



# Installation and Setup Guide for Solaris™ Platforms

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Sun™ Studio 9

Sun Microsystems, Inc.  
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# Contents

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## **Before You Begin 9**

Typographic Conventions 9

Shell Prompts 10

Accessing Sun Studio Software and Man Pages 11

Accessing Sun Studio Documentation 14

Accessing Related Solaris Documentation 16

Resources for Developers 16

Contacting Sun Technical Support 17

Sun Welcomes Your Comments 17

## **1. Preparing for Installation 19**

Software Installation Overview 20

System Requirements 20

Adding Swap Space 21

Choosing Local Display or Remote Display of the Installer 23

    Preparing to Install Using a Remote Display 23

    Preparing to Install Using a Remote Display With an NFS-Mounted  
    Filesystem 24

Locating the Product Serial Number 27

Installation Features Included in This Release 27

<b>2. Installing the Sun Studio 9 Software</b>	<b>29</b>
Supporting Previous Sun Studio and Sun ONE Studio Releases	29
Upgrading From Try and Buy Software	29
Installing from Electronic Download Files	30
Choosing an Installation Method	30
Using the Graphical User Interface Installer	31
Using the Command-Line Installer	35
Using the Batch Installer	37
Using the Solaris JumpStart Installer	40
Installing the J2SE Platform and Related Solaris Operating System Patches	41
Verifying a Successful Installation	41
Setting Up Access to the Developer Tools and Man Pages	42
<b>3. Starting and Setting Up the Sun Studio 9 IDE</b>	<b>47</b>
Starting the IDE	47
Using the Setup Wizard	48
Using the Registration Wizard	48
Note To System Administrators	49
<b>4. Uninstalling the Sun Studio 9 Software</b>	<b>51</b>
Uninstalling When Previous Versions Of Sun Studio Are Installed	51
Choosing Local Display or Remote Display of an Uninstaller	52
Preparing to Uninstall Using a Remote Display	52
Using the Batch Software Uninstaller	53
Using a Graphical User Interface Uninstaller	54
Using a Command-Line Uninstaller	56
Using the Solaris Product Registry Software Uninstaller	57
<b>5. Troubleshooting</b>	<b>59</b>
Installing in a Directory That Is Reached by a Symbolic Link	59

Product Registry Problems	60
How Do I Identify and Fix a Failed Installation?	61
How Do I Fix a Failed Uninstallation?	61
What Can I Do If the productregistry File Is Corrupted?	62
Log Files and Serial Number Files	63
How Can I View the Installation Log Files?	63
How Do I Find the Installed Serial Number?	64
What Can I Do If I Lose My Serial Number?	64
Installing With a Remote Display Installation	64
What If the Installation Fails on an NFS-Mounted Filesystem?	65
How Do I Initialize a ToolTalk Software Session During Remote Display Installation?	65
What Can I Do If the Batch Installer Stalls?	66
<b>A. Sun Studio 9 Components and Packages</b>	<b>67</b>
<b>B. Patch Identification Numbers and Descriptions</b>	<b>79</b>
<b>C. J2SE Technology Required Patch Identification Numbers and Descriptions</b>	<b>81</b>
<b>D. Version Numbers of Sun Studio 9 Software Components</b>	<b>85</b>
Glossary	87
Index	89



# Tables

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TABLE 1-1	System Requirements 21
TABLE 2-1	<code>batch_installer</code> Options and Option Descriptions 38
TABLE 2-2	Installation Scenarios Using the <code>batch_installer</code> Command and Options 38
TABLE 4-1	Software Names and Related Uninstaller <code>.class</code> File Names 54
TABLE A-1	Sun Studio 9 Product Metacluster Components and Packages for Solaris <i>SPARC Platform Edition</i> 68
TABLE A-2	Sun Studio 9 Product Metacluster Components and Packages for Solaris <i>x86 Platform Edition</i> 74
TABLE B-1	Patches for Solaris 8 OS (SPARC Platform Edition) 79
TABLE B-2	Patches for Solaris 9 OS (SPARC Platform Edition) 80
TABLE B-3	Patches for Solaris 8 OS ( <i>x86 Platform Edition</i> ) 80
TABLE B-4	Patches for Solaris 9 OS ( <i>x86 Platform Edition</i> ) 80
TABLE C-1	Patches Installed With the J2SE Technology for Solaris 8 ( <i>SPARC Platform Edition</i> ) 81
TABLE C-2	Patches Installed With the J2SE Technology for Solaris 8 ( <i>x86 Platform Edition</i> ) 82
TABLE C-3	Patches Installed With the J2SE Technology for Solaris 9 ( <i>SPARC Platform</i> ) <i>Edition</i> 83
TABLE C-4	Patches Installed With the J2SE Technology for Solaris 9 ( <i>x86 Platform Edition</i> ) 83
TABLE D-1	Version Numbers of Components of Sun Studio 9 Software 85





