Solaris 8 Installation Supplement

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Preface

The *Solaris 8 Installation Supplement* provides instructions on how to install or upgrade to Solaris™ 8 Update releases and how to use new installation features in Solaris 8 Update releases.

Note - The Solaris operating environment runs on two types of hardware, or platforms - SPARC™ and IA (Intel Architecture). The Solaris operating environment also runs on both 64–bit and 32–bit address spaces. The information in this document pertains to both platforms and address spaces unless called out in a special chapter, section, note, bullet, figure, table, example, or code example.

Related Books

This document describes new or changed functionality in Solaris Update releases. The information here supplements or supersedes information in the previous releases of Solaris 8 documentation sets. Solaris documentation is available on the Solaris 8 Documentation CD included with this release.

You might need to refer to the following documents when installing Solaris software:

- *Solaris 8 Start Here* (printed document)
- *Solaris 8 (SPARC Platform Edition) Installation Guide* (on the Solaris 8 Documentation CD)
- *Solaris 8 (Intel Platform Edition) Installation Guide* (on the Solaris 8 Documentation CD)
- *Solaris 8 Advanced Installation Guide* (on the Solaris 8 Documentation CD)
- *Installation Release Notes* (printed document)

- *Release Notes* (on the Solaris 8 Documentation CD)
- *Release Notes Update* (on `http://docs.sun.com`)

For some hardware configurations, you might need supplemental hardware-specific instructions for installing the Solaris operating environment. If your system requires hardware-specific actions at certain points, the manufacturer of your hardware has provided supplemental Solaris installation documentation. Refer to those materials for hardware-specific installation instructions.

Ordering Sun Documents

Fatbrain.com, an Internet professional bookstore, stocks select product documentation from Sun Microsystems, Inc.

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The docs.sun.com[SM] 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`.

Typographic Conventions

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

TABLE P–1 Typographic Conventions

Typeface or Symbol	Meaning	Example
`AaBbCc123`	The names of commands, files, and directories; on-screen computer output	Edit your `.login` file. Use `ls –a` to list all files. `machine_name% you have mail.`
`AaBbCc123`	What you type, contrasted with on-screen computer output	`machine_name%` **`su`** `Password:`
AaBbCc123	Command-line placeholder: replace with a real name or value	To delete a file, type **`rm`** *filename.*
AaBbCc123	Book titles, new words, or terms, or words to be emphasized.	Read Chapter 6 in *User's Guide.* These are called *class* options. You must be *root* to do this.

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–2 Shell Prompts

Shell	Prompt
C shell prompt	`machine_name%`
C shell superuser prompt	`machine_name#`
Bourne shell and Korn shell prompt	`$`
Bourne shell and Korn shell superuser prompt	`#`

CHAPTER 1

What's New at a Glance

This chapter highlights new features in the Solaris 8 Update releases.

TABLE 1–1 Solaris 8 Features

Description	First Released
Installing	
During system identification, the system identification utilities can configure systems to be LDAP clients. Prior Solaris releases allowed the configuration of a machine only as a NIS, NIS+, or DNS client.	1/01
The Solaris™ Web Start 3.0 installation method was updated to allow you to modify the selected Solaris Software Group by adding or removing software packages.	1/01
Upgrading	
The Patch Analyzer is now available when you upgrade with the Solaris Web Start 3.0 installation method on the Solaris 8 Installation CD. The Patch Analzer performs an analysis on your system to determine which (if any) patches will be removed or downgraded by upgrading from the Solaris 8 release to a Solaris 8 Update release.	6/00
Administering and Uninstalling Software	
A new version of the Solaris Product Registry tool has been released. The Solaris Product Registry 3.0 includes these new features: ■ Ability to uninstall individual system packages. ■ All of the Solaris system products that you installed in their localized version appear in the System Software Localizations folder. ■ Registry is compatible with more installation wizards.	1/01

TABLE 1–1 Solaris 8 Features *(continued)*

Description	First Released
Early Access	
This release includes an Early Access (EA) directory with EA software. For more information, see the `README` on the Solaris 8 Software 2 of 2 CD.	6/00

CHAPTER 2

Installing a Solaris 8 Update Release

This chapter provides additional information about installing a Solaris 8 Update release. For complete installation instructions, refer to *Solaris 8 (SPARC Platform Edition) Installation Guide*, *Solaris 8 (Intel Platform Edition) Installation Guide*, or *Solaris 8 Advanced Installation Guide*.

