

Oracle® Solaris Studio 12.2 Installation Guide

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Preface

The *Oracle Solaris Studio 12.2 Installation Guide* guide gives instructions on how to perform the following tasks:

- Use the package installer to install the Oracle Solaris Studio 12.2 software
- Install the required Oracle Solaris 10 patches
- Run the Integrated Development Environment (IDE)
- Uninstall the Oracle Solaris Studio 12.2 software

Note – This Oracle Solaris Studio release supports systems that use the SPARC and x86 families of processor architectures: UltraSPARC, SPARC64, AMD64, Pentium, and Xeon EM64T. The supported systems for the version of the Solaris operating system you are running are available in the hardware compatibility lists at <http://www.sun.com/bigadmin/hcl>. These documents cite any implementation differences between the platform types.

In this document, these x86 related terms mean the following:

- “x86” refers to the larger family of 64-bit and 32-bit x86 compatible products.
- “x64” points out specific 64-bit information about AMD64 or EM64T systems.
- “32-bit x86” points out specific 32-bit information about x86 based systems.

For supported systems, see the hardware compatibility lists.

Who Should Use This Book

This book is designed for system administrators who install software and for developers who use software development applications. Experience with the Oracle Solaris operating system and UNIX commands is required.

Accessing Oracle Solaris Studio Documentation

You can access the documentation at the following locations:

- The documentation is available from the documentation index page at <http://www.oracle.com/technetwork/server-storage/solarisstudio/documentation/index.html>.
- Online help for all components of the IDE is available through the Help menu, as well as through the F1 key, and through Help buttons on many windows and dialog boxes, in the IDE.
- Online help for the Performance Analyzer and the Thread Analyzer is available through the Help menu, as well as through the F1 key, and through Help buttons on many windows and dialog boxes, in the Performance Analyzer.
- Online help for DLight and dbxtool is available through the Help menu, as through the F1 Key, and through Help button on many windows and dialog boxes, in these tools.

Documentation in Accessible Formats

The documentation is provided in accessible formats that are readable by assistive technologies for users with disabilities. You can find accessible versions of documentation as described in the following table.

Type of Documentation	Format and Location of Accessible Version
Manuals and Tutorials	HTML from the Oracle Solaris Studio 12.2 collection on http://docs.sun.com
<i>What's New in the Oracle Solaris Studio 12.2 Release</i> (information that was included in the component Readmes in previous releases)	HTML from the Oracle Solaris Studio 12.2 collection on http://docs.sun.com
Man pages	In the installed product through the man command
Online help	HTML available through the Help menu Help buttons, and F1 key in the IDE, Performance Analyzer, DLight, and dbxtool.
Release notes	HTML from the Oracle Solaris Studio 12.2 collection on http://docs.sun.com

Related Third-Party Web Site References

Third-party URLs are referenced in this document and provide additional, related information.

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Typographic Conventions

The following table describes the typographic conventions that are used in this book.

TABLE P-1 Typographic Conventions

Typeface	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name% you have mail.</code>
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name% su</code> Password:
<i>aabbcc123</i>	Placeholder: replace with a real name or value	The command to remove a file is <i>rm filename</i> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . <i>A cache</i> is a copy that is stored locally. Do <i>not</i> save the file. Note: Some emphasized items appear bold online.

Shell Prompts in Command Examples

The following table shows the default UNIX system prompt and superuser prompt for shells that are included in the Solaris OS. Note that the default system prompt that is displayed in command examples varies, depending on the Solaris release.

TABLE P-2 Shell Prompts

Shell	Prompt
Bash shell, Korn shell, and Bourne shell	\$
Bash shell, Korn shell, and Bourne shell for superuser	#
C shell	machine_name%
C shell for superuser	machine_name#

Documentation, Support, and Training

See the following web sites for additional resources:

- [Documentation \(http://docs.sun.com\)](http://docs.sun.com)
- [Support \(http://www.oracle.com/us/support/systems/index.html\)](http://www.oracle.com/us/support/systems/index.html)
- [Training \(http://education.oracle.com\)](http://education.oracle.com) – Click the Sun link in the left navigation bar.

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[Oracle Technology Network \(http://www.oracle.com/technetwork/index.html\)](http://www.oracle.com/technetwork/index.html) offers a range of resources related to Oracle software:

- Discuss technical problems and solutions on the [Discussion Forums \(http://forums.oracle.com\)](http://forums.oracle.com).
- Get hands-on step-by-step tutorials with [Oracle By Example \(http://www.oracle.com/technology/obe/start/index.html\)](http://www.oracle.com/technology/obe/start/index.html).
- Download [Sample Code \(http://www.oracle.com/technology/sample_code/index.html\)](http://www.oracle.com/technology/sample_code/index.html).

Preparing for Installation

This chapter includes information about the following:

- “Software Installation Overview” on page 11
- “System Requirements” on page 12
- “Choosing Local or Remote Display of the Installer” on page 13
- “Installing to an NFS-Mounted Filesystem” on page 14
- “Choosing an Installation Method” on page 15

Software Installation Overview

The following steps outline the general process you follow to install the Oracle Solaris Studio 12.2 software, product serial number, and supporting software.

Step	Task	Description	For Instructions
1.	Verify that the system on which you are installing the Oracle Solaris Studio 12.2 software meets the minimum hardware and operating system requirements for this release.	Using a system that meets the system requirements is recommended for proper performance.	See “ System Requirements ” on page 12
2.	Determine whether you are going to display the installer locally or remotely.	You can install the Oracle Solaris Studio software using a remote display or local display.	See “ Choosing Local or Remote Display of the Installer ” on page 13
3.	Choose an installation method.	There are two ways to install the Oracle Solaris Studio software.	See “ Choosing an Installation Method ” on page 15
4.	Install the Oracle Solaris Studio 12.2 software and the required OS patches.	Step through the installation information.	See “ Installing the Oracle Solaris Studio Software ” on page 17

System Requirements

Oracle Solaris Studio 12.2 software supports the hardware and operating system requirements shown in [Table 1-1](#).

