications
SUNWdtdte	Solaris Desktop Login Environment
SUNWdtezt	Address Manager, Process Manager, File Finder, Perfimeter, Workstation Info
SUNWdthe	CDE Help Runtime environment
SUNWdthev	CDE Help Volumes
SUNWdthez	Desktop Power Pack Help Volumes
SUNWdticn	Icons for the Common Desktop Environment, CDE
SUNWdtim	Solaris CDE Image Viewer
SUNWdtjxt	Java Extensions
SUNWdtlog	System boot for Desktop Login
SUNWdtnsc	Netscape Componentization Support for CDE
SUNWdtrme	Common Desktop Environment (CDE) release documentation
SUNWdtscm	CDE Dtpower Schemes
SUNWdtwm	CDE Desktop Window Manager
SUNWeeudt	Eastern Europe CDE Support
SUNWeeuos	Eastern Europe OS Support
SUNWeeuow	Eastern Europe OW Support

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWeeuox	Eastern Europe 64-bit OS Support
SUNWej2rt	Java virtual machine and core class libraries (Spanish supplement)
SUNWejvdv	Spanish Localizations for JavaVM developers package
SUNWejvrt	Spanish Localizations for JavaVM Runtime environment
SUNWensqr.u	Ensoniq ES1370/1371/1373 Audio Device Driver (32-bit), (root)
SUNWensqx.u	Ensoniq ES1370/1371/1373 Audio Device Driver (64-bit), (root)
SUNWesis	Latin Spanish install software localization
SUNWesspl	Spell Checking Engine - Spanish Dictionary
SUNWesu	Additional UNIX system utilities, including awk, bc, cal, compress, diff, dos2unix, last, rup, sort, spell, sum, uniq, and uuencode
SUNWesxu	Additional 64-bit UNIX system utilities
SUNWeudba	American English/UTF-8 L10N for CDE Base
SUNWeudbd	American English/UTF-8 L10N for CDE Dtbuilder
SUNWeudda	American English/UTF-8 L10N for CDE Desktop Applications
SUNWeudhr	American English/UTF-8 L10N for CDE Help Runtime
SUNWeudhs	American English/UTF-8 L10N for CDE Help Runtime
SUNWeudis	American English/UTF-8 L10N for CDE Icons
SUNWeudiv	American English/UTF-8 L10N for Desktop Image tools
SUNWeudlg	American English/UTF-8 L10N for CDE Desktop Login Environment

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWeudmg	American English/UTF-8 L10N for Desktop Window Manager
SUNWeuezt	American English/UTF-8 L10N for Desktop Power Pack Applications
SUNWeugrf	X11 fonts for sun_eu_greek character set
SUNWeuluf	American English/UTF-8 L10N for Environment User Files
SUNWeulux	American English/UTF-8 L10N for Environment User Files (64-bit)
SUNWeuodf	American English/UTF-8 Core OPEN LOOK Desktop Files
SUNWeusru	American English/UTF-8 L10N for Solaris User Registration
SUNWeuxwe	American English/UTF-8 X Window System Environment
SUNWfbc	Generic frame buffer configuration utility
SUNWfcp	Sun FCP SCSI Fibre Channel Device Driver
SUNWfcpX	Sun FCP SCSI Fibre Channel Device Driver (64-bit)
SUNWfctl	Fctl module and fp device driver
SUNWfctlX	Fctl module and fp device driver (64-bit)
SUNWfdl	Solaris Desktop Font Downloader for Adobe PostScript printers
SUNWffb.u	Device driver for the UPA Bus Creator graphics accelerator
SUNWffbcf	Configuration utility for the UPA Bus Creator graphics accelerator
SUNWffbw	X server loadable module for the UPA Bus Creator graphics accelerator
SUNWffbx.u	Device driver for the UPA Bus Creator graphics accelerator (64-bit)

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWfj2rt	Java virtual machine and core class libraries (French supplement)
SUNWfjvdx	French Localizations for JavaVM developers package
SUNWfjvrt	French Localizations for JavaVM Runtime environment
SUNWfns	Federated Naming Service (XFN) - core libraries and utilities
SUNWfnsx	Federated Naming Service (XFN) - core libraries and utilities (64-bit)
SUNWfris	French install software localization
SUNWfrspl	Spell Checking Engine - French Dictionary
SUNWftpr	File Transfer Protocol Daemon and Utilities
SUNWftpu	File Transfer Protocol Daemon and Utilities
SUNWgdt	Simplified Chinese (GBK) Localizations for CDE Desktop Login Environment
SUNWgleu	Simplified Chinese (GBK) Language Environment specific files; it is a required package to run Simplified Chinese (GBK) Language Environment
SUNWgleux	Simplified Chinese (GBK) Language Environment specific files (64-bit)
SUNWglmr.u	Symbios 875/876 SCSI device driver, (root)
SUNWglmx.u	Symbios 875/876 SCSI device driver, (root)
SUNWgsdhx	GSS-API 64-bit mechanism libraries for NIS+ extended Diffie-Hellman
SUNWgss	Generic Security Service Application Program Interface, Version 2 - user
SUNWgssc	Generic Security Service Application Program Interface, Version 2 - config
SUNWgssdh	GSS-API mechanism libraries for NIS+ extended Diffie-Hellman

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWgssk	Generic Security Service Application Program Interface, Version 2 - kernel
SUNWgsskx	Generic Security Service Application Program Interface, Version 2 - kernel (64-bit)
SUNWgssx	Generic Security Service Application Program Interface, Version 2 - user (64-bit)
SUNWgttf	Simplified Chinese (GBK) True Type Fonts
SUNWgxfont	Simplified Chinese (GBK) X Window System Platform Required Fonts
SUNWgxplt	Simplified Chinese (GBK) X Window System Platform Software Package
SUNWgxplx	Simplified Chinese (GBK) X Window System Platform Software Package (64-bit)
SUNWhdt	Traditional Chinese Localizations for CDE Desktop Login Environment
SUNWhiu8	Traditional Chinese iconv modules for UTF-8
SUNWhiu8x	Traditional Chinese (EUC) iconv modules for UTF-8 (64-bit)
SUNWhler	Stream modules for Traditional Chinese Language Environment; it is a required package to run Traditional Chinese Language Environment
SUNWhlerx	Stream modules for Traditional Chinese Language Environment; it is a required package to run Traditional Chinese Language Environment (64-bit)
SUNWhleu	Traditional Chinese Language Environment specific files; it is a required package to run Traditional Chinese Language Environment
SUNWhleux	Traditional Chinese (EUC) Language Environment specific files; it is a required package to run Traditional Chinese Language Environment (64-bit)
SUNWhmd	SunSwift SBus Adapter Drivers
SUNWhmdu	SunSwift SBus Adapter Headers
SUNWhmdx	SunSwift SBus Adapter Drivers (64-bit)



**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWhttf	Traditional Chinese True Type Fonts Package
SUNWhudt	Traditional Chinese (UTF-8) Localizations for CDE Desktop Login Environment
SUNWhufnt	Simplified Chinese (UTF-8) X Window System Platform Required Fonts
SUNWhuleu	Traditional Chinese (UTF-8) Language Environment specific files; it is a required package to run Traditional Chinese UTF-8 Language Environment
SUNWhulex	Traditional Chinese (UTF-8) Language Environment User Files (64-bit)
SUNWhuplt	Traditional Chinese UTF-8 X Window System Platform Software Package
SUNWhxfnt	Traditional Chinese X Window System Platform Required Fonts Package
SUNWhxplt	Traditional Chinese X Window System Platform Software Package
SUNWi13cs	X11 ISO-8859-13 Codeset Support
SUNWi13rf	X11 fonts for ISO-8859-13 character set (required fonts)
SUNWi15cs	X11 ISO-8859-15 Codeset Support
SUNWi15rf	X11 fonts for ISO-8859-15 character set (required fonts)
SUNWi1cs	X11 ISO-8859-1 Codeset Support
SUNWi1of	ISO-8859-1 (Latin-1) Optional Fonts
SUNWi2cr.u	Device drivers for I2C devices, (root, 32-bit)
SUNWi2cs	X11 ISO-8859-2 Codeset Support
SUNWi2cx.u	Device drivers for I2C devices, (root, 64-bit)
SUNWi2of	X11 fonts for ISO-8859-2 character set (optional fonts)

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
SUNWi2rf	X11 fonts for ISO-8859-2 character set (required fonts)
SUNWi4of	X11 fonts for ISO-8859-4 character set (optional fonts)
SUNWi4rf	X11 fonts for ISO-8859-4 character set (required fonts)
SUNWi5cs	X11 ISO-8859-5 Codeset Support
SUNWi5of	X11 fonts for ISO-8859-5 character set (optional fonts)
SUNWi5rf	X11 fonts for ISO-8859-5 character set (required fonts)
SUNWi7cs	X11 ISO-8859-7 Codeset Support
SUNWi7of	X11 fonts for ISO-8859-7 character set (optional fonts)
SUNWi7rf	X11 fonts for ISO-8859-7 character set (required fonts)
SUNWi8rf	X11 fonts for ISO-8859-8 character set (required fonts)
SUNWi9cs	X11 ISO-8859-9 Codeset Support
SUNWi9of	X11 fonts for ISO-8859-9 character set (optional fonts)
SUNWi9rf	X11 fonts for ISO-8859-9 character set (required fonts)
SUNWidocr.u	IDE device drivers updated for UltraAX
SUNWidecx.u	IDE device drivers - 64-bit, updated for UltraAX
SUNWider.u	IDE Device Driver, (root)
SUNWidn.u	Inter-Domain Network Modules for Sun Enterprise 10000
SUNWidnx.u	Inter-Domain Network Modules for Sun Enterprise 10000 (64-bit)

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
SUNWifb.u	Device driver for the PCI Bus Sun Expert3D (IFB) graphics accelerator
SUNWifbcf	Configuration utility for the PCI Bus Sun Expert3D (IFB) graphics accelerator
SUNWifbr	Boot-time device initialization support for the PCI Bus Sun Expert3D (IFB) graphics accelerator
SUNWifbw	X server loadable module for the PCI Bus Sun Expert3D (IFB) graphics accelerator
SUNWifbx.u	Device driver for the PCI Bus Sun Expert3D (IFB) graphics accelerator (64-bit)
SUNWifp	Sun FC-AL Device Driver for QLogic Fibre Channel Family
SUNWifpx	Sun FC-AL Device Driver for QLogic Fibre Channel Family (64-bit)
SUNWigsr.u	Kernel device driver (32-bit) for the IGS graphics card
SUNWigsu	OpenWindows DDX driver and utilities for the IGS graphics card
SUNWigsx.u	Kernel 64-bit device driver for the IGS graphics card
SUNWiimr	Internet/Intranet Input Method Framework (root)
SUNWiimu	Internet/Intranet Input Method Framework (usr)
SUNWij2rt	Java virtual machine and core class libraries (Italian supplement)
SUNWijvdr	Italian Localizations for JavaVM developers package
SUNWijvrt	Italian Localizations for JavaVM Runtime environment
SUNWinst	Sun installation software
SUNWipc	Utilities to monitor or remove messages, semaphores, or shared memory for interprocess communication

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWipc	64-bit utilities to monitor or remove messages, semaphores, or shared memory for interprocess communication
SUNWislcc	XSH4 conversion for Eastern European locales
SUNWislcx	64-bit iconv conversion for Eastern European locales
SUNWisolc	XSH4 conversion for ISO Latin character sets
SUNWisolx	64-bit iconv conversion for ISO Latin character sets
SUNWitis	Italian install software localization
SUNWitspl	Spell Checking Engine - Italian Dictionary
SUNWj2dem	Demonstration applications and applets
SUNWj2pi	Configuration files for Java Plug-In 1.2.2
SUNWj2rt	Java virtual machine and core class libraries
SUNWjc0r	Japanese Kana-Kanji Conversion Server cs00 root Files
SUNWjc0u	Japanese Kana-Kanji Conversion Server cs00 User Files
SUNWjcom	Java Communications API for Smart Card support - Java and Native Code
SUNWjcomx	Java Communications API for Smart Card support - Native Code (64-bit)
SUNWjedt	Japanese (EUC) Localization for CDE Desktop Login Environment
SUNWjeuc	Japanese (EUC) Feature Package specific files for usr; it is a required package to support EUC environment
SUNWjeucx	Japanese (EUC) Feature Package specific 64-bit files for usr; it is a required package to run JFP environment
SUNWjexpl	Japanese (EUC) Localizations for X Window System platform software