IA: LBA Required When Using the Solaris Web Start 3.0 Installation Method

If you want to use the Solaris 8 Web Start 3.0 installation method on the Solaris 8 Installation CD to install or upgrade, the BIOS and SCSI driver for the default boot disk must support Logical Block Addressing (LBA). LBA allows the machine to boot beyond the 1024 cylinder limit and across Solaris disk slices.

If the default boot disk BIOS and SCSI driver do not support LBA, use the Solaris 1 of 2 CD to install or upgrade to the Solaris 8 operating environment.

LDAP Configuration During System Identification

The system identification utilities were updated in the Solaris 8 1/01 software release.

Prior to the Solaris 8 1/01 software release, the system identification utilities were able to configure a system only as a Network Information Service (NIS) client, a

NIS+ client, or a Domain Name Service (DNS) client. These utilities are now also able to configure a system as a Lightweight Directory Access Protocol (LDAP) client. You can specify that the system is to be an LDAP client interactively or through the `sysidcfg` file. Currently, you cannot specify LDAP through the `add_install_client` command.

The system identification utilities automatically attempt to determine configuration information by using data from a variety of sources. The utilities first check for a `sysidcfg` file. If they cannot find the needed information in the `sysidcfg` file, the utilities automatically attempt to detect the data by using the network. In name service configuration, the system identification utilities automatically attempt to locate a name service, unless the name service type and configuration are specified in the `sysidcfg` file. The utilities first attempt automatically to detect a NIS+ server. If a NIS+ server is not found, they check for a NIS server. If a NIS server is not found, the utilities interactively query for the configuration information. Currently, the utilities cannot automatically detect an LDAP or a DNS server.

Preconfiguring With the `sysidcfg` File

This section supplements "Guidelines for Preconfiguring With the sysidcfg File" in *Solaris 8 Advanced Installation Guide.*

The `sysidcfg` file preconfigures system identification information through a set of keywords that specify the pieces of information you want to preconfigure. The `name_service` keyword has been augmented to allow the specification of LDAP as an available name service. This augmented keyword is described in Table 2–1.

TABLE 2–1 `name_service` Keyword

Configuration Information	Platform	Keywords	Where to Find Values/Example
Name service, domain name, name server	All	`name_service=NIS, NIS+, DNS, LDAP, NONE`	
		`Options for NIS and NIS+:` `{domain_name=`*`domain_name`* `name_server=`*`hostname`*`(`*`ip_address`*`)}`	`name_service=NIS` `{domain_name=west.arp.com` `name_server=timber(129.221.2.1)}` `name_service=NIS+` `{domain_name=west.arp.com` `name_server=timber(129.221.2.1)}`

TABLE 2–1 name_service Keyword *(continued)*

Configuration Information	Platform	Keywords	Where to Find Values/Example
		Options for DNS: {domain_name=*domain_name* name_server=*ip_address*,*ip_address*, *ip_address* (three maximum) search=*domain_name*, *domain_name*,*domain_name*, *domain_name*,*domain_name*, *domain_name* (six maximum, total length less than or equal to 250 characters)}	name_service=DNS {domain_name=west.arp.com name_server=10.0.1.10,10.0.1.20 search=arp.com,east.arp.com} **Note -** Choose only one value for name_service. Include either, both, or neither of the domain_name and name_server keywords, as needed. If neither keyword is used, omit the curly braces {}.
		Options for LDAP: {domain_name=*domain_name* profile=*profile_name* profile_server=*ip_address*}	name_service=LDAP {domain_name=west.arp.com profile=default profile_server=129.221.2.1}

Custom Package Selection With Solaris Web Start 3.0 Installation

This section supplements *Solaris 8 (SPARC Platform Edition) Installation Guide* and *Solaris 8 (Intel Platform Edition) Installation Guide*.

The Solaris Web Start 3.0 installation method was updated at the Solaris 8 1/01 release to include custom package selection during installation or upgrade.