Note – For further disk space requirements and important last minute information about this release, see the release notes at <http://docs.sun.com/app/docs/doc/821-1785>.

TABLE 1-1 System Requirements

	Solaris OS on SPARC based systems	Solaris OS on x86 based systems	Linux OS on x86 based systems
Operating system	Solaris 10 1/06 and subsequent Solaris 10 OS updates		SuSE Linux Enterprise Server 11 RedHat Enterprise Linux 5 Oracle Enterprise Linux 5
CPU	Sun UltraSPARC-based systems Fujitsu SPARC64 platform-based systems	32 and 64 bit systems (Pentium class or newer) based on AMD and Intel x86 CPUs	
Memory	Recommended: 1 to 2 GB Minimum: 512 MB (more may be needed for working with large projects in the IDE)		
Temporary disk space required by the installer	1.8 GB	1.5 GB	1 GB
Disk space required by the installed product (Use the <code>df -k</code> command to check your disk space.)	1.4 GB	1.13 GB	1.12 GB
Swap space	Recommended: 2 to 4 GB Minimum: 1 GB To add swap space to your system, see “Adding Swap Space” on page 37		
Operating system configuration	For the Solaris 10 OS: Entire Solaris Software Group Plus OEM Support, Entire Solaris Software Group, or Developer Solaris Software Group (To determine your operating system configuration, you need to verify the installed packages. Specific packages are installed for each configuration. See the Solaris OS installation documentation for more details.)		Linux OS must include the Development/Libraries Package Group.

Java SE Development Kit (JDK) 6 Update 13 or later is required to run the IDE, dbxtool, DLight, and Performance Analyzer. If you plan to use these tools and do not have the required JDK, you can download the JDK from <http://www.oracle.com/technetwork/java/javase/downloads/index.html> and install it after you have installed Oracle Solaris Studio.

Choosing Local or Remote Display of the Installer

You can display the installer either locally or remotely while you are installing the Oracle Solaris Studio 12.2 software:

- *Local display.* The source computer and the display computer are the same computer. The GUI installer window or non-GUI installer messages are displayed on the same computer that contains the product DVD or downloaded files and runs the installer.
- *Remote display.* The source computer and the display computer are different computers. The source computer contains the product DVD or downloaded files and runs the installer. The display computer displays the GUI installer window or non-GUI installer messages. To install using a remote display, follow the instructions in the remainder of this section.

▼ Preparing for Installation Using a Remote Display

- 1 **On the display computer, enable client access to the X server by typing the following on the command line:**

```
xhost + source-computer-name
```

Replace *source-computer-name* with the output of the `/usr/bin/hostname` command entered on the source computer, which is the computer that contains the product DVD or downloaded files.

- 2 **Log in to the source computer and become a superuser (root).**

```
rlogin source-computer-name -l rootname
Password: root-password
```

- 3 **On the source computer, set the display to the monitor that is attached to the display computer.**

If you use the C shell, type:

```
setenv DISPLAY display-computer-name:n.n
```

If you use the Bourne shell, type:

```
DISPLAY=display-computer-name:n.n
export DISPLAY
```

If you use the Korn shell, type:

```
export DISPLAY=display-computer-name:n.n
```

Replace *display-computer-name* with the output of the `/usr/bin/hostname` entered on the display computer.

Installing to an NFS-Mounted Filesystem

To install the Oracle Solaris Studio software on an NFS-mounted filesystem, you must run the installer on a supported system regardless of where the NFS partition is mounted. In the following procedure, the server is the machine with the physical disk on which the installed software will reside, and the client is the machine on which you run the installer and which NFS-mounts the filesystem from the server.

Note – The best way to share the product image as an NFS-mounted filesystem is to export it from a supported system. Run the installer on the server and share the directory in which the software is installed. Use the following NFS install procedure only if your NFS server is not a supported platform for the product.

After mounting the filesystem you can install the Oracle Solaris Studio product on the server by running the graphical user interface (GUI) installer or non-GUI installer on the client machine. You would specify the directory on which you mounted the filesystem as the installation directory for the Oracle Solaris Studio 12.2 software.

After you have installed the software, any machine that is running the Oracle Solaris 10 OS can mount the filesystem from the server on which you installed the software, and run the software. Each client machine that runs the software must have the required OS patches installed (see [Appendix D, “Patch Identification Numbers and Descriptions”](#)). You can install the patches using the `install_patches` utility (see “[Installing the Required Oracle Solaris OS Patches](#)” on [page 23](#)).

To uninstall Oracle Solaris Studio software installed on an NFS-mounted filesystem, you must run the uninstaller on the same client machine you used to install the software, and you must mount the filesystem prior to running the uninstaller.

▼ To Prepare for Installing the Oracle Solaris Studio Software on an NFS-mounted Filesystem

- 1 On the server machine, share the filesystem with the appropriate options. It is essential that root on the client machine on which the installer will be run have full access to the NFS filesystem:

```
share -F nfs -o root=client-machine,rw filesystem
```

2 On the client machine, mount the shared filesystem with read/write access:

`mount server-machine:filesystem installation-directory`

Choosing an Installation Method

There are two ways to install the Oracle Solaris Studio 12.2 software:

Package installer, graphical user interface (GUI) mode

The graphical user interface installer is an installation wizard that displays pages for a series of installation steps. On each page, you can quit, go back to the previous step, or go on to the next step. You can choose the installation directory and which components of the Oracle Solaris Studio 12.2 software you want to install. Or you can run the installer to install only the runtime libraries.