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWjexpx	Japanese (EUC) Localizations for X Window System platform software (64-bit)
SUNWjfpr	Stream modules for Japanese Feature Package (JFP); it is a required package to run JFP environment
SUNWjfpu	Japanese Feature Package (JFP) specific files for <code>usr</code> ; it is a required package to run JFP environment
SUNWjfpux	Japanese Feature Package (JFP) specific 64-bit files for <code>usr</code> ; it is a required package to run JFP environment
SUNWjib	Dallas Semiconductor serial iButton OCF Card Terminal Driver
SUNWjiu8	Japanese iconv modules which convert data between {eucJP PCK} and UTF-8
SUNWjiu8x	Japanese 64-bit iconv modules which convert data between {eucJP PCK} and UTF-8
SUNWjman	Japanese Feature Package Man Pages to see English man pages for SUNWjfpr and SUNWjfpu
SUNWjmfp	JMF player
SUNWjpck	Japanese (PCK - PC Kanji Code) Feature Package specific files; it is a required package to support PCK environment
SUNWjpckx	Japanese (PCK) Feature Package specific 64-bit files for <code>usr</code> ; it is a required package to run JFP environment
SUNWjpdtd	Japanese (PCK) Localization for CDE Desktop Login Environment
SUNWjpxp1	Japanese (PCK) Localizations for X Window System platform software
SUNWjpxpx	Japanese (PCK) Localizations for X Window System platform software (64-bit)
SUNWju8	Japanese (UTF-8) Feature Package specific files; it is a required package to support Japanese UTF-8 environment
SUNWju8x	Japanese (UTF-8) Feature Package specific 64-bit files for <code>usr</code> ; it is a required package to run JFP environment

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
SUNWjudt	Japanese (UTF-8) Localization for CDE Desktop Login Environment
SUNWjuxpl	Japanese (UTF-8) Localizations for X Window System platform software
SUNWjvjit	Java JIT compiler
SUNWjvrt	JavaVM Runtime environment, includes java, appletviewer, and classes.zip
SUNWjwbc	Japanese Localizations for Solaris WBEM Services
SUNWjxcft	Japanese JISX212 TrueType and bitmap fonts
SUNWjxmft	Japanese X Window System Minimum Required Fonts - gothic medium
SUNWkdt	Korean Localizations for CDE Desktop Login Environment
SUNWkey	Configuration tables that specify keyboard attributes such as localized meanings for individual keys
SUNWkiu8	Korean UTF-8 iconv modules for UTF-8
SUNWkiu8x	Korean (UTF-8) iconv modules for UTF-8 (64-bit)
SUNWkler	Stream modules for Korean Language Environment; it is a required package to run Korean Language Environment
SUNWklerx	Stream modules for Korean Language Environment; it is a required package to run Korean Language Environment (64-bit)
SUNWkleu	Korean Language Environment specific files; it is a required package to run Korean Language Environment
SUNWkleux	Korean (EUC) Language Environment specific files; it is a required package to run Korean Language Environment (64-bit)
SUNWkmp2r.u	PS/2 Keyboard and Mouse Device Drivers, (root, 32-bit)
SUNWkmp2x.u	PS/2 Keyboard and Mouse Device Drivers, (root, 64-bit)

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWkoi8f	X11 fonts for KOI8-R character set
SUNWkttf	Korean True Type Fonts
SUNWkudt	Korean/UTF-8 Localizations for CDE Desktop Login Environment
SUNWkuleu	Korean UTF-8 Language Environment specific files; it is a required package to run Korean Language Environment
SUNWkulex	Korean (UTF-8) Language Environment specific files; it is a required package to run Korean Language Environment (64-bit)
SUNWkuxpl	Korean UTF-8 X Window System Platform Software Package
SUNWkvm.d	Core software for a specific hardware platform group
SUNWkvm.m	Core software for a specific hardware platform group
SUNWkvm.u	Core software for a specific hardware platform group
SUNWkvm.us	Core software for a specific hardware platform group
SUNWkvmx.u	Core software for a specific hardware platform group
SUNWkvmx.us	Core software for a specific hardware platform group
SUNWkxfnt	Korean X Window System Platform Required Fonts
SUNWkxmft	Korean UTF-8 X Window System Platform Required Fonts
SUNWkxplt	Korean X Window System Platform Software Package
SUNWlccom	Localization common files
SUNWlcl	Locale Conversion Library
SUNWlclx	Locale Conversion Library (64-bit)

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWlibC	Sun Workshop Compilers Bundled libC
SUNWlibCf	Sun WorkShop Bundled libC (cfront version)
SUNWlibCx	Sun Workshop Bundled 64-bit libC
SUNWlibms	Sun WorkShop Bundled shared libm
SUNWllc	LLC2 driver implementing IEEE 802.2 Logical Link Control 2 service
SUNWllcr	The configuration and startup files for llc2 driver
SUNWllcx	64-bit kernel device drivers implementing IEEE 802.2 Logical Link Control 2 service
SUNWlmsx	Sun WorkShop Bundled 64-bit shared libm
SUNWloc	Localization utilities and C locale (POSIX default) definitions
SUNWlocx	Localization utilities and C locale (POSIX default) definitions (64-bit)
SUNWlpmsg	ToolTalk programs for passing printer alerts
SUNWluxd.d	Sun Enterprise Network Array sf Device Driver
SUNWluxd.u	Sun Enterprise Network Array sf Device Driver
SUNWluxd.us	Sun Enterprise Network Array sf Device Driver
SUNWluxdx.u	Sun Enterprise Network Array sf Device Driver (64-bit)
SUNWluxdx.us	Sun Enterprise Network Array sf Device Driver (64-bit)
SUNWluxl	Sun Enterprise Network Array social Device Driver
SUNWluxlx	Sun Enterprise Network Array social Device Driver (64-bit)



**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWluxop	Sun Enterprise Network Array firmware and utilities
SUNWm64.u	Device driver for the M64 graphics accelerator
SUNWm64.us	Device driver for the M64 graphics accelerator
SUNWm64cf	Configuration utility for the PCI Bus M64 graphics accelerator
SUNWm64w	X server loadable module for the M64 graphics accelerator
SUNWm64x.u	Device driver for the M64 graphics accelerator (64-bit)
SUNWm64x.us	Device driver for the M64 graphics accelerator (64-bit)
SUNWm64xr.u	Extended configuration for Xclaim, Charger and Rage Pro graphics cards
SUNWm64xr.us	Extended configuration for Xclaim and Charger graphics cards
SUNWmeadt	Middle East CDE Support
SUNWmeaos	Middle East OS Support
SUNWmeaow	Middle East OW Support
SUNWmeaox	Middle East 64-bit OS Support
SUNWmfrun	Motif 2.1.1 libraries, headers, xmbind and bindings
SUNWmgapp	Solaris Management Applications
SUNWmibii	Solstice Enterprise Agents 1.0.3 snmp daemon
SUNWmp	MP Print Filter
SUNWnafdt	Northern Africa CDE Support

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWnafos	Northern Africa OS Support
SUNWnafow	Northern Africa OW Support
SUNWnafox	Northern Africa 64-bit OS Support
SUNWnamdt	North America CDE Support
SUNWnamos	North America OS Support
SUNWnamow	North America OW Support
SUNWnamox	North America 64-bit OS Support
SUNWneudt	Northern Europe CDE Support
SUNWneuos	Northern Europe OS Support
SUNWneuow	Northern Europe OW Support
SUNWneuox	Northern Europe 64-bit OS Support
SUNWnistr	Configuration files and directories for the Network Information System (NIS and NIS+)
SUNWnису	Utilities for the Network Information System (NIS and NIS+)
SUNWntpr	Network Time Protocol v3, NTP Daemon and Utilities (xntpd 3.4y)
SUNWntpu	Network Time Protocol v3, NTP Daemon and Utilities (xntpd 3.4y)
SUNWocf	Open Card Framework - core libraries and utilities
SUNWocfh	Open Card Framework - header files
SUNWocfr	Open Card Framework - configuration files

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWocfx	Open Card Framework (OCF) - 64-bit core libraries
SUNWolaud	Audiotool and other auxiliary audio support
SUNWolbk	OpenWindows online handbooks
SUNWoldcv	OPEN LOOK document and help view applications
SUNWoldst	OPEN LOOK deskset tools
SUNWoldte	OPEN LOOK Desktop Environment (olwm, props, wsinfo, etc.)
SUNWolimt	OPEN LOOK imagetool
SUNWolrte	OPEN LOOK toolkits Runtime environment
SUNWowbcp	Support files, programs, and libraries for OpenWindows Binary Compatibility
SUNWpamsc	Pluggable Authentication Module for Smart Card Authentication
SUNWpamsx	Pluggable Authentication Module for Smart Card Authentication (64-bit)
SUNWpcelx	3COM EtherLink III PCMCIA Ethernet Driver
SUNWpcmci	Kernel modules and start-up files for PCMCIA card services
SUNWpcmcu	Daemon providing PCMCIA card services
SUNWpcmcx	64-bit kernel modules for PCMCIA card services
SUNWpcmem	PCMCIA memory card driver
SUNWpcr	Client configuration files and utilities for the print service
SUNWpcser	PCMCIA serial card driver

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
SUNWpcu	Client configuration files and utilities for the print service
SUNWpd	Drivers for SPARC platforms with the PCI bus
SUNWpdas	Tools to synchronize desktop applications with the Palm Pilot PDA
SUNWpdx	64-bit Drivers for SPARC platforms with the PCI bus
SUNWp15u	Perl 5 programming language
SUNWplow	OpenWindows enabling for Partial Locales
SUNWplow1	OpenWindows enabling for Supplementary Partial Locales
SUNWpmowr	Power Management OW Utilities, (root)
SUNWpmowu	Power Management OW Utilities, (usr)
SUNWpmr	Power Management configuration file and rc script
SUNWpmu	Power Management binaries
SUNWpmux	Power Management binaries (64-bit)
SUNWppm	Graphical tool for managing printers under Solaris
SUNWpsdpr	PCMCIA ATA card driver
SUNWpsf	Client configuration files and utilities for the print service
SUNWpsr	Configuration and start-up files for the print service
SUNWpsu	Client configuration files and utilities for the print service
SUNWqfed	Sun Quad FastEthernet PCI/SBus Adapter 32-bit Driver

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWqfedx	Sun Quad FastEthernet PCI/SBus Adapter 64-bit Driver
SUNWrdm	OILBN ReadMe Directory
SUNWrmodu	Realmode Modules, (usr)
SUNWrsg	GSS-API services for ONC RPC
SUNWrsgk	Kernel GSS-API services for ONC RPC
SUNWrsgx	GSS-API services for ONC RPC (64-bit)
SUNWsacom	Solstice Enterprise Agents 1.0.3 files for root file system
SUNWsadmi	Solstice Enterprise Agents 1.0.3 Desktop Management Interface
SUNWsadmX	Solstice Enterprise Agents 1.0.3 Desktop Management Interface Libraries (64-bit)
SUNWsamdt	South America CDE Support
SUNWsamos	South America OS Support
SUNWsamow	South America OW Support
SUNWsamox	South America 64-bit OS Support
SUNWsasnm	Solstice Enterprise Agents 1.0.3 Simple Network Management Protocol
SUNWsasnx	Solstice Enterprise Agents 1.0.3 Simple Network Management Protocol Libraries (64-bit)
SUNWscbcp	SPARCompilers Binary Compatibility Libraries
SUNWscgui	Solaris Smart Card Administration - Graphical User Interface component
SUNWscmos	SCM Microsystems SmartOS smart card protocol module

