



Installation Guide

Sun™ ONE Studio 8

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Before You Begin

This installation guide gives instructions for how to perform the following tasks:

- Install the Sun™ Open Net Environment (Sun ONE) Studio 8, Compiler Collection product software and serial number
- Uninstall Forte™ Developer or Sun ONE Studio Compiler Collection software
- Troubleshoot installation problems

This book is designed for system administrators who install software. Experience with the Solaris™ operating environment and UNIX® commands is required.

Typographic Conventions

TABLE P-1 Typeface Conventions

Typeface	Meaning	Examples
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. % You have mail.
AaBbCc123	What you type, when contrasted with on-screen computer output	% su Password:
AaBbCc123	Book titles, new words or terms, words to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. You <i>must</i> be superuser to do this.
AaBbCc123	Command-line placeholder text; replace with a real name or value	To delete a file, type <code>rm filename</code> .

TABLE P-2 Code Conventions

Code Symbol	Meaning	Notation	Code Example
[]	Brackets contain arguments that are optional.	O[<i>n</i>]	O4, O
{ }	Braces contain a set of choices for a required option.	d{ <i>y</i> <i>n</i> }	dy
	The “pipe” or “bar” symbol separates arguments, only one of which may be chosen.	B{dynamic static}	Bstatic
:	The colon, like the comma, is sometimes used to separate arguments.	R <i>dir</i> [: <i>dir</i>]	R/local/libs:/U/a
...	The ellipsis indicates omission in a series.	xinline= <i>fl</i> [,... <i>fn</i>]	xinline=alpha,dos

Shell Prompts

Shell	Prompt
C shell	<i>machine-name</i> %
C shell superuser	<i>machine-name</i> #
Bourne shell and Korn shell	\$
Superuser for Bourne shell and Korn shell	#

Accessing Compiler Collection Documentation

You can access the documentation at the following locations:

- The documentation is available from the documentation index that is installed with the software on your local system or network at `file:/opt/SUNWspro/docs/index.html`.

If your software is not installed in the `/opt` directory, ask your system administrator for the equivalent path on your system.

- Most manuals are available from the `docs.sun.comsm` web site. The following titles are available through your installed software only:
 - *Standard C++ Library Class Reference*
 - *Standard C++ Library User's Guide*
 - *Tools.h++ Class Library Reference*
 - *Tools.h++ User's Guide*
- The release notes are available from the `docs.sun.com` web site.

The `docs.sun.com` web site (<http://docs.sun.com>) enables you to read, print, and buy Sun Microsystems manuals through the Internet. If you cannot find a manual, see the documentation index that is installed with the software on your local system or network.

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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. If your software is not installed in the `/opt` directory, ask your system administrator for the equivalent path on your system.

Type of Documentation	Format and Location of Accessible Version
Manuals (except third-party manuals)	HTML at http://docs.sun.com
Third-party manuals: <ul style="list-style-type: none">• <i>Standard C++ Library Class Reference</i>• <i>Standard C++ Library User's Guide</i>• <i>Tools.h++ Class Library Reference</i>• <i>Tools.h++ User's Guide</i>	HTML in the installed software through the documentation index at <code>file:/opt/SUNWspr/docs/index.html</code>
Readmes and man pages	HTML in the installed software through the documentation index at <code>file:/opt/SUNWspr/docs/index.html</code>
Release notes	HTML at http://docs.sun.com

Accessing Related Solaris Documentation

The following table describes related documentation that is available through the `docs.sun.com` web site.

Document Collection	Document Title	Description
Solaris Reference Manual Collection	See the titles of man page sections.	Provides information about the Solaris operating environment.
Solaris Software Developer Collection	<i>Linker and Libraries Guide</i>	Describes the operations of the Solaris link-editor and runtime linker.
Solaris Software Developer Collection	<i>Multithreaded Programming Guide</i>	Covers the POSIX and Solaris threads APIs, programming with synchronization objects, compiling multithreaded programs, and finding tools for multithreaded programs.

Resources for Developers

Visit <http://www.sun.com/developers/studio> and click the Compiler Collection link to find these frequently updated resources:

- Articles on programming techniques and best practices
- A knowledge base of short programming tips
- Documentation of compiler collection components, as well as corrections to the documentation that is installed with your software
- Information on support levels
- User forums
- Downloadable code samples
- New technology previews

You can find additional resources for developers at <http://www.sun.com/developers/>.

Contacting Sun Technical Support

If you have technical questions about this product that are not answered in this document, go to:

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Preparing for Installation

This chapter includes information about the following topics:

- The software installation overview
- System requirements
- Adding swap space

Software Installation Overview

The following steps outline the general process you follow to install the Sun ONE Studio 8, Compiler Collection software, product serial number, and supporting software. See the references provided in each step for specific procedures.

Task	Description	For Instructions
1. Verify that the system on which you are installing the Sun ONE Studio 8 software meets the minimum requirements for this release.	Using a system that meets the system requirements is recommended for proper performance.	See “System Requirements” on page 16
2. Determine whether you want to keep your previous version of the Sun ONE Studio or Forte Developer software.	Identify a different directory in which to install this Sun ONE Studio 8 software if you choose to keep the previous version.	See “Supporting Previous Sun ONE Studio and Forte Developer Releases” on page 19 of Chapter 2.
3. If you installed a previous Early Access version of Sun ONE Studio 8, Compiler Collection software, you must uninstall it before proceeding with the installation.	The latest version of the software contains updates that were not available in the Early Access version.	See Chapter 3 for uninstallation instructions.

Task	Description	For Instructions
4. You must install the product serial number during product installation.	The product does not work without a valid serial number.	See Chapter 2 for product installation and serial number installation.
5. Determine whether you are going to display the installer locally or remotely.	You can install the Sun ONE Studio software using a remote display or local display.	Refer to “Choosing Local Display or Remote Display of the Installer” on page 22 for more details.
6. Decide if you want to use the compiler collection software with the Forte Developer 6 update 2 IDE.	Locate the installation path of the Forte Developer 6 update 2 product path to use during installation of the compiler collection.	See “Setting the Path for Using the Compiler Collection Software With an IDE” on page 21 in Chapter 2 for more information.

After following the instructions in this manual, you are ready to use your Sun ONE Studio 8, Compiler Collection software.

System Requirements

This Sun ONE Studio Compiler Collection release supports the Solaris™ operating environment (*SPARC® Platform Edition*) version 7, 8, and 9; and the Solaris operating environment (*x86 Platform Edition*) versions 7, 8, and 9.

Note – For further disk space requirements and important last-minute information about this release, see the release notes on the Sun ONE Studio 8, Compiler Collection on the `docs.sun.com` website at <http://docs.sun.com/doc/816-6727>.

TABLE 1-1 lists the system requirements.

TABLE 1-1 System Requirements

	Solaris <i>SPARC Platform Edition</i>	Solaris <i>x86 Platform Edition</i>
Operating Environment	Solaris 7, 8, or 9	Solaris 7, 8, or 9
System	Recommended: Ultra 60 360 MHz; Sun Blade 100 500 MHz Minimum: Ultra 10	Recommended: Pentium III 450 MHz Minimum: Pentium II 350 MHz
Monitor	1152 x 900 resolution; 15” color monitor	

TABLE 1-1 System Requirements (Continued)

	Solaris SPARC Platform Edition	Solaris x86 Platform Edition
Memory	768 Mbytes recommended; 256 Mbytes minimum	
Swap Space*	1024 Mbytes recommended; 512 Mbytes minimum	
Disk Space	500 Mbytes	
Additional software	J2SE 1.4.1 and required patches	
OS Configurations	Entire Solaris Software Group Plus OEM Support, Entire Solaris Software Group, or Developer Solaris Software Group	

*Use the swap -s command to check the swap space.

Adding Swap Space

If you want to add swap space, do the following:

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
```

Installation Features Included in This Release

This Sun ONE Studio Compiler Collection release includes the following installation features:

- Graphical user interface installation
- Command-line installation
- Batch installation
- Solaris JumpStart™ installation (for the Solaris™ 9 Operating Environment only)
- Serial number installation tool (`snit`)

Chapter 2 includes instructions for using each of the features.

Installing Sun ONE Studio 8 Software

This chapter gives you step-by-step instructions for installing your Sun™ ONE Studio 8, Compiler Collection software and serial number.

Note – Do not use the `pkgadd` command to install the software. Use the provided installer.

Supporting Previous Sun ONE Studio and Forte Developer Releases

To support previous Sun ONE Studio Compiler Collection and Forte Developer releases as well as this Sun ONE Studio release on the same computer, select a different installation directory for the new release. For example, if you previously installed development tools in the `/opt` directory, install the new development tools in a new directory on a filesystem with sufficient disk space.

After installation, modify your `PATH` and `MANPATH` environment variables to include the new directory. See “Setting Up Access to the Developer Tools and Man Pages” on page 37 for more information about setting the variables to use the new release.

Upgrading From Try and Buy Software

When you upgrade from Try and Buy software to purchased software, you do not need to reinstall the software product. You only need to install your permanent serial number by using the provided installer. Follow the steps in “Using the

Graphical User Interface Installer” on page 27 or “Using the Command-Line Installer” on page 30, and when you have successfully entered your serial number, you can exit from the installer.

There are two ways to install your permanent serial number:

- Use the product installer to install the serial number.
- Use the Serial Number Installation Tool.

This software provides a utility called the Serial Number Installation Tool (`snit`). This utility works from the command line and is used to display the contents of a license file and to install serial numbers into the license file.

Follow the steps below to use the Serial Number Installation Tool to install your permanent serial number.

1. **Locate the permanent serial number. See “Locating the Product Serial Number” on page 21.**
2. **Become a superuser (root) by typing:**

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

3. **Use the `snit` command to enter your serial number by typing:**