Package installer, non-GUI mode

The non-GUI mode of the package installer installs all components of the Oracle Solaris Studio 12.2, or only the runtime libraries, silently.

Installing the Oracle Solaris Studio 12.2 Software

This chapter includes information about the following:

- “Installing the Oracle Solaris Studio Software” on page 17
- “Installing the Required Oracle Solaris OS Patches” on page 23
- “Setting Up Access to the Developer Tools and Man Pages” on page 23
- “Starting the Oracle Solaris Studio 12.2 IDE” on page 24

Installing the Oracle Solaris Studio Software

You can install the Oracle Solaris Studio 12.2 software and the required OS patches on a single-user system. Or you can install the software and OS patches on a server for use by client systems with the same architecture, and then install the OS patches on each client system that will access the Oracle Solaris Studio software on the server.

Tip – Installation from a network location can take a significant amount of time, so if possible, make a copy of the installation bundle on each system where you plan to install the software, and run the installer locally.

Installing in a Zone

To install the software in a zone on a Solaris 10 system, run the installer in that zone. If you are installing in the global zone and want the software to be available in that zone only, select the Install in current zone only checkbox in the GUI installer, or specify the `--current-zone-only` option when starting the non-GUI installer.

Installing in an Alternate Root Directory

To install the software using an alternate root directory, use the non-GUI installer with the `--use-alternative-root` *directory* option.

Installing on Multiple Systems

To install the software on multiple systems, you can use the `--record` *state_file.xml* option when starting the GUI installer to record an installation that you can repeat using the `--state` *state_file.xml* option with the non-GUI installer.

Installing Oracle Solaris Studio With the Graphical User Interface Installer

The graphical user interface (GUI) installer lets you choose the installation directory and select which components of the Oracle Solaris Studio 12.2 software you want to install. For a complete list of the valid command-line options when starting the GUI installer, see [“Command-Line Options for the GUI Installer” on page 33](#).

The GUI installer requires the Java 2 Software Development Kit (JDK) 5, Update 3.

▼ Using the Graphical User Interface Installer

- 1 If you are not currently superuser (root), become superuser by typing:

```
su
Password: root-password
```

- 2 In the directory that contains the installer, start the installer by typing:

```
./SolarisStudio12.2-OS-platform-pkg-ML.sh
```

- 3 The System Analysis page tells you:

- If your system is missing any of the required OS patches.
If you need to install these patches, you can do so by:
 - Clicking More Info and then clicking Execute `install_patches.sh` now.
 - Running the `install_patches.sh` utility from the command line after you have installed Oracle Solaris Studio.

For a complete list of the valid command-line options when starting the `install_patches.sh` utility, see [“Command-Line Options for the `install_patches.sh` Utility” on page 35](#)

The required OS patches must also be installed with the `install_patches.sh` utility on client systems that will use the Oracle Solaris Studio 12.2 software on a server. For more information, see “Installing the Required Oracle Solaris OS Patches” on page 23.

- If your system does not have JDK 6, Update 13, which is required for running the IDE, dbxtool, DLight, and the Performance Analyzer. If you plan to use these tools, you can download the required JDK from <http://www.oracle.com/technetwork/java/javase/downloads/index.html>.
- 4 The Oracle Solaris Studio Installer page gives you the option of selecting which components of the Oracle Solaris Studio software to install:
 - a. Click Next if you want to install all components of the software.
 - b. Click Customize if you want to select which components of the software to install. The Customize Installation dialog box lists the components and indicates which, if any, components are already installed. Click the checkbox for any component you do not want to install to remove the checkmark. Click OK, then click Next.

Note – To install only the runtime libraries, you must have specified the `--libraries-only` option when you started the installer (see “Installing the Runtime Libraries Only With the GUI Installer” on page 20).

- 5 On the Oracle Solaris Studio Installation page:
 - a. Specify a different installation directory if you do not want to install the software in the default installation directory `/opt`. If you already have some components of Oracle Solaris Studio 12.2 software installed, the installer will install additional components only in the same directory.
 - b. By default, the installer creates symbolic links in the `/usr/bin` directory and the `/usr/share/man` directory to the Oracle Solaris Studio 12.2 software and man pages. If you already have symbolic links in `/usr/bin` and `/usr/share/man` to a previous Sun Studio release, the links to Oracle Solaris Studio 12.2 will replace them. If you do not want the symbolic links created, or you do not want links to a previous release replaced, click the Create symbolic links in `/usr/bin` checkbox to remove the checkmark. (If you already have the links to Oracle Solaris Studio 12.2 installed, the checkbox is not displayed.)
 - c. If you are running the installer on a system that has zones, the Install Oracle Solaris Studio software to current zone only checkbox is displayed. By default, the installer installs the software to the current zone only. If you want the software installed to all zones, click the checkbox to remove the checkmark. When you run the installer in the global zone, installing in the current zone only makes the installed product visible only in the global zone.
 - d. Click Next.

- 6 On the Summary page, verify that the list of components to be installed is correct and that you have adequate space on your system for installation. Then click Install to start the installation.
- 7 When the installation is complete, the Setup Complete page is displayed. Click Finish to exit the installer.
- 8 After installation, the installer opens a web browser and asks you to use your Sun Online Account to register your copy of Oracle Solaris Studio with the Sun Inventory. Registration is not required, but it allows you to organize your products in the Sun Inventory and receive timely information from Sun. The installer also registers this copy of Oracle Solaris Studio in your local Service Tags database (if this service is available).
- 9 If Oracle Solaris Studio 12.2 is going to be used from client systems, then on each client system, set the PATH and MANPATH to access the Oracle Solaris Studio 12.2 software and man pages on the server (see [“Setting Up Access to the Developer Tools and Man Pages” on page 23](#)).
- 10 If you installed the Oracle Solaris Studio 12.2 software on a single-user system, type the following to determine whether you need to set up your access to the Oracle Solaris Studio 12.2 software tools and man pages:

```
/usr/bin/version
```

- a. If you receive the message `/usr/bin/version: not found` or the command reports an earlier version of Sun Studio software, see [“Setting Up Access to the Developer Tools and Man Pages” on page 23](#) for information on setting your PATH and MANPATH to point to the Oracle Solaris Studio 12.2 software.
- b. If the command reports Oracle Solaris Studio 12.2 software, you do not need to set your PATH and MANPATH.