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
SUNWscmsc	Sun External Smart Card Reader 1 OCF Card Terminal Driver
SUNWscplp	Print utilities for user interface and source build compatibility with SunOS 4.x
SUNWscpr	Utilities for user interface and source build compatibility with SunOS 4.x
SUNWscpu	Utilities for user interface and source build compatibility with SunOS 4.x
SUNWses	SCSI Enclosure Services (ses) Device Driver
SUNWsesx	SCSI Enclosure Services (ses) Device Driver (64-bit)
SUNWseudt	Southern Europe CDE Support
SUNWseuos	Southern Europe OS Support
SUNWseuow	Southern Europe OW Support
SUNWseuox	Southern Europe 64-bit OS Support
SUNWsior.u	SuperIO 307 (plug-n-play) device drivers, (root)
SUNWsiox.u	SuperIO 307 (plug-n-play) device drivers, (root)
SUNWsj2rt	Java virtual machine and core class libraries (Swedish supplement)
SUNWsjvdc	Swedish Localizations for JavaVM developers package
SUNWsjvrt	Swedish Localizations for JavaVM Runtime environment
SUNWslpr	root file system portion of the Service Location Protocol (SLP) framework; includes the SLP configuration file and start scripts for the SLP daemon
SUNWslpu	usr file system portion of the Service Location Protocol (SLP) framework; included are C and Java developer libraries and a daemon which can act as a directory agent (DA)

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWslpx	Service Location Protocol (SLP) 64-bit developer libraries
SUNWsndmr	Sendmail root
SUNWsndmu	Sendmail user
SUNWsolnm	Enable Solaris Name in <code>/etc/release</code> file
SUNWspl	Spell Checking Engine - Base Release (English)
SUNWsgregu	Solaris User Registration prompts at desktop login for user registration information
SUNWssad	Pln, soc, and ssd kernel device drivers
SUNWssadx	Pln, soc, and ssd kernel device drivers (64-bit)
SUNWssaop	Administration utilities and firmware for the SPARCstorage Array (SSA)
SUNWsvis	Swedish install software localization
SUNWsvspl	Spell Checking Engine - Swedish Dictionary
SUNWswmt	Solaris 2.x Install and Patch Utilities
SUNWsx	Shareable library and header files for SX/CG14 loadable pipeline support
SUNWsxow	X server loadable module for the SX/CG14 graphics accelerator
SUNWsxr.m	Kernel device drivers for the SX video subsystem
SUNWtcx.m	Device driver for the S24 frame buffer
SUNWtcxow	X server loadable module and configuration utility for the S24 frame buffer
SUNWtdbas	Thai Localizations for CDE Base functionality

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
SUNWtddst	Thai Localizations for CDE Desktop Applications
SUNWtddte	Thai Localizations for CDE Desktop Login Environment
SUNWtdft	Thai Localizations for CDE Fonts
SUNWtdwm	Thai Localizations for CDE Desktop Window Manager
SUNWtiu8	Thai UTF-8 iconv modules for UTF-8
SUNWtiu8x	Thai UTF-8 iconv modules for UTF-8 (64-bit)
SUNWtleu	Thai Language Environment specific files; it is a required package to run Thai Language Environment
SUNWtleux	Thai Language Environment specific files; it is a required package to run Thai Language Environment (64-bit)
SUNWtltk	ToolTalk binaries and shared libraries needed for Common Desktop Environment (CDE), OpenWindows, and all ToolTalk clients
SUNWtltkx	ToolTalk library (64-bit) needed for Common Desktop Environment (CDE), OpenWindows, and all ToolTalk clients
SUNWtoo	Utilities for software development, including <code>ld</code> , <code>ldd</code> , <code>od</code> , and <code>truss</code>
SUNWtoox	Utilities for software development (64-bit)
SUNWtxfnt	Thai X Window System Platform Required Fonts Package
SUNWtxodt	Thai Core OPEN LOOK Desktop Package
SUNWtxplt	X Window System Platform Software Package
SUNWudf	Universal Disk Format 1.50 File System, ( <code>usr</code> )
SUNWudfr	Universal Disk Format 1.50 File System



**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWudfrx	Universal Disk Format 1.50 File System (64-bit)
SUNWuiu8	Iconv modules for UTF-8 Locale
SUNWuiu8x	Iconv Modules for UTF-8 Locale (64-bit)
SUNWuium	Iconv Manual pages for UTF-8 Locale
SUNWulcf	UTF-8 Locale Environment Common Files
SUNWulcfx	UTF-8 Locale Environment Common Files (64-bit)
SUNWulocf	UTF-8 Locale Environment OpenWindows Common Files
SUNWusb	USBA (USB framework) and USB Device Drivers
SUNWusbx	USBA (USB framework) and USB Device Drivers (64-bit)
SUNWusoc	Sun Universal SOC+ Fibre Channel Device Driver
SUNWusocx	Sun Universal SOC+ Fibre Channel Device Driver (64-bit)
SUNWuxfl1.u	System FLASH PROM update for SUNW Ultra-1
SUNWuxfl2.u	System FLASH PROM update for SUNW Ultra-2
SUNWuxfl4.u	System FLASH PROM update for SUNW Ultra-4
SUNWuxfle.u	System FLASH PROM update for SUNW Ultra-Enterprise
SUNWuxflr.u	Generic components for sun4u System FLASH PROM Update
SUNWuxflu.u	Generic components for sun4u System FLASH PROM Update
SUNWuxlcf	UTF-8 X Locale Environment Common Files

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
SUNWuxlcx	UTF-8 X Locale Environment Common Files (64-bit)
SUNWvolg	Volume Management Graphical User Interface
SUNWvolr	Configuration and start-up files for volume (removable media) management and volfs
SUNWvolu	Utilities and a daemon (vold) for volume (removable media) management and volfs
SUNWvolux	Driver for volume (removable media) management (64-bit)
SUNWvygdr.m	Voyager Drivers and Streams Module
SUNWwbapi	Solaris WBEM API
SUNWwbcor	Solaris WBEM Services (root)
SUNWwbcou	Solaris WBEM Services (usr)
SUNWweudt	Western Europe CDE Support
SUNWweuos	Western Europe OS Support
SUNWweuow	Western Europe OW Support
SUNWweuox	Western Europe 64-bit OS Support
SUNWwsr	Product registry, viewer, and Web Start support
SUNWxcu4	Utilities providing conformance with XCU4 specifications
SUNWxcu4x	64-bit utilities providing conformance with XCU4 specifications
SUNWxi18n	Runtime library loaded by libX11.so; provides input and output capability for internationalized X Window System applications

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD (continued)

<b>This Package</b>	<b>Contains</b>
SUNWxi18x	Runtime library loaded by <code>sparcv9/libX11.so</code> ; provides input and output capability for internationalized X Window System applications
SUNWxilcg	XIL loadable pipelines for the SX/CG14 graphics accelerator
SUNWxildh	XIL Loadable Pipeline Libraries
SUNWxilow	XIL Deskset Loadable Pipeline Libraries
SUNWxilrl	XIL Runtime Environment
SUNWxilvl	XIL loadable pipelines for all sun4u platforms; includes loadable pipelines for the UPA Bus Creator graphics accelerator
SUNWxim	X Input Method server provides different styles of input
SUNWximx	X Input Method server provides different styles of input
SUNWxwacx	AccessX client program
SUNWxwcfnt	X Window System optional fonts
SUNWxwctl	Font support library for Type1/CID fonts
SUNWxwdv	Kernel device drivers for X Window System
SUNWxwdvx	64-bit kernel device drivers for X Window System
SUNWxwfont	X Window System Fonts (required fonts)
SUNWxwfs	OpenWindows font server
SUNWxwice	OpenWindows ICE library and iceauth
SUNWxwicx	X Window System ICE 64-bit library
SUNWxwkey	X Window System software, PC key tables

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWxwmod	Kernel modules required to run the OpenWindows product
SUNWxwoft	X Window System optional fonts
SUNWxwopt	Nonessential MIT core clients and server extensions
SUNWxwplt	X Window System platform software (server, DPS, extensions, Xlib, required and common MIT clients)
SUNWxwplx	X Window System 64-bit library software
SUNWxwpsr	X server modules optimized for sun4u platform; this package is not required for non-sun4u platforms; but installing this package will not affect the working of server on non-sun4u platforms
SUNWxwrtl	X Window System and Graphics Runtime library links
SUNWxwrtx	X Window System 64-bit Library Links in <code>/usr/lib/sparcv9</code>
SUNWxwslx	X Window System 64-bit lint libraries for programmers
TSBWvplr.m	Toshiba platform links
TSBWvplr.u	Toshiba platform links
TSBWvplu.m	Toshiba <code>usr/platform</code> links
TSBWvplu.u	Toshiba <code>usr/platform</code> links
TSIpgx.u	Device driver for PGX32 (Raptor GFX) graphics accelerator
TSIpgx.us	Device driver for PGX32 (Raptor GFX) graphics accelerator
TSIpgxw	X Server loadable module for PGX32 (Raptor GFX) graphics accelerator
TSIpgxx.u	Device driver for PGX32 (Raptor GFX) graphics accelerator (64-bit)
TSIpgxx.us	Device driver for PGX32 (Raptor GFX) graphics accelerator (64-bit)

**TABLE A-1** Packages on the Solaris 8 Software 1 of 2 SPARC Platform Edition CD *(continued)*

<b>This Package</b>	<b>Contains</b>
TWSvplr.u	TWS platform links
TWSvplu.u	TWS usr/platform links



## Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD

This appendix lists and describes the packages included on the CD labeled Solaris 8 Software 2 of 2 SPARC Platform Edition.

**TABLE B-1** Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD

<b>This package</b>	<b>Contains</b>
SUNWaccr	Utilities for accounting and reporting of system activity
SUNWaccu	Utilities for accounting and reporting of system activity
SUNWapchd	The Apache HTTP server (documentation)
SUNWapchr	The Apache HTTP server program (root components)
SUNWapchu	The Apache HTTP server program (usr components)
SUNWapppr	Configuration files for the daemon implementing asynchronous point-to-point protocol (PPP)
SUNWapppu	Login service and the daemon implementing asynchronous point-to-point protocol (PPP)
SUNWarc	System libraries in archive (ar) format for software development of statically linked executables

**TABLE B-1** Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition  
CD (continued)

<b>This package</b>	<b>Contains</b>
SUNWarcx	System libraries in archive (ar) format for software development of statically linked executables
SUNWast	Administrative utilities for improving system security by monitoring or restricting access to system files and directories
SUNWaudh	SunOS C/C++ header files for audio drivers and applications
SUNWaudmo	Audio demo programs, libraries, and sounds
SUNWbash	GNU Bourne-Again shell (bash)
SUNWbashS	Source for the GNU Bourne-Again shell (bash)
SUNWbnur	Configuration and start-up files for UUCP utilities
SUNWbnuu	UUCP utilities and daemon
SUNWbtool	Software development utilities, including ar, dis, dump, elfdump, lex, lorder, mcs, nm, prof, ranlib, rpcgen, size, strip, tsort, and yacc
SUNWbtoox	64-bit libraries for software development utilities, including lex and yacc
SUNWbzip	The bzip compression utility
SUNWbzipS	Source for the bzip compression utility
SUNWbzipx	The bzip compression library (64-bit)
SUNWcg6h	SunOS C/C++ header files for development of software for the GX frame buffer
SUNWcpc.u	Kernel support for CPU Performance Counters
SUNWcpc.us	Kernel support for CPU Performance Counters
SUNWcpcu	CPU Performance Counter libraries and utilities



**TABLE B-1** Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD (continued)

<b>This package</b>	<b>Contains</b>
SUNWcpcux	CPU Performance Counter libraries and utilities (64-bit)
SUNWcpcx.u	Kernel support for CPU Performance Counters (64-bit)
SUNWcpcx.us	Kernel support for CPU Performance Counters (64-bit)
SUNWcstl	Apptrace utility for application tracing, including shared objects
SUNWcstlx	Apptrace shared objects (64-bit)
SUNWdfbh	SunOS C/C++ header files for development of software for dumb frame buffers
SUNWdhcm	Graphical management interface for the DHCP server
SUNWdhcsr	root file system portion of the SunOS BOOTP/DHCP service, which uses the BOOT Protocol and/or Dynamic Host Configuration Protocol to provide network configuration parameters to BOOTP/DHCP clients; administration utilities for the service are included
SUNWdhcsu	usr file system portion of the SunOS BOOTP/DHCP service, which uses the BOOT Protocol and/or Dynamic Host Configuration Protocol to provide network configuration parameters to BOOTP/DHCP clients; administration utilities for the service are included
SUNWdial	Streams module for the dials and buttons devices
SUNWdialh	Header files for the dials and buttons devices
SUNWdialx	Streams module for the dials and buttons devices (64-bit)
SUNWdpl	System libraries compiled with profiling for software development performance measurement
SUNWdplx	64-bit system libraries compiled with profiling for software development performance measurement
SUNWdtab	CDE Desktop Application Builder
SUNWtdem	CDE Demos