```
% /install-directory/SUNWspr0/bin/snit -i serial-number -f /install-
directory/SUNWspr0/prod/lib/serial.dat
```

The serial number is installed in the `serial.dat` file of your product. Refer to the `snit(1)` man page for more details about the `snit` command options.

Preparing for Installation

There are four ways to install the Sun ONE Studio Compiler Collection software:

- Use the graphical user interface (GUI) installer. See “Using the Graphical User Interface Installer” on page 27 for instructions.
- Use the command-line installer if you do not have graphical user interface capabilities. See “Using the Command-Line Installer” on page 30 for instructions.
- Use the batch installer (see “Using the Batch Installer” on page 34) to install the software in a default installation.

- Use the Solaris JumpStart™ installer on the Solaris™ 9 Operating Environment (see “Using the Solaris JumpStart Installer” on page 36). Using the installer automates the software installation process if you need to install the Sun ONE Studio Compiler Collection software on multiple systems.

Locating the Product Serial Number

When you purchase the product, the serial number is listed on a card that is enclosed in the product package. The 26-character number on the card is the number that you enter in the Enter Serial Number pane of the installer during installation. You can also generate a 60-day trial serial number during the installation process.

Preparing the Electronic Download Files

If you obtained your files through electronic download, you can find complete instructions for downloading and untarring the downloaded files on the product web site at <http://www.sun.com/software/sundev/suncc/index.html>. Follow the instructions on the web site before you proceed with product installation.

Setting the Path for Using the Compiler Collection Software With an IDE

You can use the compiler collection software with the IDE in the Sun™ ONE Studio 4 update 1 software or the IDE in the Forte™ Developer 6 update 1 software.

For information on setting the path from the Sun ONE Studio 4 update 1 IDE to the compilers and tools in your Sun ONE Studio 8, Compiler Collection software after installation, see the online help topic "How the IDE Finds the Compilers" in the Solaris Native Languages Support help set in Sun ONE Studio 4 update 1.

If you want to use the compiler collection software with the Forte Developer 6 update 2 IDE, you need to install the Sun ONE Studio 8 to Forte Developer 6 update 2 (FD6u2) Connector during the compiler collection installation. You need to know the installation location for Forte Developer 6 update 2, so you can type that path into the Forte Developer 6 update 2 Connector text box during installation. See Step 8 in “Using the Graphical User Interface Installer” on page 27 or Step 11 in “Using the Command-Line Installer” on page 30 for more details.

For more information on these IDE options, see the Compiler Collection IDE Options Readme, which is available through the documentation index at /install_directory/SUNWsprow/docs/index.html.

Choosing Local Display or Remote Display of the Installer

You can display the installer either locally or remotely while you are installing the Sun ONE Studio 8 software with the graphical user interface installer or the command-line installer:

- **Local display.** The source computer and the display computer are the same computer. The installer window or command-line installer is displayed on the same computer that contains the product CD-ROM or downloaded files and runs the installer. To install using the local display, proceed to “Using the Graphical User Interface Installer” on page 27 or “Using the Command-Line Installer” on page 30.
- **Remote display.** The source computer and the display computer are different computers. The source computer contains the product CD-ROM or downloaded files and runs the installer. The display computer displays the installer window or command-line installer. To install using a remote display, follow the instructions in “Preparing to Install Using a Remote Display” on page 23 or “Preparing to Install Using a Remote Display With an NFS-Mounted Filesystem” on page 24.

Preparing to Install Using a Remote Display

To prepare for installation using a remote display, follow these steps:

1. **On the display computer, enable client access to the X server by typing the following at a 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) by typing:**

```
% 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:0.0
```

If you use the Bourne shell, type:

```
# DISPLAY=display-computer-name:0.0  
# export DISPLAY
```

If you use the Korn shell, type:

```
# export DISPLAY=display-computer-name:0.0
```

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

4. **Proceed to “Using the Graphical User Interface Installer” on page 27 or “Using the Command-Line Installer” on page 30.**

Preparing to Install Using a Remote Display With an NFS-Mounted Filesystem

You can install using a remote display if you have write permission on the NFS-mounted filesystem. See “What If the Installation Fails on an NFS-Mounted Filesystem?” on page 57 of Chapter 4 for troubleshooting information.

Note – If you choose to install with this method, all of the files will be owned by nobody on the NFS-mounted filesystem, which makes it difficult to know who owns the directory. Also note that the uninstaller will reside on your local machine, so you must use that local machine to run the uninstaller if you choose to uninstall the product.

Follow the steps below to prepare for installation using a remote display with an NFS-mounted filesystem.

Preparing the source computer

1. Become a superuser (root) by typing:

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

Note – In the following examples, the CD-ROM name `studiocc_8_sparc` is used. Use the name of your product CD-ROM in place of `studiocc_8_sparc`. If you have electronically downloaded the product files, use the download directory name in place of `studiocc_8_sparc`. If you are installing from electronically downloaded files, all files must be untarred in the *source-machine/download-directory* before proceeding with installation.

2. Add the following line to your `/etc/dfs/dfstab` file in order to share the product image as an NFS filesystem:

```
share -F nfs -o ro /cdrom/studiocc_8_sparc
```


3. Verify that your source computer is an NFS server by typing:

```
# ps -ef | grep nfsd
```

If screen output that resembles the following example appears, then `nfsd` is running:

```
root 237 1 17 Jun 04 ? 0:00 /usr/lib/nfs/nfsd -a 16
```

If you do not see screen output like the preceding example, start `nfsd` by typing:

```
# /etc/init.d/nfs.server start  
# ps -ef | grep nfsd
```

You should see screen output similar to the previous example. If not, contact your system administrator or your Sun authorized service provider.

If `nfsd` is running, to make the product image available, type:

```
# /usr/sbin/shareall
```

4. Ensure that your source computer is exporting your product directory by typing:

```
# /usr/sbin/dfshares
```

Screen output that resembles the following example appears:

RESOURCE	SERVER	ACCESS	TRANSPORT
server-name:product-location	server-name	-	-

Preparing the display computer

1. Enable client access to the X server by typing the following at a command line:

```
% /usr/openwin/bin/xhost + source-machine-name
```

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

2. Log in as superuser (root) by typing:

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

3. Create a new directory by typing:

```
# mkdir /install-directory
```

where *install-directory* is the directory in which you want to install the product.

4. Mount the product files by typing:

```
# mount source-machine:/cdrom/studiocc_8_sparc /install-directory
```

5. Go to the directory that you created in Step 3 by typing:

```
# cd /install-directory
```

6. Set the display to the monitor you are using.

If you use the C shell, type:

```
# setenv DISPLAY source-computer-name:0.0
```

If you use the Bourne shell, type:

```
# DISPLAY=source-computer-name:0.0
# export DISPLAY
```

If you use the Korn shell, type:

```
# export DISPLAY=source-computer-name:0.0
```

Using the Graphical User Interface Installer

These instructions describe how to install the Sun ONE Studio 8, Compiler Collection software and serial number using the product CD-ROM to launch the graphical user interface installer. If you get the product from an electronic download, be sure to follow all instructions on the download web site for downloading the files and invoking the installer.

Note – Do not use the `pkgadd` command to install the software. Use the provided installer.

1. **Decide if you want to install using a remote display. See “Choosing Local Display or Remote Display of the Installer” on page 22 for details.**
2. **If you are not currently superuser (root), become a superuser by typing:**

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

3. **Insert the CD-ROM in the CD-ROM drive.**

The product installer starts.

If the installer does not start or you are using the Solaris™ 9 operating environment, the autorun feature might be disabled or unsupported on your system. In this case, use one of the following methods to start the installer:

- In the File Manager window, double-click the installer icon to start the installer.
- Invoke the installer by typing:

```
# /cdrom/studiocc_8_sparc/installer
```

The installer begins installing the product and the Welcome pane appears.

Note – This is a multilanguage CD-ROM. If the operating system does not recognize the correct language, use the `-locales` option with `en` for English or `ja` for Japanese when you invoke the installer. For example:

```
/cdrom/studiocc_8_sparc/installer -locales en
```

4. Click Next in the Welcome pane.

The Initializing pane appears, and when initialization is complete, the Binary Code License Agreement pane appears.

5. In the Binary Code License Agreement pane, click `Accept`.

If you choose `Decline`, you cannot continue with the installation.

6. Click Next to proceed to the Component Selection pane.

7. In the Component Selection pane, select the type of installation you want for each product.

- If you select `Omit`, the product is not installed.
- If you select `Default Install`, the installer installs all components of the product and all online documentation that is associated with the components.
- If you select `Custom Install`, the installer allows you to select (in Step 12) which subcomponents of the product you want to install.

Note – If you select `Default Install` for Solaris patches, the installer installs all of the required patches for the Sun ONE Studio 8, Compiler Collection software, which are listed in Appendix B. If you have previously installed these patches, installing the required patches does not downgrade your system.

8. If you did not choose to install the Sun ONE Studio 8 to Forte Developer 6 update 2 (FD6u2) Connector in Step 7, skip to Step 9. If you did choose to install the connector, then the Sun ONE Studio 8 to Forte Developer 6 update 2 pane appears.

Note – To install the connector, you must already have Forte Developer 6 update 2 software installed.

a. Type the correct path in the text field for your installed Forte Developer 6 update 2 software.

b. Click Next to continue.

After the installer checks for adequate disk space, the Ready to Install pane appears.

9. Click Next to proceed to the Select Install Directory pane.

10. Decide whether you want to change the software installation directory from `/opt`.

See “Supporting Previous Sun ONE Studio and Forte Developer Releases” on page 19 if you want to install this new Sun ONE Studio release on a computer that contains previous Sun ONE Studio releases or Forte Developer releases.

- If you want to install in the `/opt` directory on the source computer, click Next. If you have installed a previous release of Sun ONE Studio software or Forte Developer software in the `/opt` directory on the source computer, you must choose a different installation directory.
- If you want to install the software in a directory other than the `/opt` directory on the source computer, type the new location in the text field or browse for another location. If you do not have permission to write to the directory you select, the installer asks you if you want to change permissions. You must have write permission for the selected directory before you can proceed with installation. See the `chmod(1)` man page for information on changing directory permissions.

11. Click Next when you have entered the installation directory.

If you selected Custom Install for any of the products in the Product Selection pane, a Subcomponent Selection pane is displayed for each of those products. If you did not select Custom Install for any of the products, skip to Step 15.

12. By default, all subcomponents are selected for installation. Deselect any subcomponents you do not want to install by clicking their checkboxes to remove the check marks. Click Next when the pane shows check marks for only the components you want to install.

Note – If you are installing additional products in the same installation directory using a previously installed serial number, the installer will not reinstall products that exist in that installation directory.

13. In the Enter Serial Number pane, click the 60-day Trial Serial Number button to generate the 60-day trial serial number or enter your permanent serial number in the text box. See “Locating the Product Serial Number” on page 21 for information on finding the serial number.

14. Click Next to install the serial number.

If you are entering a permanent serial number to upgrade from a trial serial number and your product is installed, you can exit the installer.

15. After the installer checks for adequate disk space, the Ready to Install pane appears.

Verify that the disk space shown at the top of the Ready to Install pane is sufficient to install the products you have selected.

16. In the Ready to Install pane, verify that the items you want to install are listed.

- If the products you want are listed, click Install Now.
- If you want to install more products, click Back to return to the Product Selection pane, make your selections, and click Next to return to the Ready to Install pane.

The Installing pane appears with a progress indicator. When installation is complete, the Installation Summary pane appears.

17. If you want to view the installation log file for a product, click the Details button for that product in the Installation Summary pane.
18. Click Exit to finish the Sun ONE Studio 8 software installation.
19. Remove the CD-ROM from the CD-ROM drive.
20. (Optional) If you performed the installation using a remote display, on the display computer, disable client access by typing the following:

```
# xhost - source-computer-name
```

21. Exit from superuser privileges on the source computer by typing:

```
# exit
```

22. To set up your access to the Sun ONE Studio Compiler Collection tools and man pages, set your `PATH` and `MANPATH` variables by following the steps in “Setting Up Access to the Developer Tools and Man Pages” on page 37.
23. (Optional) If you installed the Sun ONE Studio 8 to Forte Developer 6 update 2 connector, see the Compiler Collection IDE Options Readme accessible through the documentation index page at </install-directory/SUNWspr0/docs/index.html> for additional steps required for using this connector.

Using the Command-Line Installer

These instructions describe how to install the Sun ONE Studio 8, Compiler Collection software and serial number using the command-line interface.

Note – Do not use the `pkgadd` command to install the software. Use the provided installer.

1. Decide if you want to install using a remote display. See “Choosing Local Display or Remote Display of the Installer” on page 22 for details.
2. If you are not currently superuser, become a superuser (root) by typing:

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

3. Insert the CD-ROM in the CD-ROM drive.

If the GUI installer starts, choose Exit to exit from the installer.

4. From the download directory, start the command-line installation by typing:

```
# /cdrom/studiocc_8_sparc/installer -nodisplay
```

Do not run the installer in the background.

Note – This is a multilanguage CD-ROM. If the operating system does not recognize the correct language, use the `-locales` option with `en` for English or `ja` for Japanese when you invoke the installer. For example:

```
/cdrom/studiocc_8_sparc/installer -nodisplay -locales en
```

5. The installer welcomes you. Press Enter to continue.

The Binary Software License Agreement text appears.

Note – The Enter key is equivalent to the Return key on some keyboards. Press the Enter key to accept the default selections during installation.

6. After reading the Binary Software License Agreement, type Accept at the prompt and press Enter to continue.

If you type `Decline`, you cannot continue with the installation.

7. The installer displays a list of the Sun ONE Studio 8 products with an installation option checked for each product.

To change the installation option for a product, type the number (0–6) that corresponds to the product and proceed to Step 8. To accept the Default installation for all products, press Enter and skip to Step 10.

Note – If you select Default Install for Solaris patches, the installer installs all of the required patches for the Sun ONE Studio 8, Compiler Collection software, which are listed in Appendix B. If you have previously installed these patches, installing the required patches does not downgrade your system.

8. Select the type of installation you want for the product you selected.

- For no installation, type 1. No Install deselects a product and the product is not installed.
- For default installation, type 2. Default Install installs all components and online documentation associated with that product.
- For custom installation, type 3. Custom Install allows you to select (in Step 10) the components of that product that you want to install.

The installer displays the updated product list.

9. To select or deselect another product for installation, type its number and return to Step 8. When you are finished selecting products and their types of installation, type 7 to continue and proceed to Step 10.

10. The installer prompts you to specify a location for installation.

- If you want to install in the `/opt` directory on the source computer, press Enter. If you have installed a previous release of Sun ONE Studio software or Forte Developer software in the `/opt` directory on the source computer, you must choose a different installation directory.
- If you want to select another directory, type the name of the new directory. If you do not have permission to write to the directory you select, the installer asks you if you want to change permissions. You must have write permission for the selected directory before you can proceed with installation. See the `chmod(1)` man page for information on changing directory permissions.

11. If you chose to install the Forte Developer 6 update 2 Connector, verify that the installation path of the Forte Developer 6 update 2 software is correct.

Note – To install the connector, you must already have Forte Developer 6 update 2 software installed.

a. If the path is incorrect, type the correct path at the prompt.

b. Press Enter to continue.

12. If you selected a custom installation for a product in Step 8, select or deselect a component for installation by entering the number that corresponds to the component and press Enter. When finished, type 0 and press Enter.

13. **Select Serial Number to generate a Serial Number, or enter your permanent serial number. See “Locating the Product Serial Number” on page 21 for information on finding the serial number.**

If you are entering a permanent serial number to upgrade from a trial serial number and your product is installed, you can exit the installer.

After verifying the serial number, the installer checks for disk space and warns you if you have insufficient disk space.

A list of products and components is shown for verification.

14. **Verify the list of products and components and do one of the following:**

- Type 1 if you want to proceed with installation.
- Type 2 if you want to start over from Step 5.
- Type 3 if you want to exit installation.

If you typed 1 to proceed with installation, a progress indicator appears.

15. **When installation is complete, you can view a product’s log file by typing the number that corresponds to that product. When you finish viewing the log files, type the number that corresponds to Done.**

16. **Remove the CD-ROM from the CD-ROM drive.**

17. **(Optional) If you performed the installation using a remote display, on the display computer, disable client access by typing the following:**

```
# xhost - source-computer-name
```

18. **Exit from superuser privileges on the source computer by typing:**

```
# exit
```

19. **To set up your access to the Sun ONE Studio Compiler Collection tools and man page, set your `PATH` and `MANPATH` variables by following the steps in “Setting Up Access to the Developer Tools and Man Pages” on page 37.**

20. **(Optional) If you installed the Sun ONE Studio 8 to Forte Developer 6 update 2 connector, see the Compiler Collection IDE Options Readme accessible through the documentation index page at `/install-directory/SUNWspro/docs/index.html` for additional steps required for using this connector.**

Using the Batch Installer

You can install the Sun ONE Studio Compiler Collection software, Sun Performance Library™ software, or Sun ONE Studio Source Distribution software with the batch installer for a default installation.

Note – Do not use the `pkgadd` command to install the software. Use the provided installer.

Follow these instructions for batch installation:

1. **Decide if you want to install using a remote display. See “Choosing Local Display or Remote Display of the Installer” on page 22 for details.**
2. **If you are not currently superuser, become a superuser (root) by typing:**

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

3. **Use the following command to run the batch installer:**

```
batch_installer [-s serial number] [-d dirname | -R root-path] [-h]
```

Note – Use the command `batch_installer_perflib` to install the Sun Performance Library software. Use the command `batch_installer_src` to install the Sun ONE Studio Source Distribution software.

See TABLE 2-1 for the options that are available for the `batch_installer` command.

TABLE 2-1 `batch_installer` Options and Option Descriptions

Option Name	Option Description
<code>-s <i>serial number</i></code>	Installs the permanent serial number. Without this option, a 60-day trial serial number is generated by default.

TABLE 2-1 `batch_installer` Options and Option Descriptions (*Continued*)

Option Name	Option Description
<code>-d <i>dirname</i></code>	Installs in directory <i>dirname</i> .
<code>-R <i>root-path</i></code>	Specifies the absolute path for the root system and product. Use this option in JumpStart installation to set the root directory.
<code>-h</code>	Displays usage information for the <code>batch_installer</code> command.

The `batch_installer` command and the options can be used in the scenarios shown in TABLE 2-2.

TABLE 2-2 Installation Scenarios Using the `batch_installer` Command and Options

Scenario	Command Typed at the Prompt
Install in the default directory and generate a 60-day trial serial number by default	<code>#!/batch_installer</code>
Install in the default directory with the permanent serial number	<code>#!/batch_installer -s <i>serial number</i></code>
Install in a directory other than the default directory	<code>#!/batch_installer -d /<i>dirname</i></code>
Install and change the root installation	<code>#!/batch_installer -R /<i>a/opt</i></code>

- 4. Choose the appropriate installation scenario from TABLE 2-2 to run the `batch_installer` command. For example, to use the options to generate the 60-day Trial serial number and install in a directory other than the default, type the following:**