Installing the Runtime Libraries Only With the GUI Installer

You can use the GUI installer to install the Oracle Solaris Studio runtime libraries only.

Note – If you run the installer to install only the libraries, you cannot run the installer later to install additional components without first running the uninstaller to uninstall the libraries.

▼ Using the Graphical User Interface Installer

- 1 If you are not currently superuser (root), become superuser by typing:

```
su  
Password: root-password
```

- 2 In the directory that contains the installer, start the installer by typing:
`./SolarisStudio12.2-OS-platform-pkg-ML.sh --libraries-only`
- 3 On the Oracle Solaris Studio Installer page, click Next.
- 4 On the Oracle Solaris Studio Installation page, specify a different installation directory if you do not want to install the libraries in the default installation directory /opt.
- 5 On the Summary page, verify that you have adequate space on your system for installation. Then click Install to start the installation.
- 6 When the installation is complete, the Setup Complete page is displayed. Click Finish to exit the installer.

Installing Oracle Solaris Studio With the Non-GUI Installer

By default, the non-GUI installer installs all components of the Oracle Solaris Studio 12.2 software silently in the default installation directory. You can start the installer with the `--installation-location directory` option to install all components in a directory of your choice. You can start the installer with the `--libraries-only` to install the runtime libraries only (see [“Installing the Runtime Libraries Only With the Non-GUI Installer” on page 22](#)). For a complete list of the valid command-line options when starting the non-GUI installer, see [“Command-Line Options for the Non-GUI Installer” on page 34](#).

▼ Using the Non-GUI Installer

- 1 If you are not currently superuser (root), become superuser by typing:
`su`
Password: *root-password*
- 2 In the directory that contains the installer, start the installer by typing:
`./SolarisStudio12.2-OS-platform-pkg-ML.sh --non-interactive`
- 3 The installer runs silently and returns your prompt when installation is complete. It writes a log file in the `/root/.nbi/logs` directory.
- 4 If the Oracle Solaris Studio 12.2 is going to be used from client systems, then on each client system, set the `PATH` and `MANPATH` to access the Oracle Solaris Studio 12.2 software and man pages on the server (see [“Setting Up Access to the Developer Tools and Man Pages” on page 23](#)).

- 5 If you installed the Oracle Solaris Studio 12.2 software on a single-user system, type the following to determine whether you need to set up your access to the Oracle Solaris Studio 12.2 software tools and man pages:
`/usr/bin/version`
 - a. If you receive the message `/usr/bin/version: not found` or the command reports an earlier version of Sun Studio software, see [“Setting Up Access to the Developer Tools and Man Pages” on page 23](#) for information on setting your PATH and MANPATH to point to the Oracle Solaris Studio 12.2 software.
 - b. If the command reports Oracle Solaris Studio 12.2 software, you do not need to set your PATH and MANPATH.

Installing the Runtime Libraries Only With the Non-GUI Installer

You can use the non-GUI installer to install the Oracle Solaris Studio Runtime Libraries only.

Note – If you run the installer to install only the libraries, you cannot run the installer later to install The Oracle Solaris Studio software without first running the uninstaller to uninstall the libraries.

▼ Using the Non-GUI Installer

- 1 If you are not currently superuser (root), become superuser by typing:
`su`
Password: *root-password*
- 2 In the directory that contains the installer, start the installer by typing:
`./SolarisStudio12.2-OS-platform-pkg-ML.sh --non-interactive --libraries-only`
- 3 The installer runs silently and returns your prompt when installation is complete. It writes a log file in the `/root/.nbi/logs` directory.

Installing the Required Oracle Solaris OS Patches

Several operating system patches are required for the proper operation of the compilers and tools in the Oracle Solaris Studio 12.2 release on the Solaris OS (see [Appendix D, “Patch Identification Numbers and Descriptions”](#)). To install the required Solaris OS patches, you can run the `install_patches.sh` utility that is included in the product download.

If you are running the GUI installer, the System Analysis page informs you if your system does not have the required OS patches. You can then run the `install_patches.sh` utility by clicking More info, and then clicking Execute `install_patches.sh` now.

If you are running the non-GUI installer, run the `install_patches.sh` utility after installation to ensure that your system has the required OS patches.

If you have installed the Oracle Solaris Studio 12.2 software on a server and it is going to be used from client systems, then do the following:

1. On each client system, mount the directory on the server into which you downloaded the package installer.

```
mount server:filesystem download_directory
```
2. On each client system, run the `install_patches.sh` utility to install the required Solaris OS patches.

Setting Up Access to the Developer Tools and Man Pages

Because the Oracle Solaris Studio 12.2 software product components and man pages are not installed into the system directories `/usr/bin/` and `/usr/share/man`, you might need to change your `PATH` and `MANPATH` environment variables to enable use of the Oracle Solaris Studio 12.2 software.

You do not need to change your paths if:

- You did not previously install Sun Studio 11 software, Sun Studio 12 software, or Sun Studio 12 Update 1 software on your system.
- The response to the command `/usr/bin/version` is Oracle Solaris Studio 12.2 software.

On Solaris platforms, add the path `/installation_directory/solstudio12.2/bin` to your `PATH` environment variable. On Linux platforms, add the path `/installation_directory/oracle/solstudio12.2/bin` to your `PATH` environment variable. If you have previous versions of Sun Studio, Sun ONE Studio, or Forte Developer software installed, add the path before the paths of the previous installations.