**TABLE B-1** Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD (continued)

<b>This package</b>	<b>Contains</b>
SUNWdthed	CDE Help Developer Environment
SUNWdtinc	CDE Include files
SUNWdtma	Manual pages for the Common Desktop Environment, CDE
SUNWdtmad	Common Desktop Environment (CDE) Developer manual pages
SUNWdtmaz	Manual pages for Address Manager, Process Manager, File Finder, Perfimeter, Workstation Info
SUNWebnfs	Java packages for WebNFS
SUNWfac	Utilities and resources for a Form and Menu Language Interpreter (FMLI) execution environment
SUNWfnx5	Federated Naming Service (XFN) - support for X.500 Directory
SUNWfnx5x	Federated Naming Service (XFN) - support for X.500 Directory (64-bit)
SUNWglt	Layout Table Generation Utility
SUNWgpch	The GNU Patch utility
SUNWgpchS	Source for the GNU Patch utility
SUNWgzip	The GNU Zip ( <i>gzip</i> ) compression utility
SUNWgzipS	Source for the GNU Zip ( <i>gzip</i> ) compression utility
SUNWhea	SunOS C/C++ header files for general development of software
SUNWifph	SunOS Header Files for QLogic FC-AL Family
SUNWj2dev	Tools and utilities including javac, jdb, javadoc, rmiregistry
SUNWj2man	Man pages

**TABLE B-1** Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD *(continued)*

<b>This package</b>	<b>Contains</b>
SUNWjvdem	JavaVM demo programs
SUNWjvdev	JavaVM developers packages, includes javac, javah, and javap
SUNWjvman	JavaVM man pages
SUNWkcspf	Kodak Color Management System Runtime
SUNWkcspg	Kodak Color Management System Runtime Demos
SUNWkcspx	Kodak Color Management System Runtime Demos for 64-bit
SUNWksrta	Kodak Color Management System Runtime
SUNWksrx	Kodak Color Management System Runtime for 64-bit OS
SUNWless	The GNU pager (less)
SUNWlessS	Source for the GNU pager (less)
SUNWlibm	Sun WorkShop Bundled libm
SUNWlldap	Ldap libraries in for software development of dynamically linked executables
SUNWlmx	Sun WorkShop Bundled misc. 64-bit libm files
SUNWman	System Reference Manual Pages
SUNWmdb	Modular Debugger (MDB)
SUNWmdbx	Modular Debugger (MDB) (64-bit)
SUNWmfdev	Motif UIL compiler
SUNWmfman	CDE Motif Manuals

**TABLE B-1** Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD (continued)

<b>This package</b>	<b>Contains</b>
SUNWmkcd	CD creation utilities
SUNWmkcdS	Source for the CD creation utilities
SUNWncar	Core components to enable the network cache and accelerator
SUNWncarx	Core components to enable the network cache and accelerator (64-bit)
SUNWncau	Components to enable the network cache and accelerator
SUNWoladd	OPEN LOOK Alternate Desktop Demos
SUNWoldem	OPEN LOOK demo programs
SUNWoldim	Graphics files in various formats
SUNWolinc	OPEN LOOK include files
SUNWolman	OPEN LOOK toolkit/desktop users man pages
SUNWolslb	OPEN LOOK toolkit/desktop static and lint libraries for programmers
SUNWolsrc	OPEN LOOK example source code for programmers
SUNWosdem	Source code to demonstrate the use of OS interfaces: ELF
SUNWpdu	SunOS C/C++ header files for development of software for the PCI bus on SPARC platforms
SUNWp15m	Perl 5 Reference Manual Pages
SUNWp15p	POD documentation for Perl 5 programming language
SUNWpmowm	Power Management OW Utilities Man Pages
SUNWpppk	Kernel device drivers implementing asynchronous point-to-point protocol (PPP)

**TABLE B-1** Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD *(continued)*

<b>This package</b>	<b>Contains</b>
SUNWpppkx	64-bit kernel device drivers implementing asynchronous point-to-point protocol (PPP)
SUNWpstl.u	Apptrace processor specific shared objects
SUNWpstl.us	Apptrace processor specific shared objects
SUNWpstlx.u	Apptrace processor specific shared objects (64-bit)
SUNWpstlx.us	Apptrace processor specific shared objects (64-bit)
SUNWqfedu	Sun Quad FastEthernet PCI/SBus Adapter Headers
SUNWrpm	Utilities for processing RPM archives
SUNWrtvc	Device driver for the SunVideo real-time video capture and compression card
SUNWrtvc1	XIL loadable pipelines for SunVideo capture and compression
SUNWrtvcu	Header files, and examples for SunVideo capture and compression
SUNWrtvcx	Device driver for the SunVideo real-time video capture and compression card (64-bit)
SUNWsadml	Solstice launcher and associated libraries
SUNWscpux	Utilities for user interface and source build compatibility with SunOS 4.x
SUNWsprot	Solaris Bundled tools
SUNWsprox	Sun Workshop Bundled 64-bit make library
SUNWsra	Libraries in archive (ar) format for source build compatibility with SunOS 4.x
SUNWsrh	SunOS C/C++ header files for source build compatibility with SunOS 4.x

**TABLE B-1** Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD (continued)

<b>This package</b>	<b>Contains</b>
SUNWsutl	Statically linked utilities for system disaster recovery
SUNWtcsh	Tenex C-shell (tcsh)
SUNWtcshS	Source for the Tenex C-shell (tcsh)
SUNWter	Extensive terminfo database entries describing capabilities of terminals and pseudoterminals
SUNWtltkd	ToolTalk static library and include files for programmers
SUNWtltkm	ToolTalk manual pages for ToolTalk programmers, OpenWindows users, and Common Desktop Environment (CDE) users
SUNWtnfc	Utilities needed to enable probe points, in the kernel and in applications, that can generate Trace Normal Format (TNF) records in a trace file
SUNWtnfcx	64-bit utilities needed to enable probe points, in the kernel and in applications, that can generate Trace Normal Format (TNF) records in a trace file
SUNWtnfd	Utilities needed by developers using Trace Normal Format (TNF) facilities
SUNWucbt	Appttrace shared objects for UCB compatibility libraries
SUNWucbtx	Appttrace shared objects for UCB compatibility libraries (64-bit)
SUNWusbu	USB Headers
SUNWxcu4t	XCU4 Compliant Versions of make and sccs utilities
SUNWxilh	XIL API Header files
SUNWxwdem	X Window System demo programs
SUNWxwdim	Graphics files in various formats
SUNWxwdxm	DPS MOTIF library

**TABLE B-1** Packages on the Solaris 8 Software 2 of 2 SPARC Platform Edition CD (continued)

<b>This package</b>	<b>Contains</b>
SUNWxwfa	Font Administration application for Solaris platforms
SUNWxwhl	X Window System and Graphics Header links in /usr/include
SUNWxwinc	X Window System include files
SUNWxwman	X Window System online user man pages
SUNWxwpmn	X Window System online programmers man pages
SUNWxwslb	X Window System static and lint libraries for programmers
SUNWxwsrc	X Window System example source code for programmers
SUNWypr	NIS Server for Solaris 2.6 and up
SUNWypu	NIS Server for Solaris 2.6 and up
SUNWzip	The Info-Zip (zip) compression utility
SUNWzipS	Source for the Info-Zip (zip) compression utility
SUNWzlib	The Zip compression library
SUNWzlibS	Source for the Zip compression library
SUNWzlibx	The Info-Zip compression library (64-bit)
SUNWzsh	Z shell (zsh)
SUNWzshS	Source for the Z shell (zsh)





## Packages on the Solaris 8 Languages SPARC Platform Edition CD

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This appendix lists and describes the packages included on the CD labeled Solaris 8 Languages SPARC Platform Edition, by language.

**TABLE C-1** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Simplified Chinese

<b>This Package</b>	<b>Contains</b>
NSCPccom	Simplified Chinese localization of Netscape Communicator 4.7 supporting International security
NSCPcucom	Zh.UTF-8 localization of Netscape Communicator 4.7 supporting International security
NSCPgcom	Zh.GBK localization of Netscape Communicator 4.7 supporting International security
SUNWcadis	Simplified Chinese (EUC) Localizations for Admintool and GUI install
SUNWcadma	Simplified Chinese (EUC) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNWhadis packages for Simplified Chinese (EUC) localization
SUNWcbcp	Simplified Chinese (EUC) Language Environment binary compatibility files
SUNWcdab	Simplified Chinese (EUC) Localizations for CDE Desktop Application Builder

**TABLE C-1** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Simplified Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWcdbas	Simplified Chinese (EUC) Localizations for CDE Base functionality
SUNWcddst	Simplified Chinese (EUC) Localizations for CDE Desktop Applications
SUNWcddte	Simplified Chinese (EUC) Localizations for CDE Desktop Login Environment
SUNWcdezt	Simplified Chinese (EUC) Localizations for Desktop Power Pack Applications
SUNWcdfst	Simplified Chinese (EUC) Localizations for CDE Fonts
SUNWcdhe	Simplified Chinese (EUC) Localizations for CDE Help Runtime environment
SUNWcdhev	Simplified Chinese (EUC) CDE Help Volumes
SUNWcdhez	Simplified Chinese (EUC) (Common) Desktop Power Pack Help Volumes
SUNWcdicn	Simplified Chinese (EUC) Localizations for CDE Icons
SUNWcdim	Simplified Chinese (EUC) Localizations for CDE Imagetool
SUNWcdwm	Simplified Chinese (EUC) Localizations for CDE Desktop Window Manager
SUNWcepmw	Simplified Chinese (EUC) Localization for Power Management OW Utilities
SUNWcervl	Simplified Chinese (EUC) SunVideo Runtime Support Software
SUNWcexir	Simplified Chinese (EUC) XIL Runtime Environment
SUNWcj2p	Simplified Chinese localization of Java Plug-In 1.2.2
SUNWcj2rt	Java virtual machine and core class libraries (Simplified Chinese supplement)
SUNWcjvdv	Simplified Chinese Localizations for JavaVM developers package

**TABLE C-1** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Simplified Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWcjvrt	Simplified Chinese Localizations for JavaVM Runtime environment
SUNWckcsr	Simplified Chinese (EUC) KCMS Runtime Environment
SUNWcleue	Simplified Chinese (EUC) Language Environment specific files; it is a required package to run Simplified Chinese (EUC) Language Environment
SUNWcoaud	Simplified Chinese (EUC) OPEN LOOK Audio Applications Package
SUNWcodcv	Simplified Chinese (EUC) OPEN LOOK Document and Help Viewer Applications Package
SUNWcodem	Simplified Chinese (EUC) OPEN LOOK Demo Programs Package
SUNWcodst	Simplified Chinese (EUC) OPEN LOOK Deskset Tools Package
SUNWcodte	Simplified Chinese (EUC) Core OPEN LOOK Desktop Package
SUNWcoimt	Simplified Chinese (EUC) OPEN LOOK Imagetool Package
SUNWcoman	Simplified Chinese (EUC) OPEN LOOK Toolkit/Desktop Users Man Pages Package
SUNWcorte	Simplified Chinese (EUC) OPEN LOOK Toolkits Runtime Environment Package
SUNWcpdas	Simplified Chinese Localization for tools to synchronize desktop applications with the Palm Pilot PDA
SUNWcrdm	Simplified Chinese (EUC) OILBN ReadMe Directory
SUNWcreg	Simplified Chinese (EUC) Localizations for Solaris User Registration
SUNWcsadl	Simplified Chinese (EUC) Localizations for Solstice Admintool launcher and associated libraries
SUNWctltk	Simplified Chinese (EUC) ToolTalk Runtime Package Package
SUNWcttfe	Simplified Chinese (EUC) True Type Fonts