In prior releases of the Solaris 8 operating environment, when using the Solaris Web Start 3.0 installation method to install or upgrade, you could not customize the Solaris Software Group that you selected to install. The Solaris Web Start 3.0 utility included with the Solaris 8 1/01 release enables you to modify the selected Solaris Software Group by adding or removing software packages. When selecting which packages to add or remove, you need to know about software dependencies and how Solaris software is packaged.

Note - Normally, you do not need to customize the Solaris installation by selecting to add or remove packages. Install the default packages for the Solaris Software Group.

CHAPTER 3

Upgrading to a Solaris 8 Update Release

This chapter provides additional information about upgrading to a Solaris 8 Update release. For complete upgrade instructions, refer to *Solaris 8 (SPARC Platform Edition) Installation Guide*, *Solaris 8 (Intel Platform Edition) Installation Guide*, or *Solaris 8 Advanced Installation Guide*.

Upgrading the JavaSpaces Data Store to Prevent WBEM Data Loss

You must convert any proprietary custom Managed Object Format (MOF) data to the new Reliable Log repository format used with Solaris WBEM Services 2.3 if you are upgrading to the Solaris 8 1/01 operating environment (Solaris WBEM Services 2.3) from one of the following:

- Solaris 8 (Solaris WBEM Services 2.0) operating environment
- Solaris 8 6/00 (WBEM Services 2.1) operating environment
- Solaris 8 10/00 (WBEM Services 2.2) operating environment

Failure to convert the data will result in data loss.

To convert Web-Based Enterprise Management (WBEM) data, before upgrading you must save the JavaSpaces™ software. After upgrading, you must run the `wbemconfig convert` command.

Note - For detailed instructions on how to save the JavaSpaces software, see *Solaris 8 1/01 Release Notes*.

After upgrading to the Solaris 8 1/01 operating environment, follow these steps to convert the WBEM data.

1. **Change to superuser and stop the Common Information Model (CIM) Object Manager.**

```
# /etc/init.d/init.wbem stop
```

Caution - Failure to stop the CIM Object Manager before running the `wbemconfig convert` command might corrupt your data.

2. **Restore the JavaSpaces software that you saved before upgrading.**

```
# mv /usr/sadm/lib/wbem/outrigger.jar /usr/sadm/lib/wbem/outrigger.jar.2
# mv /usr/sadm/lib/wbem/outrigger.jar.tmp /usr/sadm/lib/wbem/outrigger.jar
```

3. **In a separate location from the currently installed JDK™ software, install the JDK version that was installed on your machine before installing the Solaris 8 1/01 operating environment. You can download the JDK software from** `http://java.sun.com/products/`**.**

4. **Change the symbolic link from** `/usr/java` **to the location of the JDK version that was installed on your machine before you install the Solaris 8 1/01 operating environment. For example, do the following if you installed Solaris_JDK_1.2.1_04c in** `/old_sdk`:

```
# rm /usr/java
# ln -s /old_sdk/Solaris_JDK_1.2.1_04c /usr/java
```

5. **Convert the JavaSpaces data to Reliable Log format.**

```
# /usr/sadm/lib/wbem/wbemconfig convert
```

6. **Restore the `outrigger.jar` file included in the Solaris 8 1/01 installation.**

```
# mv /usr/sadm/lib/wbem/outrigger.jar.2 /usr/sadm/lib/wbem/outrigger.jar
```

7. **Change the symbolic link from `/usr/java` to the location of the JDK software that ships with the Solaris 8 1/01 operating environment. For example:**

```
# rm /usr/java
# ln -s /usr/java1.2 /usr/java
```

8. **Start the CIM Object Manager.**

```
# /etc/init.d/init.wbem start
```

Upgrading From the Solaris 8 Operating Environment

If you are already running the Solaris 8 operating environment and have installed individual patches, upgrading to a Solaris 8 Update release causes the following:

- Any patches supplied as part of the Solaris 8 Update release are reapplied to your system. You cannot back out these patches.
- Any patches previously installed on your system that are not included in the Solaris 8 Update release are removed.

To see a list of patches that are removed, use the Patch Analyzer as described in the following section.