On Solaris platforms, add the path `/installation_directory/solstudio12.2/man/` to your `MANPATH` environment variable. On Linux platforms, add the path `/installation_directory/sun/solstudio12.2/man/` to your `MANPATH` environment variable.

Starting the Oracle Solaris Studio 12.2 IDE

Once you have the Oracle Solaris Studio 12.2 software and the required OS patches installed, and have added the software installation directory to your path, you can start using the software. To start the IDE, type the following:

solstudio &

Note – The full path to the command is */installation_directory/solstudio12.2/bin/solstudio* on Solaris systems, and */installation_directory/oracle/solstudio12.2/bin/solstudio* on Linux platforms.

Uninstalling the Oracle Solaris Studio 12.2 Software

This chapter includes information about the following:

- “Uninstalling When Previous Releases of Sun Studio Software Are Installed” on page 25
- “Choosing Local Display or Remote Display of the Uninstaller” on page 25
- “Uninstalling the Software” on page 26

Uninstalling When Previous Releases of Sun Studio Software Are Installed

If you installed the Oracle Solaris Studio 12.2 software on a system that has previous Sun Studio software installations, then only Oracle Solaris Studio 12.2 is removed when you run the uninstaller. The uninstaller removes all of the installed product components.

Choosing Local Display or Remote Display of the Uninstaller

You can display an uninstaller either locally or remotely while you are uninstalling Oracle Solaris Studio 12.2 software.

▼ Preparing for Uninstallation Using a Remote Display

- 1 On the display computer, enable client access to the X server by typing the following on the command line:

```
xhost + source-computer-name
```

Replace *source-computer-name* with the output of the `/usr/bin/hostname` command entered on the source computer, which is the computer that contains the product CD-ROM or downloaded files.

- 2 **Log in to the source computer and become a superuser (root).**

```
rlogin source-computer-name -l rootname  
Password: root-password
```

- 3 **On the source computer, set the display to the monitor that is attached to the display computer.**

If you use the C shell, type:

```
setenv DISPLAY display-computer-name:n.n
```

If you use the Bourne shell, type:

```
DISPLAY=display-computer-name:n.n  
export DISPLAY
```

If you use the Korn shell, type:

```
export DISPLAY=display-computer-name:n.n
```

Replace *display-computer-name* with the output of the `/usr/bin/hostname` entered on the display computer.

Uninstalling the Software

You can uninstall all of the installed components of the Oracle Solaris Studio 12.2 software using the graphical user interface uninstaller or the non-GUI uninstaller.

▼ Using the Graphical User Interface Uninstaller

- 1 **If you are not currently superuser (root), become superuser by typing:**

```
su  
Password: root-password
```

- 2 **Go to the installation directory, for example, `/opt/solstudio12.2`.**

- 3 **Start the GUI uninstaller by typing:**

```
./uninstall.sh &
```

- 4 **On the Summary page, click Uninstall to start the uninstallation.**

- 5 **When the uninstallation is complete, the Setup Complete page is displayed. Click Finish to exit the uninstaller.**

▼ Using the Non-GUI Uninstaller

- 1 If you are not currently superuser (root), become superuser by typing:

```
su  
Password: root-password
```

- 2 Go to the installation directory, for example, `/opt/sunstudio12.2`.
- 3 Start the non-GUI uninstaller by typing:

```
./uninstall.sh --non-interactive
```
- 4 The uninstaller runs silently and returns your prompt when uninstallation is complete.

Troubleshooting

This chapter describes how to fix problems that can occur during Oracle Solaris Studio 12.2 installation and uninstallation.

The chapter includes information about the following:

- [“GUI Installer Will Fail If TMPDIR Points to Non World-Writable Directory” on page 29](#)
- [“GNOME Errors Might Occur When Starting GUI Installer” on page 30](#)
- [“Installer Lock File Might Prevent Installer From Starting” on page 30](#)
- [“Fixing a Failed Installation or Uninstallation” on page 30](#)
- [“Installation Will Fail on an NFS-Mounted Filesystem If Write Permission is Not Set” on page 32](#)
- [“Viewing the Installation Log File” on page 32](#)

GUI Installer Will Fail If TMPDIR Points to Non World-Writable Directory

If you choose to install the symbolic links to Oracle Solaris Studio software in the `/usr/bin` and `/usr/man/share` directories, and your `TMPDIR` environment variable is pointing to a directory that is not world-writable, then the GUI installer will fail to complete installation. To ensure that this situation does not occur, unset your `TMPDIR` environment variable or set it to a world-writable directory before starting the installer.

GNOME Errors Might Occur When Starting GUI Installer

On some systems, GNOME errors might occur when you start the GUI installer. If such errors prevent the GUI installer from starting, use the non-GUI installer.

Installer Lock File Might Prevent Installer From Starting

If the installer is interrupted or quits without completing the installation, a lock file might prevent you from restarting the installer. If you receive a message that an instance of the installer is already running when you try to start the installer, you might need to remove a lock file from the `/root/.nbi` directory.

Fixing a Failed Installation or Uninstallation

On Solaris platforms, the installer stores information on which Oracle Solaris Studio 12.2 packages it has installed in two places:

- The `product registry` file, the Solaris Product Registry database
- The `/root/.nbi` directory

On Linux platforms, the installer stores information on which Oracle Solaris Studio 12.2 packages it has installed in two places:

- The database of installed packages
- The `/root/.nbi` directory

If some packages were not properly installed, you will have problems using the Oracle Solaris Studio software, and you might have problems installing additional components or uninstalling the software.