**TABLE C-1** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Simplified Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWcuada	Simplified Chinese (UTF-8) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNWgadis packages for Simplified Chinese (UTF-8) localization
SUNWcuadi	Simplified Chinese (UTF-8) Localizations for Admintool and GUI install
SUNWcubas	Simplified Chinese (UTF-8) Localizations for CDE Base functionality
SUNWcudab	Simplified Chinese (UTF-8) Localizations for CDE Desktop Application Builder
SUNWcudc	Simplified Chinese (EUC) Localizations for User Defined Character tool for Solaris CDE environment
SUNWcudez	Simplified Chinese (UTF-8) Localizations for Desktop Power Pack Applications
SUNWcudft	Simplified Chinese (UTF-8) Localizations for CDE Fonts
SUNWcudhe	Simplified Chinese (UTF-8) Localizations for CDE Help Runtime environment
SUNWcudhv	Simplified Chinese (UTF-8) CDE Help Volumes
SUNWcudhz	Simplified Chinese (UTF-8) Localizations for Desktop Power Pack Help Volumes
SUNWcudic	Simplified Chinese (UTF-8) Localizations for CDE Icons
SUNWcudim	Simplified Chinese (UTF-8) L10N for CDE Desktop Imagetool
SUNWcudst	Simplified Chinese (UTF-8) Localizations for CDE Desktop Applications
SUNWcudte	Simplified Chinese (UTF-8) Localizations for CDE Desktop Login Environment
SUNWcudwm	Simplified Chinese (UTF-8) Localizations for CDE Desktop Window Manager
SUNWculee	Simplified Chinese (UTF-8) Language Environment specific files; it is a required package to run Simplified Chinese (UTF-8) Language Environment

**TABLE C-1** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Simplified Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWcuman	Simplified Chinese (UTF-8) X Window System Online User Man Pages Package
SUNWcuodt	Simplified Chinese (UTF-8) Core OPEN LOOK Desktop Package
SUNWcupmw	Simplified Chinese (UTF-8) Localization for Power Management OW Utilities
SUNWcurdm	Simplified Chinese (UTF-8) OILBN ReadMe Directory
SUNWcureg	Simplified Chinese (UTF-8) Localizations for Solaris User Registration
SUNWcusad	Simplified Chinese (UTF-8) Localizations for Solstice Admintool launcher and associated libraries
SUNWcuudc	Simplified Chinese (UTF-8) Localizations for User Defined Character tool for Solaris CDE environment
SUNWcuxe	Simplified Chinese (UTF-8) X Window System Platform Software Package
SUNWcwbcp	Simplified Chinese (EUC) OpenWindows Binary Compatibility Package
SUNWcwsr	Simplified Chinese (EUC) product registry 2.0 localizable text resources
SUNWcxe	Simplified Chinese (EUC) X Window System Platform Software Package
SUNWcxfont	Simplified Chinese (EUC) X Window System Platform Required Fonts
SUNWcxman	Simplified Chinese (EUC) X Window System Online User Man Pages Package
SUNWcxoft	Simplified Chinese (EUC) X Window System Optional Fonts Package
SUNWgadis	Simplified Chinese (GBK) Localizations for Admintool and GUI install
SUNWgadma	Simplified Chinese (GBK) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNWgadis packages for Simplified Chinese (GBK) localization

**TABLE C-1** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Simplified Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWgdab	Simplified Chinese (GBK) Localizations for CDE Desktop Application Builder
SUNWgdbas	Simplified Chinese (GBK) Localizations for CDE Base functionality
SUNWgddst	Simplified Chinese (GBK) Localizations for CDE Desktop Applications
SUNWgddte	Simplified Chinese (GBK) Localizations for CDE Desktop Login Environment
SUNWgdez	Simplified Chinese (GBK) Localizations for Desktop Power Pack Applications
SUNWgdf	Simplified Chinese (GBK) Localizations for CDE Fonts
SUNWgdhe	Simplified Chinese (GBK) Localizations for CDE Help Runtime environment
SUNWgdhev	Simplified Chinese (GBK) CDE Help Volumes
SUNWgdhez	Simplified Chinese (GBK) Localizations for Desktop Power Pack Help Volumes
SUNWgdicn	Simplified Chinese (GBK) Localizations for CDE Icons
SUNWgdim	Simplified Chinese (GBK) L10N for CDE Desktop Imagetool
SUNWgdwm	Simplified Chinese (GBK) Localizations for CDE Desktop Window Manager
SUNWgleue	Simplified Chinese (GBK) Language Environment specific files; it is a required package to run Simplified Chinese (GBK) Language Environment
SUNWgodte	Simplified Chinese (GBK) Core OPEN LOOK Desktop Package
SUNWgpmw	Simplified Chinese (GBK) Localization for Power Management OW Utilities
SUNWgrdm	Simplified Chinese (GBK) OILBN ReadMe Directory
SUNWgreg	Simplified Chinese (GBK) Localizations for Solaris User Registration

**TABLE C-1** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Simplified Chinese (continued)

<b>This Package</b>	<b>Contains</b>
SUNWgsadl	Simplified Chinese (GBK) Localizations for Solstice Admintool launcher and associated libraries
SUNWgttfe	Simplified Chinese (GBK) True Type Fonts
SUNWgudc	Simplified Chinese (GBK) Localizations for User Defined Character tool for Solaris CDE environment
SUNWgxe	Simplified Chinese (GBK) X Window System Platform Software Package
SUNWgxman	Simplified Chinese (GBK) X Window System Online User Man Pages Package

**TABLE C-2** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Traditional Chinese

<b>This Package</b>	<b>Contains</b>
NSCP5com	Zh_TW.BIG5 localization of Netscape Communicator 4.7 supporting International security
NSCP5com	Traditional Chinese localization of Netscape Communicator 4.7 supporting International security
NSCP5ucom	Zh_TW.UTF-8 localization of Netscape Communicator 4.7 supporting International security
SUNW5adi	Traditional Chinese Localizations for Admintool and GUI install
SUNW5adma	Traditional Chinese Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNW5adi packages for Localization
SUNW5dab	Traditional Chinese Localizations for CDE Desktop Application Builder
SUNW5dbas	Traditional Chinese Localizations for CDE Base functionality
SUNW5dst	Traditional Chinese Localizations for CDE Desktop Applications

**TABLE C-2** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Traditional Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNW5ddte	Traditional Chinese Localizations for CDE Desktop Login Environment
SUNW5dezt	Traditional Chinese (BIG5) Localizations for Desktop Power Pack Applications
SUNW5dft	Traditional Chinese Localizations for CDE Fonts
SUNW5dhe	Traditional Chinese Localizations for CDE Help Runtime environment
SUNW5dhev	Traditional Chinese CDE Help Volumes
SUNW5dhez	Traditional Chinese (Common BIG5) Localizations for Desktop Power Pack Help Volumes
SUNW5dicn	Traditional Chinese Localizations for CDE Icons
SUNW5dim	Traditional Chinese Localizations for CDE Imagetool
SUNW5dwm	Traditional Chinese Localizations for CDE Desktop Window Manager
SUNW5leue	Traditional Chinese Language Environment specific files; it is a required package to run Traditional Chinese BIG5 Language Environment
SUNW5odte	Traditional Chinese BIG5 Core OPEN LOOK Desktop Package
SUNW5pmw	Traditional Chinese BIG5 Localization for Power Management OW Utilities
SUNW5rdm	Traditional Chinese (BIG5) OILBN ReadMe Directory
SUNW5sadl	Traditional Chinese Localizations for Solstice Admintool launcher and associated libraries
SUNW5ttfe	Traditional Chinese True Type Fonts Package Extension
SUNW5udc	Traditional Chinese (BIG5) Localizations for User Defined Character tool for Solaris CDE environment
SUNW5xfnt	Traditional Chinese BIG5 X Window System Platform Required Fonts Package



**TABLE C-2** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Traditional Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWhadis	Traditional Chinese (EUC) Localizations for Admintool and GUI install
SUNWhadma	Traditional Chinese (EUC) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNWhadis packages for Traditional Chinese (EUC) localization
SUNWhbcp	Traditional Chinese Language Environment binary compatibility files
SUNWhdab	Traditional Chinese Localizations for CDE Desktop Application Builder
SUNWhdbas	Traditional Chinese Localizations for CDE Base functionality
SUNWhddst	Traditional Chinese Localizations for CDE Desktop Applications
SUNWhddte	Traditional Chinese Localizations for CDE Desktop Login Environment
SUNWhdez	Traditional Chinese (EUC) Localizations for Desktop Power Pack Applications
SUNWhdft	Traditional Chinese Localizations for CDE Fonts
SUNWhdhe	Traditional Chinese Localizations for CDE Help Runtime environment
SUNWhdhev	Traditional Chinese CDE Help Volumes
SUNWhdhez	Traditional Chinese (Common) Localizations for Desktop Power Pack Help Volumes
SUNWhdicn	Traditional Chinese Localizations for CDE Icons
SUNWhdim	Traditional Chinese Localizations for CDE Imagetool
SUNWhdwm	Traditional Chinese Localizations for CDE Desktop Window Manager
SUNWhepmw	Traditional Chinese (EUC) Localization for Power Management OW Utilities
SUNWhervl	Traditional Chinese (EUC) SunVideo Runtime Support Software

**TABLE C-2** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Traditional Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWhexir	Traditional Chinese (EUC) XIL Runtime Environment
SUNWhj2p	Traditional Chinese localization of Java Plug-In 1.2.2
SUNWhj2rt	Java virtual machine and core class libraries (Traditional Chinese supplement)
SUNWhjvdv	Traditional Chinese Localizations for JavaVM developers package
SUNWhjvrt	Traditional Chinese Localizations for JavaVM Runtime environment
SUNWhkcsr	Traditional Chinese (EUC) KCMS Runtime Environment
SUNWhleue	Traditional Chinese Language Environment specific files; it is a required package to run Traditional Chinese Language Environment
SUNWhoaud	Traditional Chinese OPEN LOOK Audio Applications Package
SUNWhodcv	Traditional Chinese OPEN LOOK Document and Help Viewer Applications Package
SUNWhodem	Traditional Chinese OPEN LOOK Demo Programs Package
SUNWhodst	Traditional Chinese OPEN LOOK Deskset Tools Package
SUNWhodte	Traditional Chinese Core OPEN LOOK Desktop Package
SUNWhoimt	Traditional Chinese OPEN LOOK Imagetool Package
SUNWhoman	Traditional Chinese OPEN LOOK Toolkit/Desktop Users Man Pages Package
SUNWhorte	Traditional Chinese OPEN LOOK Toolkits Runtime Environment Package
SUNWhpdas	Traditional Chinese Localization for tools to synchronize desktop applications with the Palm Pilot PDA
SUNWhrdm	Traditional Chinese (EUC) OILBN ReadMe Directory

**TABLE C-2** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Traditional Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWhreg	Traditional Chinese Localizations for Solaris User Registration
SUNWhsadl	Traditional Chinese (EUC) Localizations for Solstice Admintool launcher and associated libraries
SUNWhtltk	Traditional Chinese ToolTalk Runtime Package Package
SUNWhttfe	Traditional Chinese True Type optional Fonts Package Extension
SUNWhuada	Traditional Chinese (UTF-8) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNW5adi packages for Localization
SUNWhuadi	Traditional Chinese (UTF-8) Localizations for Admintool and GUI install
SUNWhubas	Traditional Chinese (UTF-8) Localizations for CDE Base functionality
SUNWhuccd	Traditional Chinese Console Display Environment specific files; it is a required package to run Traditional Chinese Console Display Environment
SUNWhudab	Traditional Chinese (UTF-8) Localizations for CDE Desktop Application Builder
SUNWhudc	Traditional Chinese (EUC) Localizations for User Defined Character tool for Solaris CDE environment
SUNWhudez	Traditional Chinese (UTF-8) Localizations for Desktop Power Pack Applications
SUNWhudft	Traditional Chinese (UTF-8) Localizations for CDE Fonts
SUNWhudhe	Traditional Chinese (UTF-8) Localizations for CDE Help Runtime environment
SUNWhudhv	Traditional Chinese (UTF-8) CDE Help Volumes
SUNWhudhz	Traditional Chinese (Common UTF-8) Localizations for Desktop Power Pack Help Volumes
SUNWhudic	Traditional Chinese (UTF-8) Localizations for CDE Icons