# Before You Begin

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

- Install the Sun™ Studio 9 software and serial number
- Install the recommended Java™ 2 Platform, Standard Edition (J2SE™) technology
- Run the Integrated Development Environment (IDE) after it is installed
- Uninstall Sun Studio 9 product software
- Troubleshoot installation problems

This book is designed for system administrators who install software and for developers who use software development applications. Experience with the Solaris™ Operating System (OS) 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. <code>% You have mail.</code>
<b>AaBbCc123</b>	What you type, when contrasted with on-screen computer output	<code>% su</code> Password:
<i>AaBbCc123</i>	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.
<i>AaBbCc123</i>	Command-line placeholder text; replace with a real name or value	To delete a file, type <b>rm</b> <i>filename</i> .

**TABLE P-2** Code Conventions

<b>Code Symbol</b>	<b>Meaning</b>	<b>Notation</b>	<b>Code Example</b>
[ ]	Brackets contain arguments that are optional.	$O[n]$	<code>O4, O</code>
{ }	Braces contain a set of choices for a required option.	$d\{y n\}$	<code>dy</code>
	The “pipe” or “bar” symbol separates arguments, only one of which may be chosen.	$B\{dynamic static\}$	<code>Bstatic</code>
:	The colon, like the comma, is sometimes used to separate arguments.	$Rdir[:dir]$	<code>R/local/libs:/U/a</code>
...	The ellipsis indicates omission in a series.	$xinline=f1[,...fn]$	<code>xinline=alpha,dos</code>

## Shell Prompts

<b>Shell</b>	<b>Prompt</b>
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 Sun Studio Software and Man Pages

The Sun Studio software and its man pages are not installed into the `/usr/bin/` and `/usr/share/man` directories. To access the software, you must have your `PATH` environment variable set correctly (see [“Accessing the Software” on page 11](#)). To access the man pages, you must have your `MANPATH` environment variable set correctly (see [“Accessing the Man Pages” on page 12](#)).

For more information about the `PATH` variable, see the `cs(1)`, `sh(1)`, `ksh(1)`, and `bash(1)` man pages. For more information about the `MANPATH` variable, see the `man(1)` man page.

---

**Note** – The information in this section assumes that your Sun Studio software is installed in the `/opt` directory. If your software is not installed in the `/opt` directory, ask your system administrator for the equivalent path on your system.

---

## Accessing the Software

Use the steps below to determine whether you need to change your `PATH` variable to access the software.

### To Determine Whether You Need to Set Your `PATH` Environment Variable

1. **Display the current value of the `PATH` variable by typing the following at a command prompt.**

```
% echo $PATH
```

2. **Review the output to find a string of paths that contain `/opt/SUNWspro/bin/`.**  
If you find the path, your `PATH` variable is already set to access the software. If you do not find the path, set your `PATH` environment variable by following the instructions in the next procedure.

## To Set Your PATH Environment Variable to Enable Access to the Software

- **Add the following to your PATH environment variable. If you have Sun ONE Studio software or Forte Developer software installed, add the following path before the paths to those installations.**

```
/opt/SUNWspro/bin
```

## Accessing the Man Pages

Use the following steps to determine whether you need to change your MANPATH variable to access the man pages.

### To Determine Whether You Need to Set Your MANPATH Environment Variable

1. **Request the dbx man page by typing the following at a command prompt.**

```
% man dbx
```

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

If the dbx(1) man page cannot be found or if the man page displayed is not for the current version of the software installed, follow the instructions in the next procedure for setting your MANPATH environment variable.

## To Set Your MANPATH Environment Variable to Enable Access to the Man Pages

- **Add the following to your MANPATH environment variable.**

```
/opt/SUNWspro/man
```

## Accessing the Integrated Development Environment

The Sun Studio integrated development environment (IDE) provides modules for creating, editing, building, debugging, and analyzing the performance of a C, C++, or Fortran application.