For example, if the installer quit before installation was complete, the uninstaller (`uninstall.sh`) might not be present in your installation directory. Or if you used the `pkgadd` command to install any of the packages, the `product registry` file or the `product-cache` directory in the `/root/.nbi` directory might be corrupted. In such cases, the uninstaller cannot uninstall the packages and you need to remove them in the correct way in order to be able to rerun the installer.

If the uninstaller quits before all the product files are deleted, rerunning the uninstaller will not delete the remaining files and you need to remove them in the correct way to complete the uninstallation of the product.

Do not uninstall the product by removing the installation directory. Packages will still be registered in the `product registry` database and the `/root/.nbi` directory, and the installer will not run.

▼ Fixing a Failed Installation or Uninstallation on Solaris Platforms

- 1 Become superuser by typing:

```
su  
Password: root-password
```

- 2 Open the Solaris Product Registry tool by typing:

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

- 3 In the left pane of the tool, expand the Unclassified Software node.

- 4 Select all of the package names containing Oracle Solaris Studio 12.2 and click Uninstall. Follow the instructions to remove the packages.

- 5 Click Exit to exit the tool.

- 6 Remove the `/root/.nbi` directory by typing:

```
rm -r /.nbi
```

▼ Fixing a Failed Installation or Uninstallation on Linux Platforms

- 1 Become superuser by typing:

```
su  
Password: root-password
```

- 2 Find all of the Oracle Solaris Studio packages by typing:

```
rpm -q -a | grep solstudio12.2
```

- 3 Remove each Oracle Solaris Studio 12.2 rpm package by typing:

```
rpm -e package-name
```

Oracle Solaris Studio 12.2 rpm packages have the suffix `12.2-1`, for example, `solstudio12u2-cc-12.2-1`. Be careful not to remove packages from Sun Studio releases, which have different suffixes.

- 4 Remove the `/root/.nbi` directory by typing:

```
rm -r /.nbi
```

Installation Will Fail on an NFS-Mounted Filesystem If Write Permission is Not Set

If installation fails on an NFS-mounted filesystem, ensure that you have write permission on that filesystem. You can check for write permission by following these instructions. For information about installing on an NFS-mounted filesystem, see [“Installing to an NFS-Mounted Filesystem”](#) on page 14.

1. Check for write permission by typing:

```
touch /net/remote-system/opt/testfile
```

If you receive an error message, then you do not have write permission. For example:

```
touch /net/harker/opt/testfile  
touch: /net/harker/opt/testfile cannot create
```

2. Choose another installation directory on which you have write permission, or contact your system administrator to change the filesystem permissions.

Viewing the Installation Log File

When you install the Oracle Solaris Studio 12.2 software, a log file that contains a record of the installation session is automatically generated. Log files are stored in the `/root/.nbi/logs` directory.

Command-Line Options for the Installer, Uninstaller, and `install_patches` Utility

Command-Line Options for the GUI Installer

The following command-line options are valid when you are starting the GUI installer.

<code>--current-zone-only</code>	Install only in the current zone. When you run the installer in the global zone, this option makes the installed product available only in that zone.
<code>--help</code>	Display information on the options.
<code>--javahome <i>directory</i></code>	Use the JDK in <i>directory</i> when running the installer. This option is needed when the installer cannot locate a JDK in a standard location on your system, and you need to point it to one.
<code>--libraries-only</code>	Perform runtime libraries only installation.
<code>--locale <i>locale</i></code>	Override the default locale for the installer with the specified locale. Valid locales are <code>en</code> (English), <code>ja</code> (Japanese), and <code>zh</code> (Simplified Chinese).
<code>--output <i>output_file</i></code>	Write all installer output to the specified file.
<code>--record <i>state_file.xml</i></code>	Record an installer session in the GUI installer so that you can use repeat the installation on another system with the non-GUI installer. This option is especially useful when you want to install a subset of the product components on multiple systems.
<code>--tempdir <i>directory</i></code>	By default, the installer extracts temporary data into the <code>/tmp</code> directory. If there is not sufficient space in the <code>/tmp</code> directory on your system, you can specify another directory for the installer to use.
<code>--verbose</code>	Write verbose output to the console.

Command-Line Options for the Non-GUI Installer

The following command-line options are valid when you are starting the non-GUI installer.

<code>--create-symlinks</code>	Create symbolic links in the <code>/usr/bin</code> and <code>/usr/share/man</code> directories to the Oracle Solaris Studio 12.2 software and man pages.
<code>--current-zone-only</code>	Install only in the current zone. When you run the installer in the global zone, this option makes the installed product visible only in that zone.
<code>--extract-installation-data <i>directory</i></code>	Extract installation data, do not perform installation.
<code>--help</code>	Display information on the options.
<code>--installation-location <i>directory</i></code>	Install Oracle Solaris Studio software in the specified directory instead of in the default installation directory <code>/opt</code> .
<code>--javahome <i>directory</i></code>	Use the JDK in <i>directory</i> when running the installer. This option is needed when the installer cannot locate a JDK in a standard location on your system, and you need to point it to one.
<code>--libraries-only</code>	Perform runtime libraries only installation.
<code>--locale <i>locale</i></code>	Override the default locale for the installer with the specified locale. Valid locales are <code>en</code> (English), <code>ja</code> (Japanese), and <code>zh</code> (Simplified Chinese).
<code>--non-interactive</code>	Start the installer in non-GUI mode.
<code>--silent-logs-dir <i>directory</i></code>	Write the installer log file to the specified directory.
<code>--state <i>state_file</i> .xml</code>	Play back the state file recorded by the GUI installer to silently repeat an installation session. This option lets you install a subset of the product components in non-GUI mode.
<code>--tempdir <i>directory</i></code>	By default, the installer extracts temporary data into the <code>/tmp</code> directory. If there is not sufficient space in the <code>/tmp</code> directory on your system, you can specify another directory for the installer to use.
<code>--use-alternative-root <i>directory</i></code>	Install in the specified root directory instead of the default root directory <code>/</code> . Specify the full path of the directory to use as the alternate root. This option is valid only on systems running the Solaris OS.
<code>--verbose</code>	Write verbose output to the console.