**TABLE C-2** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Traditional Chinese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWhudim	Traditional Chinese (UTF-8) Localizations for CDE Imagetool
SUNWhudst	Traditional Chinese (UTF-8) Localizations for CDE Desktop Applications
SUNWhudte	Traditional Chinese (UTF-8) Localizations for CDE Desktop Login Environment
SUNWhudwm	Traditional Chinese (UTF-8) Localizations for CDE Desktop Window Manager
SUNWhulee	Traditional Chinese (UTF-8) Language Environment specific files; it is a required package to run Traditional Chinese UTF-8 Language Environment
SUNWhuodt	Traditional Chinese UTF-8 Core OPEN LOOK Desktop Package
SUNWhupmw	Traditional Chinese UTF-8 Localization for Power Management OW Utilities
SUNWhurdm	Traditional Chinese (UTF-8) OILBN ReadMe Directory
SUNWhusad	Traditional Chinese (UTF-8) Localizations for Solstice Admintool launcher and associated libraries
SUNWhuudc	Traditional Chinese (UTF-8) Localizations for User Defined Character tool for Solaris CDE environment
SUNWhwbcp	Traditional Chinese OpenWindows Binary Compatibility Package
SUNWhwsr	Traditional Chinese product registry 2.0 localizable text resources
SUNWhxe	Traditional Chinese X Window System Platform Software Package
SUNWhxman	Traditional Chinese X Window System Online User Man Pages Package

**TABLE C-3** Packages on the Solaris 8 Languages SPARC Platform Edition CD: French

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<b>This Package</b>	<b>Contains</b>
NSCPfrcdo	French localization of Netscape Communicator 4.7 supporting U.S. security
NSCPfrcom	French localization of Netscape Communicator 4.7 supporting International security
SUNWf8bas	Base L10N fr CDE functionality to run a CDE application
SUNWf8dst	CDE Desktop Applications
SUNWf8dte	CDE Desktop Environment
SUNWf8he	CDE Help L10N fr Runtime Environment
SUNWf8im	CDE Desktop applications
SUNWf8wm	French UTF-8 CDE Desktop Window Manager Messages
SUNWfbcp	French OS Binary Compatibility Package
SUNWfj2rt	Java virtual machine and core class libraries (French supplement)
SUNWfjvdv	French Localizations for JavaVM developers package
SUNWfjvrt	French Localizations for JavaVM Runtime environment
SUNWfoaud	French OPEN LOOK Audio applications
SUNWfobk	French OpenWindows online handbooks
SUNWfodcv	French OPEN LOOK document and help viewer applications
SUNWfodem	French OPEN LOOK demo programs
SUNWfodst	French OPEN LOOK deskset tools
SUNWfodte	French OPEN LOOK desktop environment
SUNWfoimt	French OPEN LOOK imagetool

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**TABLE C-3** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
French *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWforte	French OPEN LOOK toolkits Runtime environment
SUNWfpdas	French tools to synchronize desktop applications with the Palm Pilot PDA
SUNWfrbas	Base L10N fr CDE functionality to run a CDE application
SUNWfrdst	CDE Desktop Applications
SUNWfrdte	CDE Desktop Environment
SUNWfrhe	CDE Help L10N fr Runtime Environment
SUNWfrhed	CDE L10N fr Help Developer Environment
SUNWfrhev	CDE Help Volumes
SUNWfrim	CDE Desktop applications
SUNWfrj2p	French localization of Java Plug-In 1.2.2
SUNWfros	Localizable message files for the OS-Networking consolidation
SUNWfrpmw	French (EUC) Localizations for Power Management OW Utilities
SUNWfrreg	Solaris User Registration prompts at desktop login for user registration
SUNWfrwm	French CDE Desktop Window Manager Messages
SUNWftltk	French ToolTalk binaries and shared libraries
SUNWfwacx	French OPEN LOOK AccessX
SUNWfwbcp	French OpenWindows Binary Compatibility Package

**TABLE C-3** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
French *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWfwsr	Prodreg 2.0 localizable text resources
SUNWfxplt	French X Window System platform software

**TABLE C-4** Packages on the Solaris 8 Languages SPARC Platform Edition CD: German

<b>This Package</b>	<b>Contains</b>
NSCPdecom	German localization of Netscape Communicator 4.7 supporting International security
SUNWd8bas	Base L10N German UTF-8 CDE functionality to run a CDE application
SUNWd8dst	CDE Desktop Applications
SUNWd8dte	CDE Desktop Login Environment
SUNWd8he	CDE Help L10N German UTF-8 Runtime Environment
SUNWd8im	CDE Desktop applications
SUNWd8wm	German UTF-8 CDE Desktop Window Manager Messages
SUNWdbcp	German OS Binary Compatibility Package
SUNWdebas	Base L10N German CDE functionality to run a CDE application
SUNWdedst	CDE Desktop Applications
SUNWdedte	CDE Desktop Login Environment
SUNWdehe	CDE Help L10N German Runtime Environment
SUNWdehed	CDE L10N German Help Developer Environment

**TABLE C-4** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
German (continued)

<b>This Package</b>	<b>Contains</b>
SUNWdehev	CDE Help Volumes
SUNWdeim	CDE Desktop applications
SUNWdej2p	German localization of Java Plug-In 1.2.2
SUNWdeos	Localizable message files for the OS/Networking consolidation
SUNWdepmw	German (EUC) Localizations for Power Management OW Utilities
SUNWdereg	Solaris User Registration prompts at desktop login for user registration
SUNWdewm	German CDE Desktop Window Manager Messages
SUNWdj2rt	Java virtual machine and core class libraries (German supplement)
SUNWdjvdv	German Localizations for JavaVM developers package
SUNWdjvrt	German Localizations for JavaVM Runtime environment
SUNWdoaud	German OPEN LOOK Audio applications
SUNWdobk	German OpenWindows online handbooks
SUNWdodcv	German OPEN LOOK document and help viewer applications
SUNWdodem	German OPEN LOOK demo programs
SUNWdodst	German OPEN LOOK deskset tools
SUNWdodte	German OPEN LOOK desktop environment
SUNWdoimt	German OPEN LOOK imagetool
SUNWdorte	German OPEN LOOK toolkits Runtime environment



**TABLE C-4** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
German (continued)

<b>This Package</b>	<b>Contains</b>
SUNWdpdas	German tools to synchronize desktop applications with the Palm Pilot PDA
SUNWdtltk	German ToolTalk binaries and shared libraries
SUNWdwacx	German OPEN LOOK AccessX
SUNWdwbcp	German OpenWindows Binary Compatibility Package
SUNWdwsr	Prodreg 2.0 localizable text resources
SUNWdxplt	German X Window System platform software

**TABLE C-5** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Italian

<b>This Package</b>	<b>Contains</b>
NSCPitcom	Italian localization of Netscape Communicator 4.7 supporting International security
SUNWi8bas	Base L10N it CDE functionality to run a CDE application
SUNWi8dst	CDE it Desktop Applications messages
SUNWi8dte	CDE Italian UTF-8 Desktop Login Environment
SUNWi8he	CDE Help L10N it Runtime Environment
SUNWi8im	CDE Italian UTF-8 Desktop Image editor
SUNWi8wm	Italian UTF-8 CDE Desktop Window Manager Messages
SUNWibcp	Italian OS Binary Compatibility Package
SUNWij2rt	Java virtual machine and core class libraries (Italian supplement)

**TABLE C-5** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Italian *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWijvdv	Italian Localizations for JavaVM developers package
SUNWijvrt	Italian Localizations for JavaVM Runtime environment
SUNWioaud	Italian OPEN LOOK Audio applications
SUNWiobk	Italian OpenWindows online handbooks
SUNWiodcv	Italian OPEN LOOK document and help viewer applications
SUNWiodem	Italian OPEN LOOK demo programs
SUNWiodst	Italian OPEN LOOK deskset tools
SUNWiodte	Italian OPEN LOOK desktop environment
SUNWioimt	Italian OPEN LOOK imagetool
SUNWiorte	Italian OPEN LOOK toolkits Runtime environment
SUNWipdas	Italian tools to synchronize desktop applications with the Palm Pilot PDA
SUNWitbas	Base L10N it CDE functionality to run a CDE application
SUNWitdst	CDE it Desktop Applications messages
SUNWitdte	CDE Italian Desktop Login Environment
SUNWithe	CDE Help L10N it Runtime Environment
SUNWithed	CDE L10N it Help Developer Environment
SUNWithev	CDE Help Volumes
SUNWitim	CDE Italian Desktop Image editor

**TABLE C-5** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Italian (continued)

<b>This Package</b>	<b>Contains</b>
SUNWitj2p	Italian localization of Java Plug-In 1.2.2
SUNWitltk	Italian ToolTalk binaries and shared libraries
SUNWitos	Localizable message files for the OS-Networking consolidation
SUNWitpmw	Italian (EUC) Localizations for Power Management OW Utilities
SUNWitreg	Solaris User Registration prompts at desktop login for user registration
SUNWitwm	Italian CDE Desktop Window Manager Messages
SUNWiwacx	Italian OPEN LOOK AccessX
SUNWiwbcx	Italian OpenWindows Binary Compatibility Package
SUNWiwsr	Product registry 2.0 localizable text resources
SUNWixplt	Italian X Window System platform software

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Japanese

<b>This Package</b>	<b>Contains</b>
JSat8xw	Japanese Input System ATOK8 for Japanese Solaris
JSatsvr	Japanese Input System ATOKserver <code>root</code> files for Japanese Solaris
JSatsvu	Japanese Input System ATOKserver <code>usr</code> files for Japanese Solaris
JSatsvw	Japanese Input System ATOKserver X11 support files for Japanese Solaris
NSCPjecom	Japanese (EUC) localization of Netscape Communicator 4.7 supporting International security

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese *(continued)*

<b>This Package</b>	<b>Contains</b>
NSCPjpcom	Japanese (PCK) localization of Netscape Communicator 4.7 supporting International security
NSCPjucom	Japanese (UTF-8) localization of Netscape Communicator 4.7 supporting International security
SUNWjadis	Japanese (EUC) Localizations for Admintool and GUI install
SUNWjadma	Japanese (EUC) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNWjadis packages for Japanese (EUC) localization
SUNWjaaj2p	Japanese localization of Java Plug-In 1.2.2
SUNWjbcpl	Japanese (EUC) utilities including libc and locale data to provide a binary-compatible execution environment for SunOS 4.x applications
SUNWjc0d	Japanese Kana-Kanji Conversion Server cs00 user dictionary maintenance tool for CDE Motif
SUNWjc0w	Japanese Kana-Kanji Conversion Server cs00 user dictionary maintenance tool for OPEN LOOK; this package is also required to use X Input Method Server on X Window System
SUNWjcs3f	Japanese JIS X0212 Type1 fonts for printing
SUNWjdab	Japanese (Common) Localization for CDE Desktop Application Builder
SUNWjdbas	Japanese (Common) Localization for CDE application basic Runtime environment
SUNWjddst	Japanese (EUC) Localization for CDE Desktop Applications
SUNWjddte	Japanese (EUC) Localization for Solaris Desktop Login Environment
SUNWjdhcm	Japanese Localizations for DHCP Manager
SUNWjdhe	Japanese (EUC) Localization for CDE Help Runtime environment
SUNWjdhed	Japanese (EUC) Localization for CDE Help Developer Environment

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese (continued)