Analyzing the Patches

The Patch Analyzer performs an analysis on your system to determine which (if any) patches will be removed by upgrading to the Solaris 8 Update release. The Patch Analyzer is available in the following formats.

- If you are using the Solaris Web Start 3.0 installation method on the Solaris 8 Installation CD to upgrade, refer to "Using the Patch Analyzer With a Solaris Web Start 3.0 Upgrade" on page 18.
- If you are using the Interactive Installation method to upgrade, select Analyze on the Patch Analysis dialog box to perform the analysis. For detailed instructions, see "Upgrading From Solaris 8 or a Solaris 8 Update: the Patch Analyzer" in *Solaris 8 Advanced Installation Guide*.
- If you are using a custom JumpStart™ installation to upgrade, run the `analyze_patches` script to perform the analysis. For detailed instructions, see "Upgrading From Solaris 8 or a Solaris 8 Update: the Patch Analyzer" in *Solaris 8 Advanced Installation Guide*.

Using the Patch Analyzer With a Solaris Web Start 3.0 Upgrade

This section supplements "Upgrading a System" in *Solaris 8 (SPARC Platform Edition) Installation Guide* and "Upgrading a System" in *Solaris 8 (Intel Platform Edition) Installation Guide*.

The Solaris Web Start 3.0 installation method gives you the option to use the Patch Analyzer to analyze the patches on your system. After you choose Upgrade, the Patch Analyzer dialog box appears.

1. **In the Patch Analyzer dialog box, choose Yes and click Next.**

   The Patch Analyzer reviews the system patches.

   The Patch Analyzer Summary dialog box displays the total number of patches that will be removed, downgraded, accumulated, or made obsolete by other patches.

2. **To see the specific patches that might be removed, downgraded, accumulated, or obsoleted by other patches, click the Details button(s).**

3. **Decide if the patch replacements and deletions are acceptable.**
   - If the patch replacements and deletions by the Solaris 8 Update release are acceptable, click Next to complete the upgrade.
   - If the patch replacements and deletions by the Solaris 8 Update release are not acceptable, click Exit to terminate the upgrade. You can use the Solaris 8 Maintenance Update and the *Solaris 8 Maintenance Update Installation Guide* to install the patches on your Solaris 8 system.

CHAPTER 4

Administering and Uninstalling Software

This chapter provides additional information about administering software with the Solaris Product Registry tool.

Solaris Product Registry 3.0

This section supplements “Adding and Removing Software With the Product Registry” in *Solaris 8 (SPARC Platform Edition) Installation Guide* and “Adding and Removing Software With the Product Registry” in *Solaris 8 (Intel Platform Edition) Installation Guide*.

A new version of the Solaris Product Registry tool has been released in the Solaris 8 1/01 release. You can access the Product Registry by using the command `/usr/bin/prodreg`. The Solaris Product Registry 3.0 includes these new features:

- Ability to uninstall individual system packages.
- All of the Solaris system products that you installed in their localized version appear in the System Software Localizations folder.
- Registry is compatible with more installation wizards.

Uninstalling Individual Packages

You can now use the Solaris Product Registry 3.0 graphical user interface to uninstall individual system packages or clusters of system packages.

Note - When you select which packages to uninstall, you need to know about software dependencies and how Solaris software is packaged. If package dependency information is available, the Solaris Product Registry 3.0 tool displays a warning when you attempt to uninstall a package that is required by another package.

System Software Localizations Folder

In the Software installed in Solaris Registry list in the Solaris 8 System Software folder, you will find the new System Software Localizations folder. This folder contains a complete list of Solaris system software products that were installed in their localized version. You can uninstall these individual system packages or clusters of packages.

Note - If your system has only the English locale installed, the Solaris Product Registry 3.0 does not display the System Software Localization folder.

More Installation Wizards

Software applications that use Solaris Web Start Wizards™ versions 3.0 and 2.0 application programing interfaces (APIs) for installation now display in the Software installed in Solaris Registry list. In the previous version of the Solaris Product Registry, only applications that used Solaris Web Start Wizards 2.0 APIs appeared in the list.

If you installed applications that used Solaris Web Start Wizards 3.0 APIs before you installed the Solaris 8 1/01 release, these applications now appear in the Software installed in Solaris Registry list.