Command-Line Options for the Uninstaller

The following options are valid when starting the uninstaller.

<code>--locale <i>locale</i></code>	Override the default locale for the uninstaller with the specified locale. Valid locales are <code>en</code> (English), <code>ja</code> (Japanese), and <code>zh</code> (Simplified Chinese). This option is valid only for the GUI uninstaller.
<code>--non-interactive</code>	Run the uninstaller in non-GUI mode and uninstall installed components of the software.
<code>--output <i>output_file</i></code>	Write all uninstaller output to the specified file. This option is valid only for the GUI uninstaller.
<code>--use-alternative-root <i>directory</i></code>	Uninstall from the specified root directory instead of the default root directory <code>/</code> . This option is valid only for the non-GUI uninstaller.

Command-Line Options for the `install_patches.sh` Utility

The following options are valid when starting the `install_patches.sh` utility.

<code>-G</code>	Add patches to packages in the current zone only. When you run the utility in the global zone, this option makes the patches available in that zone only.
<code>-p</code>	Install Oracle Solaris Studio product patches if available. If you specify this option and no product patches are available, the utility displays a message telling you so.
<code>-l <i>locale</i></code>	Override the default locale for the utility with the specified locale. Valid locales are <code>en</code> (English), <code>ja</code> (Japanese), and <code>zh</code> (Simplified Chinese).
<code>-R <i>directory</i></code>	Install patches in the specified root directory instead of the default root directory <code>/</code> . Specify the full path of the directory to use as the alternate root.
<code>-h</code>	Display information on the options.

Adding Swap Space

Adding Swap Space

If the system on which you are installing the software does not have the required minimum 1 GB of swap space, add swap space by doing the following.

▼ Adding Swap Space on a Solaris System

- 1 **Become a superuser (root) by typing:**

```
% su
Password: root-password
```

- 2 **Create a file in a selected directory to add swap space by typing:**

```
mkfile number[m|k|b] /directory/swap-file-name
```

where *number* is an amount of swap space, followed by either *m* for megabyte, *k* for kilobyte, or *b* for block. The *directory* is a directory in which you have permission to add swap space. The *swap-file-name* is the name of the swap file you are creating.

For example, to create a 16-megabyte swap file named `16mswap` in the `foo` directory, type the following:

```
mkfile 16m /foo/16mswap
```

See the `mkfile(1M)` man page for more information.

- 3 **Verify that the file was created by typing:**

```
ls -l /directory/swap-file-name
```

The new file appears in the directory. For example:

```
ls -l /foo/16mswap
-rw-----T  1 root    other    16777216 Dec 12 14:24 /foo/16mswap
```

- 4 Run the `swap` command to specify the additional swap space by typing:

```
swap -a /directory/swap-file-name
```

- 5 Verify that the extra swap space was added by typing:

```
swap -s
```

The output shows the allocated swap space. For example:

```
swap -s
total: 289336k bytes allocated + 27008k reserved = 316344k used, 298336k available
```

▼ Adding Swap Space on a Linux System

- 1 Become a superuser (root) by typing:

```
% su
Password: root-password
```

- 2 Create a file in a selected directory to add swap space by typing:

```
dd if=/dev/zero of=/dir/myswapfile bs=1024 count=number_blocks_needed
```

where *dir* is a directory in which you have permission to add swap space. The *myswapfile* is the name of the swap file you are creating. The *number_blocks_needed* is an amount of 1024-byte blocks you want to create. See the `dd(1)` man page for more information.

- 3 Verify that the file was created by typing:

```
ls -l /dir/myswapfile
```

The new file appears in the directory.

- 4 Initialize the new swap area by typing:

```
mkswap /dir/myswapfile
```

See the `mkswap(8)` man page for more detailed information.

- 5 Run the `swapon` command to enable the new swap space for paging and swapping by typing the following:

```
swapon -a /dir/myswapfile
```

- 6 Verify that the extra swap space was added by typing:

```
swapon -s
```

The output shows the allocated swap space.

Oracle Solaris 12.2 Components and Packages

This appendix lists the components, and packages that comprise the Oracle Solaris Studio 12.2 software.

[Table C-1](#) lists the Oracle Solaris Studio 12.2 software package configuration and component information for the Solaris OS on SPARC based systems.

[Table C-2](#) lists the Oracle Solaris Studio 12.2 software package configuration and component information for the Solaris OS on x86 based systems.

[Table C-3](#) lists the Oracle Solaris Studio 12.2 RPM package and component information for Linux platforms.

TABLE C-1 Oracle Solaris Studio 12.2 Components and Packages for SPARC Based Systems

Component	Packages
C and C++ Compilers	SPRO-12u2-cc
	SPRO-12u2-c++
	SPRO-12u2-c++-libs
Fortran Compiler	SPRO-12u2-fortran
	SPRO-12u2-f90-libs
dbx Debugger	SPRO-12u2-dbx
dbxtool	SPRO-12u2-dbxtool
dmake	SPRO-12u2-dmake
IDE	SPRO-12u2-studio-ide
	SPRO-12u2-netbeans
DLight Observability Tool	SPRO-12u2-dlight

TABLE C-1 Oracle Solaris Studio 12.2 Components and Packages for SPARC Based Systems
(Continued)

Component	Packages
Performance and Thread Analysis Tools	SPRO-12u2-analyzer
Math Libraries	SPRO-12u2-math-libs
Support Files	SPRO-12u2-backend SPRO-12u2-studio-common
Performance Library	SPRO-12u2-perflib
ScaLAPACK	SPRO-12u2-scalapack
Localizations	SPRO-12u2-studio-ja SPRO-12u2-studio-zhCN