The command to start the IDE is `sunstudio`. For details on this command, see the `sunstudio(1)` man page.

The correct operation of the IDE depends on the IDE being able to find the core platform. The `sunstudio` command looks for the core platform in two locations:

- The command looks first in the default installation directory, `/opt/netbeans/3.5M`.
- If the command does not find the core platform in the default directory, it assumes that the directory that contains the IDE and the directory that contains the core platform are both installed in or mounted to the same location. For example, if the path to the directory that contains the IDE is `/foo/SUNWspro`, the command looks for the core platform in `/foo/netbeans/3.5M`.

If the core platform is not installed or mounted to either of the locations where the `sunstudio` command looks for it, then each user on a client system must set the environment variable `SPRO_NETBEANS_HOME` to the location where the core platform is installed or mounted (`/installation_directory/netbeans/3.5M`).

Each user of the IDE also must add `/installation_directory/SUNWspro/bin` to their `$PATH` in front of the path to any other release of Forte Developer software or Sun ONE Studio software.

The path `/installation_directory/netbeans/3.5M/bin` should not be added to the user's `$PATH`.

---

# Accessing Sun Studio 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 on Solaris platforms 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 for both Solaris platforms and Linux platforms are available from the `docs.sun.com` web site.
- Online help for all components of the IDE is available through the Help menu, as well as through Help buttons on many windows and dialogs, in the IDE.

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 <a href="http://docs.sun.com">http://docs.sun.com</a>
Third-party manuals: <ul style="list-style-type: none"><li>• <i>Standard C++ Library Class Reference</i></li><li>• <i>Standard C++ Library User's Guide</i></li><li>• <i>Tools.h++ Class Library Reference</i></li><li>• <i>Tools.h++ User's Guide</i></li></ul>	HTML in the installed software through the documentation index at <code>file:/opt/SUNWspro/docs/index.html</code>
Readmes and man pages	HTML in the installed software through the documentation index at <code>file:/opt/SUNWspro/docs/index.html</code>
Online help	HTML available through the Help menu in the IDE
Release notes	HTML at <a href="http://docs.sun.com">http://docs.sun.com</a>

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# 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 System.
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.

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## Resources for Developers

Visit <http://developers.sun.com/prodtech/cc> to find these frequently updated resources:

- Articles on programming techniques and best practices
- A knowledge base of short programming tips
- Documentation of software, 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://developers.sun.com>.



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## Contacting Sun Technical Support

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

<http://www.sun.com/service/contacting>

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<http://www.sun.com/hwdocs/feedback>

Please include the part number of the document in your comments. For example, the part number for this document is 817-6689-10.



# Preparing for Installation

---

This chapter includes information about the following topics:

- The software installation overview
- System requirements
- Adding swap space
- Choosing local display or remote display of the installer
- Locating the product serial number
- Installation features included in this release

---

# Software Installation Overview

The following steps outline the general process you follow to install the Sun Studio 9, 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 Studio 9 software meets the minimum requirements for this release.	Using a system that meets the system requirements is recommended for proper performance.	See <a href="#">“System Requirements” on page 20</a> .
2. Determine whether you are going to display the installer locally or remotely.	You can install the Sun Studio software using a remote display or local display.	Refer to <a href="#">“Choosing Local Display or Remote Display of the Installer” on page 23</a> for more details.
3. Verify that your system has access to the Java™ 2 Platform, Standard Edition technology.	The Sun Studio 9 software supports the Java™ 2 Platform, Standard Edition technology	See <a href="#">“Installing the J2SE Platform and Related Solaris Operating System Patches” on page 41</a> for J2SE installation instructions, if necessary.
4. Choose an installation method.	There are four ways to install the Sun Studio software.	See <a href="#">“Choosing an Installation Method” on page 30</a> for more information.
5. Locate the product serial number.	The product does not work without a valid serial number.	See <a href="#">“Locating the Product Serial Number” on page 27</a> for the product serial number.
6. Install the Sun Studio 9 and serial number.	Step through the installation information.	See <a href="#">“Installing the Sun Studio 9 Software” on page 29</a> for installation instructions.

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## System Requirements

Sun Studio 9 product software supports the 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 for the Sun Studio 9 on the product web site at <http://www.sun.com/software/products/studio/index.html>.