```
# /cdrom/studiocc_8_sparc/batch_installer -d /dirname
```

The Binary Software License Agreement appears, and the installer checks for adequate disk space. The installer proceeds with installation, and the prompt returns when installation is complete.

- 5. (Optional) If you performed the installation using a remote display, on the display computer, disable client access by typing the following:**

```
% xhost - source-machine-name
```

6. Exit from superuser privileges on the source computer by typing:

```
# exit
```

7. Set your `PATH` and `MANPATH` variables. See “Setting Up Access to the Developer Tools and Man Pages” on page 37.

Using the Solaris JumpStart Installer

You can use the Solaris JumpStart™ installer on the Solaris™ 9 operating environment (*SPARC® Platform Edition*) and on the Solaris™ 9 operating environment (*x86 Platform Edition*) to automate the software installation process to install the Sun ONE Studio Compiler Collection software on multiple systems. An overview of the JumpStart installation steps is listed below. See the *Solaris 9 Installation Guide* for complete details of JumpStart installation.

Note – In the following instructions, substitute the download directory name for the `cdrom_path` that is used in the command-line examples.

1. Verify that you have more than one gigabyte of disk space in both the `swap` partition and the `/opt` partition on the source machine.
2. Copy the downloaded file into the `$SI_CONFIG_DIR` directory.
3. Create a finish script that resides on the source machine. The file must contain the following information:

```
#!/bin/sh
cd $SI_CONFIG_DIR/cdrom_path
./batch_installer -R /a
```

Note – The `batch_installer -d` option does not work in JumpStart installation.

See “Using the Batch Installer” on page 34 for information on the available `batch_installer` command options.

Refer to the *Solaris 9 Installation Guide* for further instruction on completing the JumpStart installation process.

Setting Up Access to the Developer Tools and Man Pages

Because the Sun ONE Studio Compiler Collection product components and man pages are not installed into the system directories `/usr/bin/` and `/usr/share/man`, you must change your `PATH` and `MANPATH` environment variables to enable use of the Sun ONE Studio Compiler Collection software.

Note – The paths shown in this section assume that Sun ONE Studio 8 packages are installed in the default `/opt` directory. If you installed the software in a different directory, replace `/opt` in the examples with that directory.

Set the `PATH` and `MANPATH` variables in your home `.cshrc` file if you are using the C shell, or your home `.profile` file if you are using the Bourne shell or Korn shell.

For more information about the `PATH` and `MANPATH` environment variables, the SunOS™ man page `csh(1)` describes the `PATH` variable for the C shell, the `sh(1)` man page describes the `PATH` variable for the Bourne shell, and the `ksh(1)` man page describes the `PATH` variable for the Korn shell. The `man(1)` man page describes the `MANPATH` variable.

Setting Your `PATH` Environment Variable So You Can Access Sun ONE Studio Compiler Collection Tools

To use the Sun ONE Studio Compiler Collection commands, your `PATH` environment variable must contain the path `/opt/SUNWspro/bin`. To determine whether you need to set your `PATH` environment variable, follow these steps:

1. Display the current value of the `PATH` variable by typing:

```
% echo $PATH
```

2. Review the output for a string of paths that contain `/opt/SUNWspro/bin`.

- If you find the path, your `PATH` variable is already set to access Sun ONE Studio Compiler Collection tools. (The `/opt` path can be replaced by an alternative install path.)
- If you do not find the path, set your `PATH` variable as described in the next step.

3. **Add the path `/opt/SUNWspro/bin/` to your `PATH` environment variable.**
 - If you are using the C shell, edit your home `.cshrc` file to add the path.
 - If you are using the Bourne shell or Korn shell, edit your home `.profile` file to add the path.

Setting Your `MANPATH` Environment Variable So You Can Access Sun ONE Studio Compiler Collection Man Pages

To access Sun ONE Studio Compiler Collection man pages with the `man` command, your `MANPATH` environment variable must contain the path `/opt/SUNWspro/man`. To determine whether you need to set your `MANPATH` environment variable, follow these steps:

1. **Request the `dbx(1)` man page by typing:**

```
% man dbx
```

2. **Review the output, if any.**

If the `man dbx` command cannot find the `dbx(1)` man page, or if the page that is displayed is not for the version of the software you just installed, you do not have the `MANPATH` variable set correctly. Set your `PATH` variable as described in the next step.

3. **Add the path `/opt/SUNWspro/man/` to your `MANPATH` environment variable.**
 - If you are using the C shell, edit your home `.cshrc` file to add the path.
 - If you are using the Bourne shell or Korn shell, edit your home `.profile` file to add the path.

Adding the Changes to the Appropriate Environment Variable

The following procedure lets you permanently add the paths for the Sun ONE Studio 8 tools and man pages to the appropriate environment variables so that all Sun ONE Studio 8 components are always available. These commands can also be entered at a shell prompt to temporarily enable that shell only.

1. **Add the Sun ONE Studio Compiler Collection software to your `PATH` and `MANPATH` variables.**

Note – The `PATH` and `MANPATH` variables must be set to include Sun ONE Studio Compiler Collection software in each user’s environment, which allows each user to use the installed software.

- If you are using the C shell (`csch`), first determine if your `MANPATH` variable is already set. At a shell prompt, type the command:

```
% echo $MANPATH
```

If the response is “Undefined variable” (C shell) or an empty line (Bourne shell or Korn shell), the `MANPATH` variable is not set. If paths to one or more `man` directories are displayed, the variable is set.

Now edit the `.cshrc` file in your home directory and add the following line at the end of the file:

```
set path=(/opt/SUNWspro/bin $path)
```

If the `MANPATH` variable is not already set, add the following line:

```
setenv MANPATH /opt/SUNWspro/man:/usr/share/man
```

If the `MANPATH` variable is already set, add the following line instead:

```
setenv MANPATH /opt/SUNWspro/man:$MANPATH
```

- If you are using the Bourne or Korn shells (`sh` or `ksh`), edit the `.profile` file in your home directory and add the following lines:

```
PATH=/opt/SUNWspro/bin${PATH:+:}${PATH}
MANPATH=/opt/SUNWspro/man:${MANPATH:=/usr/share/man}
```

Do not type any spaces in these two lines.

2. Save the `.cshrc` file or `.profile` file that you modified in Step 1.

3. Reinitialize your shell by executing the following command:

For the C shell, type:

```
source ~/.cshrc
```

For the Bourne shell or Korn shell, type:

```
. ~/.profile
```

Viewing the Sun ONE Studio 8, Compiler Collection Documentation

You can access the documentation for the Sun ONE Studio Compiler Collection software at the following locations:

- **Release Notes:** Available at <http://docs.sun.com/doc/816-6727>. Information in the release notes updates and extends information in all readme files.
- **Compiler Collection Documentation:** Product man pages, HTML versions of readmes, and manuals can be accessed from `/opt/SUNWspro/docs/index.html`.
- **Compiler Collection Developer Resources Portal:** For compiler collection documentation, see the documentation index on the Compiler Collection Developer Resources Portal. Point your browser to <http://www.sun.com/developers/studio>, click **Compiler Collection**, and then click **Documentation**. The portal also contains technical articles and knowledge base items.

Note – If your compiler collection software has not been installed in the default `/opt` directory, ask your system administrator for the equivalent path on your system.

You are now ready to use your Sun ONE Studio 8, Compiler Collection software.

Registering the Compiler Collection Software

After you have completed your installation, you can register your product with Sun to receive information on updates and product news. Go to the product registration page at

<https://www.sun.com/cgi-bin/software/sundev/prodreg.cgi?scc>.

Uninstalling Sun ONE Studio 8 Software

This chapter describes how to uninstall the Sun ONE Studio 8 software products and associated patches that are installed on your system.

When you successfully install your software, an uninstaller is automatically generated for each product. There are two ways to use this uninstaller to remove the Sun ONE Studio 8 software:

- Use the graphical user interface (GUI) uninstaller. See “Using a Graphical User Interface Uninstaller” on page 45.
- Do a command-line uninstallation if you do not have graphical user interface capabilities. See “Using a Command-Line Uninstaller” on page 47.

Note – Do not use the `pkgrm` command to uninstall the software. Use the provided uninstaller.

TABLE 3-1 shows the software names and the uninstaller `.class` file names that you use to uninstall the Sun ONE Studio 8 software.

TABLE 3-1 Software Names and Related Uninstaller `.class` File Names

Software Name	Uninstallation <code>.class</code> File Names
Sun ONE Studio 8 Compilers	<code>uninstall_Compilers.class</code>
Patches installed with Sun ONE Studio 8 software	<code>uninstall_Solaris_patches.class</code>
Sun Performance Library 8	<code>uninstall_Sun_Performance_Library.class</code>
Source Distribution	<code>uninstall_Source_Distribution.class</code>

TABLE 3-1 Software Names and Related Uninstaller .class File Names (*Continued*)

Software Name	Uninstallation .class File Names
Sun ONE Studio 8 Tools	uninstall_Tools.class
Sun ONE Studio 8, Compiler Collection Documentation	uninstall_Documentation.class
Sun ONE Studio 8 Connector to Forte Developer 6 update 2	uninstall_Connector_to_Forte_Developer_6_update_2.class

Choosing Local Display or Remote Display of an Uninstaller

You can display an uninstaller either locally or remotely while you are uninstalling Sun ONE Studio 8 software.

To uninstall using the local display, proceed to “Using a Graphical User Interface Uninstaller” on page 45 or “Using a Command-Line Uninstaller” on page 47. To uninstall using a remote display, follow the steps in “Preparing to Uninstall Using a Remote Display” on page 44, and then proceed to “Using a Graphical User Interface Uninstaller” on page 45 or “Using a Command-Line Uninstaller” on page 47.

Preparing to Uninstall Using a Remote Display

To prepare for uninstallation using a remote display, follow these steps:

- 1. On the display computer, enable client access to the X server by typing the following at a 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 on which the uninstaller will be running.

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

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

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

If you use the C shell, type:

```
# setenv DISPLAY display-computer-name:0.0
```

If you use the Bourne shell, type:

```
# DISPLAY=display-computer-name:0.0  
# export DISPLAY
```

If you use the Korn shell, type:

```
# export DISPLAY=display-computer-name:0.0
```

Replace *display-computer-name* with the output of the `/usr/bin/hostname` command on the display computer, which is the computer on which the uninstaller will be displayed.

4. Proceed to “Using a Graphical User Interface Uninstaller” on page 45 or “Using a Command-Line Uninstaller” on page 47.

Using a Graphical User Interface Uninstaller

To run an uninstaller, follow these steps:

1. If you have not already done so, become a superuser (root) by typing:

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

2. Go to the product directory by typing:

```
# cd /var/sadm/prod/com.sun.sls8_compiler_collection_fcs
```

3. Determine the uninstaller .class file name for the software you want to uninstall by typing `ls -l` to see the list of uninstaller .class file names or referring to TABLE 3-1.

4. To start the uninstaller, type the following, using the appropriate uninstaller .class file name.

Note – Do not include the .class extension of the file name when you type the command.

```
# /usr/bin/java uninstall_uninstaller-class-file-name
```

For example, to remove the compilers, type:

```
# /usr/bin/java uninstall_Compilers
```

The Uninstalling window appears. The Welcome pane shows you which products will be uninstalled.

5. In the Welcome pane, click Next to continue.

The Select Type of Uninstall pane appears.

6. In the Select Type of Uninstall pane, select the type of uninstallation you want:

If you want to uninstall all of the components of the product, select Full. Click Next and proceed to Step 8.

If you want to uninstall only certain components of the product, select Partial. Click Next and proceed to Step 7.

7. In the Component Selection pane, deselect the components you do not want to uninstall by clicking their checkboxes to remove the check marks. Click Next to continue.

8. In the Ready to Uninstall pane, click Uninstall Now.

The Uninstalling pane appears with a progress indicator. When uninstallation is complete, the Uninstallation Summary pane appears. Click the Details button to view the log files.

9. Click Exit to exit the uninstaller.

10. (Optional) If you performed the uninstallation using a remote display, on the display computer, disable client access by typing the following:

```
% xhost - source-computer-name
```

11. Exit from superuser privileges on the source computer by typing:

```
# exit
```

Using a Command-Line Uninstaller

To remove software products with the command-line uninstaller, follow these steps:

1. If you have not done so, become a superuser (root) by typing:

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

2. Go to the product directory by typing:

```
# cd /var/sadm/prod/com.sun.sls8_compiler_collection_fcs
```

3. To determine the uninstaller `.class` file name for the software you want to uninstall, type `ls -l` to see the list of uninstaller `.class` file names or refer to TABLE 3-1.
4. Type one of the following commands to run the command-line uninstaller, using the appropriate uninstaller `.class` file name.

Note – Do not include the `.class` extension of the file name when you type the command.

- To uninstall a product using its interactive command-line uninstaller, type:

```
# /usr/bin/java uninstall_uninstaller-class-file-name -nodisplay
```

For example, to uninstall the compilers, type:

```
# /usr/bin/java uninstall_Compilers -nodisplay
```

The installer shows you which product will be uninstalled. Proceed to Step 5.

- To uninstall the entire product without any additional prompts (in silent mode), type:

```
# /usr/bin/java uninstall_uninstaller-class-file-name -nodisplay -noconsole
```

The product is uninstalled and the uninstaller exits. Proceed to Step 10.

- 5. Press Enter to continue.**
- 6. If you want to uninstall all components of the product, type 1 and skip to Step 9.**

All components are automatically removed. A progress indicator appears.
- 7. If you want to uninstall only certain components of the product, type 2.**

The uninstaller displays a list of the components of the product with checked boxes indicating which components will be uninstalled.
- 8. If you do not want a component uninstalled, type its number to deselect it for uninstallation. Otherwise, type 0.**

The uninstaller displays an updated list showing which components of the product will be uninstalled. Select another component that you want uninstalled and type its number, or type 0 to proceed with uninstallation.
- 9. The uninstaller lists the components that will be uninstalled and asks you what you would like to do.**
 - Type 1 if you want to uninstall the product components now, and proceed to Step 10.
 - Type 2 if you want to start over with the uninstallation process, and go back to Step 3.
 - Type 3 if you want to exit the uninstaller, and proceed to Step 11.
- 10. When uninstallation is complete, you have the option to view the product's log file by typing its corresponding number. When finished, type the number that corresponds to Done.**

The installer exits.

11. (Optional) If you performed the uninstallation using a remote display, on the display computer, disable client access by typing the following:

```
% xhost - source-computer-name
```

12. Exit from superuser privileges on the source computer by typing:

```
# exit
```


Troubleshooting

This chapter describes how to fix problems that can occur during Sun ONE Studio Compiler Collection software installation and uninstallation.

Installing in a Directory That Is Reached by a Symbolic Link

You can install in a directory where part of the path is a symbolic link. An example for installing in a path reached by a symbolic link is if the default directory `/opt` does not have enough disk space. You need to complete the steps below to prevent the installer from bypassing the symbolic link and installing in an actual filesystem.

Note – For example, if you choose to install in `/opt`, the following steps show you how to create a symbolic link of `/opt/SUNWspro` that points to `/export/opt_SUNWspro`. You can substitute your directory names for the example names.

1. Become a superuser (root) by typing:

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

2. Save the existing symbolic link by typing:

```
# mv /opt/SUNWspro /mytemp
```

3. Make a new `/opt/SUNWspro` directory, which will serve as a mount point, by typing:

```
# mkdir /opt/SUNWspro
```

4. Mount the target directory so it is available as `/opt/SUNWspro` by typing:

```
# mount -F nfs localhost:/export/opt_SUNWspro /opt/SUNWspro
```

5. Install the product in the `/opt` directory.

6. Unmount the target directory by typing:

```
# umount /opt/SUNWspro
```

7. Remove the empty `/opt/SUNWspro` mount point by typing:

```
# rmdir /opt/SUNWspro
```

8. Restore the symbolic link that you moved in Step 2:

```
# mv /mytemp /opt/SUNWspro
```

9. Exit from superuser privileges by typing:

```
# exit
```

Product Registry Problems

If you encounter installation or uninstallation problems that involve a corrupt `productregistry` file, you can sometimes use the Solaris Product Registry Tool to locate and fix the problem.

How Do I Identify and Fix a Failed Installation?

If some packages are not properly installed, you will have problems using the Sun ONE Studio Compiler Collection software. For example, if you used the `pkgadd` command to install the software, you have corrupted the `productregistry` file. To verify whether all packages are installed properly, follow these instructions:

1. Become a superuser (root) by typing:

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

2. Open the Solaris Product Registry tool by typing:

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

3. In the left column of the tool, look at the list under the heading Registered Software.

If a yellow triangle appears adjacent to the product name, then the product is not installed properly.

4. Select the product name and click the Uninstall button.

The Uninstall Failed dialog box opens.

5. Read the message in the box, and then click OK if you want to uninstall the product.

The Interactive Uninstall dialog box opens.

6. Follow the instructions in the subsequent dialog boxes until uninstallation is complete.

Once the uninstallation is complete, you can reinstall the product software using the product installer. See Chapter 2 for product installation instructions.

How Do I Fix a Failed Uninstallation?

If the uninstaller quits before all the product files are deleted, rerunning the uninstaller will not delete the remaining product files. The product files have been marked as deleted in the `productregistry` file, so the uninstaller does not remove the remaining files. To completely remove the product files, use the Solaris Product Registry tool, as described in the following procedure:

1. Become a superuser (root) by typing:

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

2. Open the Solaris Product Registry tool by typing:

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

3. In the left column of the tool, select all product names containing S1S8 or Sun ONE Studio 8 and click the Uninstall button.

The Uninstall Failed dialog box opens.

4. Read the message in the box, and then click OK if you want to uninstall the product.

The Interactive Uninstall dialog box opens.

5. Follow the instructions in the subsequent dialog boxes until uninstallation is complete.

Once the uninstallation is complete, you can reinstall the product software using the product installer. See Chapter 2 for product installation instructions.

What Can I Do If the `productregistry` File Is Corrupted?

If you attempted to fix the failed installation or uninstallation by using the steps in “How Do I Identify and Fix a Failed Installation?” on page 53 or “How Do I Fix a Failed Uninstallation?” on page 53, and you are still having problems, you need to delete the corrupted `productregistry` file from your system. The `productregistry` file is typically corrupted if you attempt to install or uninstall the software using the `pkgadd` command or `pkgrm` command.

Note – Deleting the `productregistry` file removes the entries for the Sun ONE Studio 8, Compiler Collection software and the registry entries for the Solaris operating environment and other products. Review the steps in “How Do I Identify and Fix a Failed Installation?” on page 53 and “How Do I Fix a Failed Uninstallation?” on page 53 before proceeding with the steps below.

1. Become a superuser (root) by typing:

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

2. Go to the `productregistry` file by typing the following command at the prompt:

```
% cd /var/sadm/install
```

3. Remove the `productregistry` file by typing:

```
# rm productregistry
```

4. Exit from superuser privileges by typing:

```
# exit
```

Once you have removed the `productregistry` file, you can reinstall the product software using the product installer. See Chapter 2 for product installation instructions.

Log Files and Serial Number Files

When you install the Sun ONE Studio Compiler Collection software, log files that contain a record of the installation are automatically generated.

How Can I View the Installation Log Files?

To troubleshoot installation problems by viewing the log files, do the following:

1. Go to the `logs` directory by typing at the prompt:

```
% cd /var/sadm/install/logs
```

2. View the file by typing:

```
% more Compilers_install.A03200125
```

The file extension varies for each log file.

How Do I Find the Installed Serial Number?

You need the serial number to register the product. You can find the serial number by using the `snit` tool.

To find and view the contents of the `serial.dat` file, type the following:

```
% /install-directory/SUNWspr0/bin/snit -d -f /install-  
directory/SUNWspr0/prod/lib/serial.dat
```

For more information, see the `snit(1)` man page. If `snit` is not recognized as a command, set your `PATH` environment variable, as described in “Setting Up Access to the Developer Tools and Man Pages” on page 37.

What Can I Do If I Lose My Serial Number?

If you lose your serial number and cannot view the contents of the `serial.dat` file or display your serial number with the `snit` command, contact customer support at <http://www.sun.com/software/sundev/suncc/support.html>

Installing with a Remote Display Installation

The following topics include problems that can occur during a remote display installation.

What If the Installation Fails on an NFS-Mounted Filesystem?

If the installation fails on an NFS-mounted filesystem, ensure that you have write permission on that filesystem. You can check for write permission by following the instructions below. See “Preparing to Install Using a Remote Display With an NFS-Mounted Filesystem” on page 24 for more information about installing on an NFS-mounted filesystem.

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.

How Do I Initialize a ToolTalk Software Session During Remote Display Installation?

If the graphical user interface installer stalls during installation, you can initialize a ToolTalk™ software session by doing the following:

1. Exit from the installer.

2. If you are not currently superuser (root), become a superuser by typing:

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

3. Type at the prompt:

```
# /usr/dt/bin/ttsession -c
```

4. Ensure that the `$DISPLAY` is set.

The sections “Preparing to Install Using a Remote Display” on page 23 and “Preparing to Install Using a Remote Display With an NFS-Mounted Filesystem” on page 24 describe how to set the remote display.

5. Start the installer by typing:

```
# /cdrom/studiocc_8_sparc/installer
```

Follow the instructions in Chapter 2 to complete the installation.

What Can I Do If the Batch Installer Stalls?

If you enter an invalid parameter when you start the batch installer, the installer stalls and does not complete the installation. Some common errors include typing an incorrect serial number, including two different directory names, or invoking the installer when you do not have enough disk space.

Follow these steps to restart the batch installer:

1. View the log files for any error messages by typing:

```
% cd /var/sadm/install/logs
```

2. To stop the installer, press Control+C.

3. To install the product using the batch installer, see “Using the Batch Installer” on page 34 of Chapter 2.

Sun ONE Studio 8 Components and Packages

This appendix provides information about the Sun ONE Studio 8, Compiler Collection products available for software development. This appendix also lists the components and packages that comprise each product.

TABLE A-1 lists the Sun ONE Studio 8, Compiler Collection product package metacluster configuration information for the Solaris™ operating environment (*SPARC® Platform Edition*). Each product metacluster contains components, which are listed in TABLE A-2.

TABLE A-2 lists the Sun ONE Studio 8, Compiler Collection product package component and configuration information for the Solaris operating environment (*SPARC Platform Edition*). Some of the components appear in the Package and Component Lists for other components. Component names are in all uppercase characters. For example, the `SPROLANG` component is listed in the Package and Component Lists for the `SPROCC` component and the `SPROCCC` component, indicating that all of the packages in the `SPROLANG` component are included in the `SPROCC` component and the `SPROCCC` component.

TABLE A-3 lists the Sun ONE Studio 8, Compiler Collection product package metacluster configuration information for the Solaris™ operating environment (*x86 Platform Edition*). Each product metacluster contains components, which are listed in TABLE A-4.

TABLE A-4 lists the Sun ONE Studio 8, Compiler Collection product package component and configuration information for the Solaris operating environment (*x86 Platform Edition*). Some of the components appear in the Package and Component Lists for other components. Component names are in all uppercase characters. For example, the `SPROLANG` component is listed in the Package and Component Lists for the `SPROCC` component and the `SPROCCC` component, indicating that all of the packages in the `SPROLANG` component are included in the `SPROCC` component and the `SPROCCC` component.

TABLE A-1 Sun ONE Studio 8 Product Package Metacluster Components for Solaris
SPARC Platform Edition

Metacluster Description and Name	Component Description	Component Name
Sun ONE Studio 8 Compilers SPROMCPL	Sun ONE Studio 8 Compilers C	SPROCC
	Sun ONE Studio 8 Compilers C++	SPROCCC
	Sun ONE Studio 8 Compilers Fortran	SPROCFOR
	Sun ONE Studio 8 Compilers Fortran 95 with Legacy Libraries	SPROCFORL
	Sun ONE Studio 8 Inventory Files	SPROCFD
	GUI interface support	SPROsvc
Sun ONE Studio 8 Tools SPROMTOOL	Sun ONE Studio 8 LockLint, Product Software	SPROCLKLT
	Sun ONE Studio 8 Debugging Tools	SPROCDXB
	Sun ONE Studio 8 Garbage Collector	SPROCLGC
	Sun ONE Studio 8 Performance Analyzer	SPROCPRFA
	Sun ONE Studio 8 Building Software	SPROCBLD
	Sun ONE Studio Demo	SPROCDEMO
Sun ONE Studio Documentation Set SPROMDOCS	Sun ONE Studio 8 Documentation	SPROCDOCS
Sun Performance Library 8 SPROMPLIB	Sun ONE Studio 8 Libraries	SPROCPERF
Sun ONE Studio 8 Source Distribution SPROMSRC	DWARF Library	DWSRC
	Red-Black Tree Library	RDBLKSRC
	Sun ONE Studio 8 STLPort	STLSRC

TABLE A-2 Sun ONE Studio 8 Product Package Components for Solaris *SPARC Platform Edition*

Component Name	Component Description	Package and Component List
Sun ONE Studio 8 Compilers C SPROCC	Common components	SPROLANG
	Sun ONE Studio incremental linker	SPROILD
	Compilers C	SPROcc
	Common tools	SPROutool
	Man pages/online information for C	SPROmrcc
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Man pages/Online information for source browser	SPROmrsbe
	Source browser	SPROsbe
	Sunmath library	SPROSM
	Serial number installation tool and miscellaneous files	SPROCMISC
	GUI interface support	SPROsvc
	Compilers C++ SPROCPL	Compiler C++
C++ Libraries (64-bit)		SPROcplx
Sun ONE Studio 8 Compilers C++ SPROCC	Common components	SPROLANG
	Incremental linker	SPROILD
	Compilers C++	SPROCPL
	Common tools	SPROutool
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Man pages/Online information for source browser	SPROmrsbe
	Source browser	SPROsbe
	STLport	SPROSTLPORT
	C++ Complex Library	SPROcmp1
	Man pages/Online information for C++	SPROmr cpl
	Tools.h++ 7.1	SPROTL7
	Sun ONE Studio Standard Library for C++	SPROSCL

TABLE A-2 Sun ONE Studio 8 Product Package Components for Solaris *SPARC Platform Edition (Continued)*

Component Name	Component Description	Package and Component List
Sun ONE Studio Compilers Common Components SPROLANG	Sunmath library	SPROSM
	Serial number installation tool and miscellaneous files	SPROCMISC
	GUI interface support	SPROsvc
	Common components	SPROlang
	Common components (64-bit)	SPROlangx
	Linker stab library	SPROsblld
	Linker stab library (64-bit)	SPROsblldx
	Unbundled shared libcx	SPROlcxs
	DWARF support library	SPROdwrfb
	Red-Black tree library	SPROrdbkb
Sun ONE Studio Standard Library for C++ SPROSCCL	DWARF support library 64-bit	SPROdwrfx
	Red-Black tree library V9	SPROrdbkbx
	Standard Class Library for C++	SPROscl
	Standard Class Library for C++ (64-bit)	SPROsclx
Sun ONE Studio Tools.h++ 7.1 SPROTL7	Standard Class Library man pages for C++	SPROmrstd
	Tools.h++ 7.1 Class Library for C++	SPROtlbn7
	Tools.h++ 7.1 Class Library for C++	SPROtl17
	Tools.h++ 7.1 Class Library for C++ (64-bit)	SPROtl17x
Sun ONE Studio Incremental Linker SPROILD	Tools.h++ 7.1 Class Library for C++ (64-bit)	SPROtl17x
	Incremental Linker	SPROild
	Incremental Linker 64-bit	SPROildx
Sun ONE Studio C9X Math Library SPROM9XS	C9X Math Library	SPROM9xs
	C9X Math Library (64-bit)	SPROM9xsx
	C9X Math Library Profiled (64-bit)	SPROM9xpx
Sun ONE Studio Sunmath Library SPROSM	libsunmath shared/profiled (64-bit)	SPROsmpx
	libsunmath shared (64-bit)	SPROsmsx
	Unbundled shared libsunmath	SPROsunms

TABLE A-2 Sun ONE Studio 8 Product Package Components for Solaris *SPARC Platform Edition (Continued)*

Component Name	Component Description	Package and Component List
STLport, Source Distribution STLSRC	STLport version 4 source	SPROst14h
Sun ONE Studio STPport SPROSTLPORT	STLport version 4 static library	SPROst14a
	STLport version 4 source	SPROst14h
	STLport version 4 dynamic library	SPROst14o
	STLport version 4 dynamic library (64-bit)	SPROst14x
	STLport version 4 dynamic library (64-bit)	SPROst14y
Sun ONE Studio Compilers Fortran Cluster SPROCFOR	Compiler FORTRAN 77 Tools	SPROftool
	Sun ONE Studio Incremental Linker	SPROILD
	Common components	SPROLANG
	Compiler Fortran 95 libraries	SPROLIB90
	Compiler Fortran 90	SPROf90
	Common tools	SPROutool
	Man pages and online information for Fortran 95	SPROmrf90
	Man page and online information for FORTRAN 77	SPROmrf77
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Sunmath library	SPROSM
	Man pages/Online information for source browser	SPROmrsbe
	Source browser	SPROsbe
	Serial number installation tool and miscellaneous files	SPROCMISC
GUI interface support	SPROsvc	
Sun ONE Studio Compilers Fortran 95 Libraries SPROLIB90	Fortran 95 static libraries	SPRO190
	Fortran 95 dynamic libraries	SPRO190s
	Fortran 95 dynamic libraries (64-bit)	SPRO190sx
	Fortran 95 static libraries (64-bit)	SPRO190x

TABLE A-2 Sun ONE Studio 8 Product Package Components for Solaris *SPARC Platform Edition (Continued)*

Component Name	Component Description	Package and Component List
Sun ONE Studio Compilers Fortran 95 with Legacy Libraries SPROCFORL	Compiler FORTRAN 77 Tools	SPROftool
	Common components	SPROLANG
	FORTTRAN 77 dynamic libraries (64-bit)	SPRO177s
	FORTTRAN 77 dynamic libraries (64-bit)	SPRO177sx
	Compilers Fortran 95 libraries	SPROLIB90
	Compiler Fortran 90	SPROf90
	Sun ONE Studio incremental linker	SPROILD
	Common tools	SPROutool
	Man pages and online information for Fortran 77	SPROmrf77
	Man pages and online information for Fortran 95	SPROmrf90
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Sunmath library	SPROSM
	Man pages/Online information for source browser	SPROmrsbe
	Source browser	SPROsbe
Serial number installation tool and miscellaneous files	SPROCMISC	
GUI interface support	SPROsvc	
Sun ONE Studio LockLint, Product Software SPROCLKLT	Locklint software	SPRO1klnt
	Man pages and online information	SPROmrmp
Sun ONE Studio DBX Debugging Tools SPROCDBX	Debugging tools	SPROdbx
	Debugging tools (64-bit)	SPROdbxx
	Man pages and online information for dbx	SPROmrdbx
	Debugging tools	SPROjdbx
	Debugging tools (64-bit)	SPROjdbxx
Serial number installation tool and miscellaneous files	SPROCMISC	

TABLE A-2 Sun ONE Studio 8 Product Package Components for Solaris *SPARC Platform Edition (Continued)*

Component Name	Component Description	Package and Component List
Sun ONE Studio 8 Building Software SPROCBLD	Common compiler man pages/online information	SPROmrcom
	Distributed make	SPROdmake
Sun ONE Studio 8 Inventory Files SPROCFD	Inventory files	SPROfd
DWARF Library, Source Distribution DWSRC	DWARF library	SPROdwrf s
RDBLKS, Source Distribution RDBLKSRC	Red-Black tree library	SPROrdbks
Sun Performance Archive Libraries SPROPL	Performance Library 32-bit (Archive/MT)	SPROplm
	Performance Library 64-bit (Archive/MT)	SPROplmx
	Performance Library 32-bit (Archive)	SPROpl
	Performance Library 64-bit (Archive)	SPROplx
Sun Performance Shared Libraries SPROPLS	Performance Library 32-bit (Shared/MT)	SPROplms
	Performance Library 64-bit (Shared/MT)	SPROplmsx
	Performance Library 32-bit (Shared)	SPROpls
	Performance Library 64-bit (Shared)	SPROplsx
Sun ONE Studio Garbage Collector SPROLGC	Garbage collector library for C++	SPROgc
	Garbage collector library 1.0 for C++	SPROLgc
	Garbage collector man pages for C++	SPROmrgc
Sun ONE Studio Garbage Collector 64-bit Library 1.0 SPROLGCX	Garbage collector library for C++	SPROgcx
	Garbage collector library 1.0 for C++	SPROLgcx
Sun ONE Studio Garbage Collector Cluster SPROCLGC	Sun ONE Studio Garbage Collector	SPROLGC
	Sun ONE Studio Garbage Collector 64-bit Library 1.0	SPROLGCX

TABLE A-2 Sun ONE Studio 8 Product Package Components for Solaris *SPARC Platform Edition (Continued)*

Component Name	Component Description	Package and Component List
Sun Performance Library SPROCPERF	Common components	SPROLANG
	Compiler Fortran 95 libraries	SPROLIB90
	Sun Performance Library man pages	SPROmrpl
	Performance Library common components	SPROplg
	Unbundled shared libsunmath	SPROsunms
	libsunmath shared (64-bit)	SPROsmsx
	Sun performance archive libraries	SPROPL
	Sun performance shared libraries	SPROPLS
	Sun Interval Performance Library common components	SPROiplg
	Sun Interval Performance Library documentation	SPROmripl
	Sun Interval Performance Library (32-bit)	SPROipl
Sun Interval Performance Library (64-bit)	SPROiplx	
Sun ONE Studio Performance Analyzer SPROCPRFA	Man pages and online information for Performance Analyzer	SPROmrpan
	Performance Analyzer	SPROprfan
	Performance Analyzer (64-bit)	SPROprfax
	Serial number installation tool and miscellaneous files	SPROCMISC
Sun ONE Studio Documentation Set SPROCDOS	Copyright and images	SPROhtbas
	Release notes	SPROhtrel
	Tools.h++ 7.1 documentation	SPROhttl7
	Standard library C++ documentation	SPROhtstd
	Installation documentation	SPROhtins
	Fortran documentation	SPROhtftn
	C compilers documentation	SPROhtcc
	Common tools documentation	SPROhtcom
	C++ compilers	SPROhtcpl
	OpenMP API user's guide	SPROhtomp
Performance library documentation	SPROhtpl	

TABLE A-2 Sun ONE Studio 8 Product Package Components for Solaris *SPARC Platform Edition (Continued)*