<b>This Package</b>	<b>Contains</b>
SUNWjdhev	Japanese (Common) Localization for CDE Help Volumes
SUNWjdhez	Japanese (Common) Localizations for Desktop Power Pack Help Volumes
SUNWjdim	Japanese (EUC) Localization for Solaris CDE Image Viewer
SUNWjdrme	Japanese (EUC) Localization for Common Desktop Environment (CDE) release documentation
SUNWjdwmm	Japanese (EUC) Localization for CDE Desktop Window Manager
SUNWjeab	Japanese (EUC) Localization for CDE Desktop Application Builder
SUNWjebas	Japanese (EUC) Localization for CDE application basic Runtime environment
SUNWject	Japanese (EUC) Localizations for UTF-8 Code Conversion Tool
SUNWjedev	Japanese (EUC) Development Environment Package specific files
SUNWjeezt	Japanese (EUC) Localizations for Desktop Power Pack Applications
SUNWjehev	Japanese (EUC) Localization for CDE Help Volumes
SUNWjehez	Japanese (EUC) Localizations for Desktop Power Pack Help Volumes
SUNWjej2m	Japanese (EUC) man pages
SUNWjejmn	Japanese (EUC) JavaVM manual pages for Java programmers and users
SUNWjeman	Japanese Feature Package Man Pages to see Japanese (EUC) man pages for SUNWjfp <sub>r</sub> and SUNWjfp <sub>u</sub> and Japanese man pages for SUNWman and SUNWaled
SUNWjepmm	Japanese (EUC) Power Management OW Utilities Man Pages
SUNWjepmw	Japanese (EUC) Localizations for Power Management OW Utilities

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese (continued)

<b>This Package</b>	<b>Contains</b>
SUNWjervl	Japanese (EUC) Localizations for XIL loadable pipelines for SunVideo capture and compression
SUNWjeuce	Japanese (EUC) Feature Package specific files for <code>usr</code> ; it is an extended package to support EUC environment
SUNWjeudc	Japanese (EUC) Localizations for User Defined Character tool for Solaris CDE environment
SUNWjewnu	Japanese Input System - Wnn6 Messages, (EUC)
SUNWjexfa	Japanese (EUC) Localizations for Font Administration application for Solaris platforms
SUNWjexir	Japanese (EUC) localizations for XIL Runtime Environment
SUNWjfdl	Japanese Localization for Solaris Desktop Font Downloader for Adobe PostScript printers
SUNWjfppe	Stream modules for Japanese Feature Package (JFP); it is an extended package to run JFP environment
SUNWjfpue	Japanese Feature Package (JFP) specific files for <code>usr</code> ; it is an extended package to run JFP environment
SUNWjfxmn	English man pages of Japanese features for X Window System
SUNWjj2dv	Japanese Java virtual macTools and utilities including <code>javac</code> , <code>jdb</code> , <code>javadoc</code> , <code>rmiregistry</code>
SUNWjj2rt	Japanese Java virtual machine and core class libraries
SUNWjjmfp	Japanese Localization for JMF player
SUNWjjvdv	Japanese Localizations for JavaVM developers package
SUNWjjvrt	Japanese Localizations for JavaVM Runtime environment
SUNWjkcsr	Japanese (EUC) Localizations for Kodak Color Management System Runtime

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese (continued)

<b>This Package</b>	<b>Contains</b>
SUNWjlibj	Japanese specific library (/usr/lib/libjapanese.a), header, and transition kit
SUNWjmane	Japanese Feature Package Man Pages (Extension) to see English man pages for SUNWjfppe and SUNWjfpue
SUNWjmfrrn	Japanese (EUC) Localizations for Motif 1.2.3 Runtime Kit
SUNWjoaud	Japanese (EUC) Localizations for Audiotool and other auxiliary audio support
SUNWjodcv	Japanese (EUC) Localizations for OPEN LOOK document and help viewer applications
SUNWjodem	Japanese (EUC) Localizations for OPEN LOOK demo programs
SUNWjodst	Japanese (EUC) Localizations for OPEN LOOK deskset tools
SUNWjodte	Japanese (EUC) Localizations for OPEN LOOK Desktop Environment (olwm, props, wsinfo, etc.)
SUNWjoimt	Japanese (EUC) Localizations for OPEN LOOK imagetool
SUNWjorte	Japanese (EUC) Localizations for OPEN LOOK toolkits Runtime environment
SUNWjoumn	Japanese (EUC) OPEN LOOK toolkit/desktop users man pages
SUNWjpab	Japanese (PCK) Localization for CDE Desktop Application Builder
SUNWjpacx	Japanese (PCK) Localizations for AccessX client program
SUNWjpadi	Japanese (PCK) Localizations for Admintool and GUI install
SUNWjpadm	Japanese (PCK) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNWjpadi packages for Japanese (PCK) localization
SUNWjpbas	Japanese (PCK) Localization for CDE application basic Runtime environment

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese (continued)

<b>This Package</b>	<b>Contains</b>
SUNWjpcke	Japanese (PCK - PC Kanji Code) Feature Package specific files; it is a extended package to support PCK environment
SUNWjpct	Japanese (PCK) Localizations for UTF-8 Code Conversion Tool
SUNWjpdas	Japanese Localization for tools to synchronize desktop applications with the Palm Pilot PDA
SUNWjpdst	Japanese (PCK) Localization for CDE Desktop Applications
SUNWjpdte	Japanese (PCK) Localization for CDE Desktop Login Environment
SUNWjpez	Japanese (PCK) Localizations for Desktop Power Pack Applications
SUNWjphe	Japanese (PCK) Localization for CDE Help Runtime environment
SUNWjphed	Japanese (PCK) Localization for CDE Help Developer Environment
SUNWjphev	Japanese (PCK) Localization for CDE Help Volumes
SUNWjphez	Japanese (PCK) Localizations for Desktop Power Pack Help Volumes
SUNWjpim	Japanese (PCK) Localization for Solaris CDE Image Viewer
SUNWj2m	Japanese (PCK) man pages
SUNWjpmn	Japanese (PCK) JavaVM manual pages for Java programmers and users
SUNWjpkcs	Japanese (PCK) Localizations for Kodak Color Management System Runtime
SUNWjpman	Japanese Feature Package Man Pages to see Japanese (PCK) man pages for SUNWjfp <sub>r</sub> and SUNWjfp <sub>u</sub> and Japanese man pages for SUNWman and SUNWaled
SUNWjpmfr	Japanese (PCK) Localizations for Motif 1.2.3 Runtime Kit
SUNWjppmm	Japanese (PCK) Power Management OW Utilities Man Pages



**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWjppmw	Japanese (PCK) Localizations for Power Management OW Utilities
SUNWjprdm	Japanese (PCK) OILBN ReadMe Directory
SUNWjprme	Japanese (PCK) Localization for Common Desktop Environment (CDE) release documentation
SUNWjprvl	Japanese (PCK) Localizations for XIL loadable pipelines for SunVideo capture and compression
SUNWjpsal	Japanese (PCK) Localizations for Solstice Admintool launcher and associated libraries
SUNWjptlm	Japanese (PCK) ToolTalk manual pages for ToolTalk programmers, OpenWindows users, and Common Desktop Environment (CDE) users
SUNWjptlt	Japanese (PCK) Localizations for ToolTalk binaries and shared libraries needed for Common Desktop Environment (CDE), OpenWindows, and all ToolTalk clients
SUNWjpuhc	Japanese (PCK) Localizations for User Defined Character tool for Solaris CDE environment
SUNWjpwmm	Japanese (PCK) Localization for CDE Desktop Window Manager
SUNWjpwnu	Japanese Input System - Wnn6 Messages, (PCK)
SUNWjpxfa	Japanese (PCK) Localizations for Font Administration application for Solaris platforms
SUNWjpxir	Japanese (PCK) Localizations for XIL Runtime Environment
SUNWjpxpm	Japanese (PCK) X Window System online programmers man pages
SUNWjpxum	Japanese (PCK) X Window System online user man pages
SUNWjrddm	Japanese (EUC) OILBN ReadMe Directory
SUNWjreg	Japanese Localizations for Solaris User Registration

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWjsad1	Japanese (EUC) Localizations for Solstice Admintool launcher and associated libraries
SUNWjscag	Japanese Localization for Solaris Smart Card Administration - Graphical User Interface component
SUNWjtlmn	Japanese (EUC) ToolTalk manual pages for ToolTalk programmers, OpenWindows users, and Common Desktop Environment (CDE) users
SUNWjtltk	Japanese (EUC) Localizations for ToolTalk binaries and shared libraries needed for Common Desktop Environment (CDE), OpenWindows, and all ToolTalk clients
SUNWju8e	Japanese (UTF-8) Feature Package specific files; it is a extended package to support Japanese UTF-8 environment
SUNWjuab	Japanese (UTF-8) Localization for CDE Desktop Application Builder
SUNWjuacx	Japanese (UTF-8) Localizations for AccessX client program
SUNWjuadi	Japanese (UTF-8) Localizations for Admintool and GUI install
SUNWjuadm	Japanese (UTF-8) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNWjuadi packages for Japanese (UTF-8) localization
SUNWjubas	Japanese (UTF-8) Localization for CDE application basic Runtime environment
SUNWjuct	Japanese (UTF-8) Localizations for UTF-8 Code Conversion Tool
SUNWjudst	Japanese (UTF-8) Localization for CDE Desktop Applications
SUNWjudte	Japanese (UTF-8) Localization for CDE Desktop Login Environment
SUNWjuezt	Japanese (UTF-8) Localizations for Desktop Power Pack Applications
SUNWjuhe	Japanese (UTF-8) Localization for CDE Help Runtime environment
SUNWjuhed	Japanese (UTF-8) Localization for CDE Help Developer Environment

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese (continued)

<b>This Package</b>	<b>Contains</b>
SUNWjuhev	Japanese (UTF-8) Localization for CDE Help Volumes
SUNWjuhez	Japanese (UTF-8) Localizations for Desktop Power Pack Help Volumes
SUNWjuim	Japanese (UTF-8) Localization for Solaris CDE Image Viewer
SUNWjuj2m	Japanese (UTF-8) man pages
SUNWjujmn	Japanese (UTF-8) JavaVM Manual pages for Java programmers and users
SUNWjukcs	Japanese (UTF-8) Localizations for Kodak Color Management System Runtime
SUNWjulcf	Japanese (UTF-8) Localizations for xutops command
SUNWjuman	Japanese Feature Package Man Pages to see Japanese (UTF-8) man pages for SUNWjfp <sub>r</sub> and SUNWjfp <sub>u</sub> and Japanese man pages for SUNWman and SUNWaled
SUNWjumfr	Japanese (UTF-8) Localizations for Motif 1.2.3 Runtime Kit
SUNWjupmm	Japanese (UTF-8) Power Management OW Utilities Man Pages
SUNWjupmw	Japanese (UTF-8) Localizations for Power Management OW Utilities
SUNWjurdm	Japanese (UTF-8) OILBN ReadMe Directory
SUNWjurme	Japanese (UTF-8) Localization for Common Desktop Environment (CDE) release documentation
SUNWjurvl	Japanese (UTF-8) Localizations for XIL loadable pipelines for SunVideo capture and compression
SUNWjusal	Japanese (UTF-8) Localizations for Solstice Admintool launcher and associated libraries
SUNWjutlm	Japanese (UTF-8) ToolTalk manual pages for ToolTalk programmers, OpenWindows users, and Common Desktop Environment (CDE) users

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWjut1t	Japanese (UTF-8) Localizations for ToolTalk binaries and shared libraries needed for Common Desktop Environment (CDE), OpenWindows, and all ToolTalk clients
SUNWjuudc	Japanese (UTF-8) Localizations for User Defined Character tool for Solaris CDE environment
SUNWjuwm	Japanese (UTF-8) Localization for CDE Desktop Window Manager
SUNWjuwnu	Japanese Input System - Wnn6 Messages, (UTF-8)
SUNWjuxfa	Japanese (UTF-8) Localizations for Font Administration application for Solaris platforms
SUNWjuxir	Japanese (UTF-8) Localizations for XIL Runtime Environment
SUNWjuxpm	Japanese (UTF-8) X Window System online programmers man pages
SUNWjuxum	Japanese (UTF-8) X Window System online user man pages
SUNWjwacx	Japanese (EUC) Localizations for AccessX client program
SUNWjwbc	Japanese Localizations for Solaris WBEM Services
SUNWjwbcp	Japanese (EUC) Localizations for Support files, programs, and libraries for Openwindows Binary Compatibility
SUNWjwbk	Japanese (EUC) Localizations for OpenWindows online handbooks
SUNWjwncr	Japanese Input System - Wnn6 Client ( <code>root</code> )
SUNWjwncu	Japanese Input System - Wnn6 Client ( <code>usr</code> )
SUNWjwncx	Japanese Input System - Wnn6 Client X Window System
SUNWjwndt	Japanese Input System - Wnn6 Client for CDE
SUNWjwnsr	Japanese Input System - Wnn6 Server ( <code>root</code> )