---

**TABLE 1-1** System Requirements

	<b>Solaris <i>SPARC Platform Edition</i></b>	<b>Solaris <i>x86 Platform Edition</i></b>
Operating system	Solaris 8, 9, or 10	Solaris 8, 9, or 10
System	Recommended: Sun Blade 750 MHz or UltraSPARC III 750 MHz Minimum: Ultra 60 450 MHz	Recommended: Pentium III 1 GHz Minimum: Pentium III 500 MHz
Disk Space	1.5 Gbytes	500 Mbytes
(Use the <code>df -k</code> command to check your disk space.)		
Monitor	1152 x 900 resolution	
Memory	Recommended: 1 Gbyte Minimum: 512 Mbytes	
Swap Space*	Recommended: 2 Gbytes Minimum: 1 Gbytes	
J2SE Technology	J2SE 1.4.2_02 technology and required OS patches	
Operating System Configurations	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.)	

\*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
```

---

# Choosing Local Display or Remote Display of the Installer

You can display the installer either locally or remotely while you are installing the Sun Studio 9 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. You can continue to [Chapter 2](#).
- **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.

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

---

**Note** – Note that the uninstaller resides 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 from an NFS-mounted installer image. See [“What If the Installation Fails on an NFS-Mounted Filesystem?”](#) on page 65 of [Chapter 5](#) for troubleshooting information.

### *Preparing the Source Computer*

1. Become a superuser (root) by typing:

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



---

**Note** – In the following examples, the CD-ROM name `studio_9_sol_arch` is used. Use the name of your product CD-ROM in place of `studio_9_sol_arch`. If you have electronically downloaded the product files, use the download directory name in place of `studio_9_sol_arch`. 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/studio_9_sol_arch
```

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:

```
% /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 mount the installer image.

4. Mount the product files by typing:

```
# mount source-machine:/cdrom/studio_9_sol_arch /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
```

---

# 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 page of the installer during installation. You can also generate a 60-day trial serial number during the installation process.

---

# Installation Features Included in This Release

This Sun Studio 9 release includes the following installation features:

- Graphical user interface installation
- Command-line installation
- Batch installation
- Solaris JumpStart™ installation (not available for the Solaris 8 OS)
- Serial number installation tool (snit)
- J2SE software installation
- Batch uninstallation
- Graphical user interface uninstallation
- Command-line uninstallation

This document includes instructions for using each of the features.



## Installing the Sun Studio 9 Software

---

This chapter gives you instructions for installing your Sun™ Studio 9 software and serial number.

---

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

---

---

## Supporting Previous Sun Studio and Sun ONE Studio Releases

If you installed an Early Access version of the Studio 9 software or any other version of the Sun Studio software on your system, then install the current version of the Sun Studio 9 software in a different directory.

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 42](#) 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. The Serial Number Installation Tool (`snit`) is a utility that 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 install your permanent serial number.

1. Locate the permanent serial number. See [“Locating the Product Serial Number” on page 27.](#)
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/SUNWspro/bin/snit -i serial-number -f /install-
directory/SUNWspro/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.

---

## Installing from Electronic Download Files

If you obtained your files through electronic download, you can find complete instructions for downloading and extracting the downloaded files on the download page of the product web site at <http://www.sun.com/software/products/studio/index.html>. Follow the instructions in the *Download Instructions* before you proceed with product installation.

---

## Choosing an Installation Method

There are four ways to install the Sun Studio 9 software:

- Use the graphical user interface (GUI) installer. See [“Using the Graphical User Interface Installer” on page 31](#) for instructions.
- Use the command-line installer if you do not have graphical user interface capabilities. See [“Using the Command-Line Installer” on page 35](#) for instructions.
- Use the batch installer (see [“Using the Batch Installer” on page 37](#)).

- Use the Solaris JumpStart™ installer on the Solaris™ 9 Operating System (OS) (see [“Using the Solaris JumpStart Installer” on page 40](#)). Using the installer automates the software installation process if you need to install the Sun Studio 9 software on multiple systems.

---

**Note** – If the installer cannot find the required J2SE technology, then run the installer using the `-j` option with the following syntax: `./installer -jdkhome /usr/j2se`.

---

---

**Note** – The CD-ROM names are `studio_9_sol_sparc` and `studio_9_sol_x86`. In the examples provided, the CD-ROM name `studio_9_sol_arch` is used.

---

---

## Using the Graphical User Interface Installer

These instructions describe how to install the Sun Studio 9 software and serial number using the graphical user interface installer available on the product CD-ROM. If you get the product from an electronic download, be sure to follow all instructions in the *Download Instructions*, which is available for download from the product web site download page.

---

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

---

1. Decide if you want to install using a remote display. See [“Choosing Local Display or Remote Display of the Installer” on page 23](#) for details.
2. If you are not currently superuser (root), become a superuser by typing:

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

---

**Note** – The installer prompts you to log in as superuser (root) if you invoke the installer when you are not logged in as superuser (root).

---

### 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/studio_9_sol_arch/installer
```