TABLE C-2 Oracle Solaris Studio 12.2 Components and Packages for x86 Based Systems

Component	Packages
C and C++ Compilers	SPRO-12u2-cc SPRO-12u2-c++ SPRO-12u2-c++-libs
Fortran Compiler	SPRO-12u2-fortran SPRO-12u2-f90-libs
dbx Debugger	SPRO-12u2-dbx
dbxtool	SPRO-12u2-dbxtool
dmake	SPRO-12u2-dmake
IDE	SPRO-12u2-studio-ide SPRO-12u2-netbeans
DLight Observability Tool	SPRO-12u2-dlight
Performance and Thread Analysis Tools	SPRO-12u2-analyzer
Math Libraries	SPRO-12u2-math-libs
Support Files	SPRO-12u2-backend SPRO-12u2-studio-common
Performance Library	SPRO-12u2-perflib
ScaLAPACK	SPRO-12u2-scalapack

TABLE C-2 Oracle Solaris Studio 12.2 Components and Packages for x86 Based Systems *(Continued)*

Component	Packages
Localizations	SPRO-12u2-studio-ja
	SPRO-12u2-studio-zhCN

TABLE C-3 Oracle Solaris Studio 12.2 Components and RPM Packages for Linux Platforms

Component	RPMs
C and C++ Compilers	solstudio12u2-cc-12.2-1
	solstudio12u2-c++-12.2-1
	solstudio12u2-c++-libs-12.2-1
Fortran Compiler	solstudio12u2-fortran-12.2-1
	solstudio12u2-f90-libs-12.2-1
dbx Debugger	solstudio12u2-dbx-12.2-1
dbxtool	solstudio12u2-dbxtool-12.2-1
dmake	solstudio12u2-dmake-12.2-1
IDE	solstudio12u2-studio-12.2-1
	solstudio12u2-netbeans-12.2-1
Performance and Thread Analysis Tools	solstudio12u2-analyzer-12.2-1
Support Files	solstudio12u2-backend-12.2-1
	solstudio12u2-studio-common-12.2-1
	solstudio12u2-compiler-oslibs-12.2-1
Performance Library	solstudio12u2-perflib-12.2-1
ScaLAPACK	solstudio12u2-scalapack-12.2-1
Localizations	solstudio12u2-studio-ja-12.2-1
	solstudio12u2-studio-zhCN-12.2-1

Patch Identification Numbers and Descriptions

Operating system patches are provided for the Oracle Solaris Studio 12.2 software. These patches are required for the proper operation of the compilers and tools in this release. This appendix lists the Solaris OS patches that are included with this release. If these patches are not already installed on your system, you can install them using the `install_patches` script that is included in the directory that contains the installer.

[Table D-1](#) lists the patch identification numbers and descriptions of the required patches for the Solaris 10 OS on SPARC based systems.

[Table D-2](#) lists the patch identification numbers and descriptions of the required patches for the Solaris 10 OS on x86 based systems.

Additional patches, which are not included in the product download file or on the product DVD, are recommended to resolve specific issues that might or might not affect your use of the software. To install one of the recommended patches, download the patch from [SunSolve](http://sunsolve.sun.com) (<http://sunsolve.sun.com>) and follow the instructions in the README file included with the patch, which contains important information on risks and proper procedure.

[Table D-3](#) lists the patch identification number and description of the recommended patch for the Solaris 10 OS on SPARC based systems.

[Table D-4](#) lists the patch identification numbers and descriptions of the recommended patches for the Solaris 10 OS on x86 based systems.

TABLE D-1 Required Patches for Solaris 10 OS on SPARC Based Systems

Patch Identification Number	Patch Description
118683-05	Assembler and <code>libxprof</code> patch (required for <code>-xprofile</code> option)
120753-08	<code>libmtsk</code> patch
119963-20	Shared library patch for C++

TABLE D-2 Required Patches for Solaris 10 OS on x86 Based Systems

Patch Identification Number	Patch Description
119961-07	Assembler and libxprof patch (required for -xprofile option)
120754-08	libmtsk patch
119964-20	Shared library patch for C++

TABLE D-3 Recommended Patch for Solaris 10 OS on SPARC Based Systems

Patch Identification Number	Patch Description
127127-11	Kernel patch. This patch is required on systems running Solaris 10 OS releases earlier than the Solaris 10 08/07 release in order for compiler annotations (-xannotate=yes) to work.

TABLE D-4 Recommended Patches for Solaris 10 OS on x86 Based Systems

Patch Identification Number	Patch Description
127128-11	Kernel patch. This patch is required on systems running Solaris 10 OS releases earlier than the Solaris 10 08/07 release in order for compiler annotations (-xannotate=yes) to work.
137122-01	Kernel patch. This patch is required on systems running Solaris 10 releases earlier than the Solaris 10 10/08 release on which patch 127112 or 127128 has been installed in order to use the dbx debugger to debug applications that use signal handling.

Version Numbers of the Oracle Solaris Studio 12.2 Components

This appendix provides the version numbers of the components of the Oracle Solaris Studio 12.2 software.

TABLE E-1 Version Numbers of the Oracle Solaris Studio 12.2 Components

Component	Version Number
C compiler	5.11
C++ compiler	5.11
Fortran 95 compiler	8.5
dbx debugger	7.8
dbxtool	0.10
DLight	2.0
dmake	8.0
IDE	9.0
Locklint	2.6
OpenMP Support	3.0
Performance Analyzer	7.8
Standard C++ Library	5.11
STLport	4.5.3
Sun Performance Library	2010/08/11
Thread Analyzer	7.8
Tools.h++	7.1.0

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