**TABLE C-6** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Japanese *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWjwnsu	Japanese Input System - Wnn6 Server (usr)
SUNWjwsr	Japanese Solaris Product Registry
SUNWjxfa	Japanese (Common) Localizations for Font Administration application for Solaris platforms
SUNWjxfnt	Japanese X Window System Fonts (required fonts) - gothic bold fonts and TrueType map files
SUNWjxoft	Sun Minchou bitmap fonts
SUNWjxplt	Japanese Localizations for X Window System platform software (Extensions)
SUNWjxpmn	Japanese (EUC) X Window System online programmers man pages
SUNWjxumn	Japanese (EUC) X Window System online user man pages

**TABLE C-7** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Korean

<b>This Package</b>	<b>Contains</b>
NSCPkocom	Korean localization of Netscape Communicator 4.7 supporting International security
NSCPkucom	Ko.UTF-8 localization of Netscape Communicator 4.7 supporting International security
SUNWkadis	Korean (EUC) Localizations for Admintool and GUI install
SUNWkadma	Korean (EUC) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNWkadis packages for Korean (EUC) localization
SUNWkbcp	Korean Language Environment binary compatibility files
SUNWkcoft	Korean/Korean UTF-8 common optional font package

**TABLE C-7** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Korean (continued)

<b>This Package</b>	<b>Contains</b>
SUNWkdab	Korean Localizations for CDE Desktop Application Builder
SUNWkdbas	Korean Localizations for CDE Base functionality
SUNWkdcst	The localized tools package for Korean
SUNWkddst	Korean Localizations for CDE Desktop Applications
SUNWkddte	Korean Localizations for CDE Desktop Login Environment
SUNWkdez	Korean (EUC) Localizations for Desktop Power Pack Applications
SUNWkdft	Fonts for the Common Desktop Environment, Korean L10N CDE
SUNWkdhe	Korean Localizations for CDE Help Runtime environment
SUNWkdhev	Korean CDE Help Volumes
SUNWkdhez	Korean (Common) Localizations for Desktop Power Pack Help Volumes
SUNWkdicn	Korean Localizations for CDE Icons
SUNWkdim	Korean Localizations for CDE Imagetool
SUNWkdwm	Korean Localizations for CDE Desktop Window Manager
SUNWkepmw	Korean (EUC) Localization for Power Management OW Utilities
SUNWkervl	Korean (EUC) SunVideo Runtime Support Software
SUNWkexir	Korean (EUC) XIL Runtime Environment
SUNWkj2rt	Java virtual machine and core class libraries (Korean supplement)
SUNWkjvdv	Korean Localizations for JavaVM developers package

**TABLE C-7** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Korean (continued)

<b>This Package</b>	<b>Contains</b>
SUNWkjvrt	Korean Localizations for JavaVM Runtime environment
SUNWkkcsr	Korean (EUC) KCMS Runtime Environment
SUNWkleue	Korean Language Environment specific files; it is a required package to run Korean Language Environment
SUNWkoaud	Korean OPEN LOOK Audio Applications Package
SUNWkodcv	Korean OPEN LOOK Document and Help Viewer Applications Package
SUNWkodem	Korean OPEN LOOK Demo Programs Package
SUNWkodst	Korean OPEN LOOK Deskset Tools Package
SUNWkodte	Korean Core OPEN LOOK Desktop Package
SUNWkoimt	Korean OPEN LOOK Imagetool Package
SUNWkoj2p	Korean localization of Java Plug-In 1.2.2
SUNWkoman	Korean OPEN LOOK Toolkit/Desktop Users Man Pages Package
SUNWkorte	Korean OPEN LOOK Toolkits Runtime Environment Package
SUNWkpdas	Korean Localization for tools to synchronize desktop applications with the Palm Pilot PDA
SUNWkrdm	Korean (EUC) OILBN ReadMe Directory
SUNWkreg	Korean Localizations for Solaris User Registration
SUNWksadl	Korean (EUC) Localizations for Solstice Admintool launcher and associated libraries
SUNWktltk	Korean ToolTalk Runtime Package Package
SUNWkttfe	Korean True Type Font Extension

**TABLE C-7** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
**Korean** (continued)

<b>This Package</b>	<b>Contains</b>
SUNWkuadi	Korean (UTF-8) Localizations for Admintool and GUI install
SUNWkuadm	Korean (UTF-8) Localizations for Software used to perform system administration tasks; Admintool requires both this and SUNWkadis packages for Korean (EUC) localization
SUNWkudab	Korean/UTF-8 Localizations for CDE Desktop Application Builder
SUNWkudbs	Korean/UTF-8 Localizations for CDE Base functionality
SUNWkudc	Korean (EUC) Localizations for User Defined Character tool for Solaris CDE environment
SUNWkudda	Korean/UTF-8 Localizations for CDE Desktop Applications
SUNWkuddt	Korean/UTF-8 Localizations for CDE Desktop Login Environment
SUNWkudft	Fonts for the Common Desktop Environment, Korean/UTF-8 L10N CDE
SUNWkudhr	Korean/UTF-8 Localizations for CDE Help Runtime environment
SUNWkudhv	Korean/UTF-8 CDE Help Volumes
SUNWkudhz	Korean (Common) Localizations for Desktop Power Pack Help Volumes
SUNWkudic	Korean/UTF-8 Localizations for CDE Icons
SUNWkudim	Korean/UTF-8 Localizations for CDE Imagetool
SUNWkudwm	Korean/UTF-8 Localizations for CDE Desktop Window Manager
SUNWkudz	Korean (UTF-8) Localizations for Desktop Power Pack Applications
SUNWkulee	Korean UTF-8 Language Environment specific files; it is a required package to run Korean Language Environment
SUNWkuodf	Korean UTF-8 Core OPEN LOOK Desktop Package



**TABLE C-7** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Korean (continued)

<b>This Package</b>	<b>Contains</b>
SUNWkupmw	Korean UTF-8 Localization for Power Management OW Utilities
SUNWkurdm	Korean (UTF-8) OILBN ReadMe Directory
SUNWkusal	Korean (UTF-8) Localizations for Solstice Admintool launcher and associated libraries
SUNWkuudc	Korean (UTF-8) Localizations for User Defined Character tool for Solaris CDE environment
SUNWkuxe	Korean UTF-8 X Window System Platform Software Package
SUNWkuxft	Korean UTF-8 X Window System Platform Required Fonts
SUNWkwbcp	Korean OpenWindows Binary Compatibility Package
SUNWkwsr	Korean product registry 2.0 localizable text resources
SUNWkxe	Korean X Window System Platform Software Package
SUNWkxfte	Korean X Window System Platform Required Fonts
SUNWkxman	Korean X Window System Online User Man Pages Package

**TABLE C-8** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Shared

<b>This Package</b>	<b>Contains</b>
SUNWabcpc	Asian common files for SunOS 4.x Binary Compatibility
SUNWerdm	OILBN ReadMe Directory
SUNWudct	User Defined Character tool for Solaris CDE Environment

**TABLE C-9** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Spanish

<b>This Package</b>	<b>Contains</b>
NSCPescom	Spanish localization of Netscape Communicator 4.7 supporting International security
SUNWe8bas	Base L10N fr CDE functionality to run a CDE application
SUNWe8dst	CDE Desktop Applications
SUNWe8dte	CDE Desktop Login Environment
SUNWe8he	CDE Help L10N es Runtime Environment
SUNWe8im	CDE Desktop applications
SUNWe8wm	Spanish UTF-8 CDE Desktop Window Manager Messages
SUNWej2rt	Java virtual machine and core class libraries (Spanish supplement)
SUNWejvdv	Spanish Localizations for JavaVM developers package
SUNWejvrt	Spanish Localizations for JavaVM Runtime environment
SUNWeoaud	Spanish OPEN LOOK Audio applications
SUNWeobk	Spanish OpenWindows online handbooks
SUNWeodcv	Spanish OPEN LOOK document and help viewer applications
SUNWeodem	Spanish OPEN LOOK demo programs
SUNWeodst	Spanish OPEN LOOK deskset tools
SUNWeodte	Spanish OPEN LOOK desktop environment
SUNWeoint	Spanish OPEN LOOK imagetool
SUNWeorte	Spanish OPEN LOOK toolkits Runtime environment
SUNWepdas	Spanish tools to synchronize desktop applications with the Palm Pilot PDA

**TABLE C-9** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Spanish *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWesbas	Base L10N fr CDE functionality to run a CDE application
SUNWesdst	CDE Desktop Applications
SUNWesdte	CDE Desktop Login Environment
SUNWeshe	CDE Help L10N es Runtime Environment
SUNWeshed	CDE L10N es Help Developer Environment
SUNWeshev	CDE Help Volumes
SUNWesim	CDE Desktop applications
SUNWesj2p	Spanish localization of Java Plug-In 1.2.2
SUNWesos	Localizable message files for the OS-Networking consolidation
SUNWespmw	Spanish (EUC) Localizations for Power Management OW Utilities
SUNWesreg	Solaris User Registration prompts at desktop login for user registration
SUNWeswm	Spanish CDE Desktop Window Manager Messages
SUNWetltk	Spanish ToolTalk binaries and shared libraries
SUNWewacx	Spanish OPEN LOOK AccessX
SUNWewsr	Product registry 2.0 localizable text resources
SUNWexplt	Spanish X Window System platform software

**TABLE C-10** Packages on the Solaris 8 Languages SPARC Platform Edition CD: Swedish

<b>This Package</b>	<b>Contains</b>
NSCPsvcom	Swedish localization of Netscape Communicator 4.7 supporting International security
SUNWs8bas	Base Swedish UTF-8 CDE functionality messages
SUNWs8dst	Swedish UTF-8 CDE Desktop Applications messages
SUNWs8dte	Swedish UTF-8 CDE Desktop Login Environment messages
SUNWs8he	Swedish UTF-8 CDE Help Runtime Environment
SUNWs8im	Swedish UTF-8 CDE Image editor messages
SUNWs8wm	Swedish UTF-8 CDE Desktop Window Manager Messages
SUNWs j2rt	Java virtual machine and core class libraries (Swedish supplement)
SUNWs jvdv	Swedish Localizations for JavaVM developers package
SUNWs jvrt	Swedish Localizations for JavaVM Runtime environment
SUNWsoaud	Swedish OPEN LOOK Audio applications
SUNWsobk	Swedish OpenWindows online handbooks
SUNWsodcv	Swedish OPEN LOOK document and help viewer applications
SUNWsodem	Swedish OPEN LOOK demo programs
SUNWsodst	Swedish OPEN LOOK deskset tools
SUNWsodte	Swedish OPEN LOOK desktop environment
SUNWsoimt	Swedish OPEN LOOK imagetool
SUNWsorte	Swedish OPEN LOOK toolkits Runtime environment
SUNWspdas	Swedish tools to synchronize desktop applications with the Palm Pilot PDA

**TABLE C-10** Packages on the Solaris 8 Languages SPARC Platform Edition CD:  
Swedish *(continued)*

<b>This Package</b>	<b>Contains</b>
SUNWstltk	Swedish ToolTalk binaries and shared libraries
SUNWsvbas	Base Swedish CDE functionality messages
SUNWsvdst	Swedish CDE Desktop Applications messages
SUNWsvdte	Swedish CDE Desktop Login Environment messages
SUNWsvhe	Swedish CDE Help Runtime Environment
SUNWsvhed	Swedish CDE Help Developer Environment messages
SUNWsvhev	CDE Help Volumes
SUNWsvim	Swedish CDE Image editor messages
SUNWsvj2p	Swedish localization of Java Plug-In 1.2.2
SUNWsvos	Localizable message files for the OS-Networking consolidation
SUNWsvpmw	Swedish (EUC) Localizations for Power Management OW Utilities
SUNWsvreg	Solaris User Registration prompts at desktop login for user registration
SUNWsvwm	Swedish CDE Desktop Window Manager Messages
SUNWswacx	Swedish OPEN LOOK AccessX
SUNWswsr	Product registry 2.0 localizable text resources
SUNWsxplt	Swedish X Window System platform software
SUNWvbcp	Swedish OS Binary Compatibility Package
SUNWvwbcpl	Swedish OpenWindows Binary Compatibility Package



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