Component Name	Component Description	Package and Component List
	Analyzer and dbx documentation	SPROhtws
Sun ONE Studio Demo SPROCDEMO	Demo files	SPROdemo
Sun ONE Studio 8 Connector to Forte Developer 6 update 2 SPROCKRYPT	Sun ONE Studio 8 connector to Forte Developer 6 update 2	SPROkrypt
Serial Number Installation Tool and Misc files SPROCMISC	Serial number installation tool Sun ONE Studio 8 installer misc files Sun ONE Studio 8 inventory files	SPROsnit SPROpnsn SPROfd

TABLE A-3 Sun ONE Studio 8 Product Package Metacluster Components for Solaris *x86 Platform Edition*

Metacluster Description and Name	Component Description	Component Name
Sun ONE Studio 8 Compilers SPROMCPL	Sun ONE Studio 8 Compilers C	SPROCC
	Sun ONE Studio 8 Compilers C++	SPROCCC
Sun ONE Studio 8 Tools SPROMTOOL	Sun ONE Studio LockLint, Product Software	SPROCLKLT
	Sun ONE Studio 8 Debugging Tools	SPROCDBX
	Sun ONE Studio 8 Garbage Collector	SPROCLGC
	Sun ONE Studio 8 Performance Analyzer	SPROCPRFA
	Sun ONE Studio 8 Building Software	SPROCBLD
	Sun ONE Studio Demo	SPROCDEMO
Sun ONE Studio 8 Documentation Set SPROMDOCS	Sun ONE Studio 8 Documentation	SPROCDOCS
Sun ONE Studio 8 Source Distribution SPROMSRC	DWARF Library	DWSRC
	Red-Black Tree Library	RDBLKSRC
	Sun ONE Studio 8 STLport	STLSRC

TABLE A-4 Sun ONE Studio 8 Product Package Components for Solaris *x86 Platform Edition*

Component Name	Component Description	Package and Component List
Sun ONE Studio 8 Compilers C SPROCC	Common components	SPROLANG
	Sun ONE Studio incremental linker	SPROILD
	Compilers C	SPROcc
	Common tools	SPROutool
	Man pages/online information for C	SPROmrcc
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Man pages/Online information for source browser	SPROmrsbe
	Source browser	SPROsbe
	Sunmath library	SPROSM
	Serial number installation tool and miscellaneous files	SPROCMISC
	GUI interface support	SPROsvc
Compilers C++ SPROCPL	Compiler C++	SPROcpl
Sun ONE Studio 8 Compilers C++ SPROCC	Common components	SPROLANG
	Incremental linker	SPROILD
	Compilers C++	SPROCPL
	Common tools	SPROutool
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Man pages/Online information for source browser	SPROmrsbe
	Source browser	SPROsbe
	STLport	SPROSTLPORT
	C++ Complex Library	SPROcml
	Man pages/Online information for C++	SPROmrcpl
	Tools.h++ 7.1	SPROTL7
Sun ONE Studio Standard Library for C++	SPROSCCL	
Sunmath library	SPROSM	

TABLE A-4 Sun ONE Studio 8 Product Package Components for Solaris *x86 Platform Edition (Continued)*

Component Name	Component Description	Package and Component List
	Serial number installation tool and miscellaneous files	SPROCMISC
	GUI interface support	SPROsvc
Sun ONE Studio Compilers Common Components SPROLANG	Common components	SPROlang
	Linker stab library	SPROsbld
	DWARF support library	SPROdwrfb
	Red-Black tree library	SPROdbkb
Sun ONE Studio Standard Library for C++ SPROSCL	Standard Class Library for C++	SPROscl
	Standard Class Library man pages for C++	SPROmrstd
Sun ONE Studio Tools.h++ 7.1 SPROTL7	Tools.h++ 7.1 Class Library for C++	SPROtlbn7
	Tools.h++ 7.1 Class Library for C++	SPROtl17
Sun ONE Studio Incremental Linker SPROILD	Incremental Linker	SPROild
Sun ONE Studio C9X Math Library SPROM9XS	C9X Math Library	SPROM9xs
Sun ONE Studio Sunmath Library SPROSM	Unbundled shared libsunmath	SPROsunms
STLport, Source Distribution STLSRC	STLport version 4 source	SPROst14h
Sun ONE Studio STLport SPROSTLPORT	STLport version 4 static library	SPROst14a
	STLport version 4 source	SPROst14h
	STLport version 4 dynamic library	SPROst14o
Sun ONE Studio Debugging Tools SPROCDXB	Debugging tools	SPROdbx
	Man pages and online information for dbx	SPROmrdbx
	Debugging tools	SPROjdbx
	Serial number installation tool and miscellaneous files	SPROCMISC

TABLE A-4 Sun ONE Studio 8 Product Package Components for Solaris *x86 Platform Edition (Continued)*

Component Name	Component Description	Package and Component List
Sun ONE Studio 8 Building Software SPROCBLD	Common compiler man pages/online information	SPROmrcom
	Distributed make	SPROdmake
Sun ONE Studio 8 Inventory Files SPROCFD	Inventory files	SPROfd
DWARF Library, Source Distribution DWSRC	DWARF library	SPROdwrfs
RDBLKS, Source Distribution RDBLKSRC	Red-Black tree library	SPROrdbks
Sun ONE Studio Garbage Collector SPROLGC	Garbage collector library for C++	SPROgc
	Garbage collector library 1.0 for C++	SPROlgc
	Garbage collector man pages for C++	SPROmrgc
Sun ONE Studio Garbage Collector Cluster SPROCLGC	Sun ONE Studio Garbage Collector	SPROLGC
Sun ONE Studio Performance Analyzer SPROCPRFA	Man pages and online information for Performance Analyzer	SPROmrpan
	Performance Analyzer	SPROprfan
	Serial number installation tool and miscellaneous files	SPROCMISC
Sun ONE Studio Documentation Set SPRODOCS	Copyright and images	SPROhtbas
	Release notes	SPROhtrel
	Tools.h++ 7.1 documentation	SPROhttl7
	Standard library C++ documentation	SPROhtstd
	C compilers documentation	SPROhtcc
	Common tools documentation	SPROhtcom
	C++ compilers	SPROhtcpl
Analyzer and dbx documentation	SPROhtws	

TABLE A-4 Sun ONE Studio 8 Product Package Components for Solaris *x86 Platform Edition (Continued)*

Component Name	Component Description	Package and Component List
Serial Number	Serial number installation tool	SPROsnit
Installation Tool and Misc files	Sun ONE Studio 8 installer misc files	SPROpnsn
SPROCMISC	Sun ONE Studio 8 inventory files	SPROfd
Sun ONE Studio 8 Connector to Forte Developer 6 update 2	Sun ONE Studio 8 connector to Forte Developer 6 update 2	SPROkrypt
SPROCKRYPT		

Patch Identification Numbers and Descriptions

Operating environment patches and product patches are provided for Sun ONE Studio 8, Compiler Collection software. These patches are required for the proper operation of the compilers and tools in this release. This appendix lists both the Solaris operating environment patches and the Sun ONE Studio 8 patches that are included with this release. These patches are installed automatically unless you change the default selection on the Product Selection pane during the installation process.

TABLE B-1 lists the patch identification numbers and descriptions for the Solaris 7 operating environment (*SPARC® Platform Edition*).

TABLE B-2 lists the patch identification numbers and descriptions for the Solaris 7 operating environment (*x86 Platform Edition*).

TABLE B-3 lists the patch identification numbers and descriptions for the Solaris 8 operating environment (*SPARC® Platform Edition*).

TABLE B-4 lists the patch identification numbers and descriptions for the Solaris 8 operating environment (*x86 Platform Edition*).

TABLE B-5 lists the patch identification numbers and descriptions for the Solaris 9 operating environment (*SPARC® Platform Edition*).

TABLE B-6 lists the patch identification numbers and descriptions for the Solaris 9 operating environment (*x86 Platform Edition*).

TABLE B-1 Patches Installed With Sun ONE Studio 8 Software for Solaris 7 *SPARC Platform Edition*

Patch Identification Number	Patch Description
106950-22	Linker (32-bit)
106327-18	Solaris 7 C++ runtime support libraries (32-bit)

TABLE B-1 Patches Installed With Sun ONE Studio 8 Software for Solaris 7 *SPARC Platform Edition*

Patch Identification Number	Patch Description
106300-19 (requires 106327-18)	Solaris 7 C++ runtime support libraries (64-bit)
106748-04	SCCS and <code>make</code> (32-bit)
107058-01	Assembler

TABLE B-2 Patches Installed With Sun ONE Studio 8 Software for Solaris 7 *x86 Platform Edition*

Patch Identification Number	Patch Description
106951-22	Linker (32-bit)
106328-17	Solaris 7 C++ runtime support libraries (32-bit)
106749-04	SCCS and <code>make</code> (32-bit)

TABLE B-3 Patches Installed With Sun ONE Studio 8 Software for Solaris 8 *SPARC Platform Edition*

Patch Identification Number	Patch Description
109147-21	Linker (32-bit)
108434-11	Solaris 8 C++ runtime support libraries (32-bit)
108435-11 (requires 108434-11)	Solaris 8 C++ runtime support libraries (64-bit)
111697-04	SCCS and <code>make</code>

TABLE B-4 Patches Installed With Sun ONE Studio 8 Software for Solaris 8 *x86 Platform Edition*

Patch Identification Number	Patch Description
109148-21	Linker (32-bit)
108436-10	Solaris 8 C++ runtime support libraries (32-bit)
111701-04	SCCS and <code>make</code> (32-bit)

TABLE B-5 Patches Installed With Sun ONE Studio 8 Software for Solaris 9 *SPARC Platform Edition*

Patch Identification Number	Patch Description
111711-04	Solaris 9 C++ runtime support libraries (32-bit)
111712-04 (requires 111711-04)	Solaris 9 C++ runtime support libraries (64-bit)
111703-03	SCCS and make (32-bit)
112963-05	Linker (32-bit)

TABLE B-6 Patches Installed With Sun ONE Studio 8 Software for Solaris 9 *x86 Platform Edition*

Patch Identification Number	Patch Description
111713-02	Solaris 9 C++ runtime support libraries (32-bit)
113986-01	Linker (32-bit)

Version Numbers of Sun ONE Studio 8 Software Components

This appendix provides the version numbers of the components that are included in the Sun ONE Studio 8, Compiler Collection software.

TABLE C-1 lists the version numbers of the components.

TABLE C-1 Version Numbers of Components of Sun ONE Studio 8 Software

Component	Version Number
C	5.5
C++	5.5
Fortran 95	7.1
dbx	7.1
dmake	7.3
Locklint	2.4
Performance Analyzer	7.1
Tools.h++	7.1.0
Standard C++ Library	2.1.1
Sun Performance Library	4.1
STLport	4.5.3

Glossary

60-day Trial serial number	A number you generate during installation that allows you to use the software for 60 days free of charge.
display computer	The computer that displays the installer window or command-line installer. For installation using a local display, the display computer and the source computer are the same computer. For installation using a remote display, the display computer and the source computer are different computers.
installation directory	The directory where you install Sun ONE Studio 8, Compiler Collection products and licenses. The default directory is <code>/opt</code> on the source computer.
local display	An installation method where the product CD-ROM or downloaded product software is on the same computer that you use to perform the installation. The source computer runs the installer, and the installer window is displayed on the monitor that is attached to the source computer.
remote display	An installation method where the product CD-ROM or downloaded product software is on a different computer than the installer window or command-line installer. You use the <code>rlogin</code> command to log in to the source computer that contains the product CD-ROM or downloaded files. You set the <code>DISPLAY</code> environment variable to display the installer window on the monitor that is attached to the display computer. The installer runs on the source computer, but the installer window or command-line installer is displayed on the display computer.
permanent serial number	A 26-character number that is listed on a card that is enclosed in the product package. You must enter this permanent serial number during installation or enter it by using the <code>snit</code> software.
source computer	The machine that runs the installer. The source computer contains the product CD-ROM or the downloaded product software.
Try and Buy	Sun ONE Studio 8, Compiler Collection software that you install and use on a trial basis with the 60-day Trial serial number.

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