The Welcome page opens.

---

**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, `zh` for Simplified Chinese, or `ja` for Japanese when you invoke the installer. For example:

```
/cdrom/studio_9_sol_arch/installer -locales en
```

---

**(Optional for electronic download)** If you downloaded the product files from the product web site, do the following:

- a. **See the *Download Instructions* available on the product web site download page for more information on extracting the tar files and using the installer launch script.**
- b. **From the download directory, start the installer by typing:**

```
# ./installer
```

The Welcome page opens.

**(Optional for using the Solaris Product Registry tool)** You can start the installer by using the Solaris Product Registry tool.

- a. **To start the Product Registry tool, type:**

```
# prodreg
```

- b. **Click New Install.**

- c. **In the Select Installer dialog, navigate to the download directory or `cdrom` directory, and select installer.**



**d. Click OK, and the installer starts.**

The Welcome page opens.

**4. Click Next in the Welcome page.**

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

**5. In the Binary Code License Agreement page, click Accept.**

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

**6. Click Next to proceed to the Select Component page.**

**7. In the Select Component page, select the type of installation you want for each product.**

- If you select Do Not Install, 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 10](#)) 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 Studio 9 software, which are listed in Appendix B. If you have previously installed these patches, installing the required patches does not downgrade your system.

---

**8. Click Next to proceed to the Select Install Directory page.**

**9. Decide whether you want to change the software installation directory from /opt.**

See [“Supporting Previous Sun Studio and Sun ONE Studio Releases” on page 29](#) if you want to install this new Sun 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 Studio software or Sun ONE Studio 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.

**10. Click Next when you have entered the installation directory.**

If you did not select Custom Install for any of the products, skip to [Step 11](#).

**(Optional for Custom Install)** If you selected Custom Install for any of the products in the Product Selection page, a Subcomponent Selection page is displayed for each of those products.

**a. Select the subcomponents you want to install by clicking the check box next to the item.**

Items with a check mark in the box will be installed.

**b. Click Next to continue with installation.**

**11. In the Enter Serial Number page, 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 27](#) for information on finding the serial number.**

**12. Click Next to install the serial number.**

The installer checks for adequate disk space, and the Ready to Install page appears.

**13. Verify that the disk space shown at the top of the Ready to Install page is available on your system by using the `df -k` command. If you receive a disk space error message and you have sufficient disk space to install the product, then ignore the error message and continue with installation.**

**14. In the Ready to Install page, confirm 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 Select Components page, make your selections, and click Next to return to the Ready to Install page.

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

**15. If you want to view the installation log file for a product, click the Details button for that product in the Installation Summary page.**

**16. In the Registration page, read the information about registering the product and click Next.**

**17. In the After Installation page, read the information about the log files and how to run the product.**

**18. Click Exit to finish the Sun Studio 9 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 Studio 9 software 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 42](#).

---

## Using the Command-Line Installer

These instructions describe how to install the Sun Studio 9 software and serial number using the command-line interface.

---

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

---

1. Decide if you want to install using a remote display. See [“Choosing Local Display or Remote Display of the Installer” on page 23](#) for details.
2. If you are not currently superuser, become a superuser (root) by typing:

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

---

**Note** – The installer prompts you to log in as superuser (root) if you invoke the installer when you are not logged in as superuser (root).

---

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

If the GUI installer starts, choose Exit to exit from the installer. To restart the installer in the command line, type:

```
# /cdrom/studio_9_sol_arch/installer -nodisplay
```

---

**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, `zh` for Simplified Chinese, or `ja` for Japanese when you invoke the installer. For example:

```
/cdrom/studio_9_sol_arch/installer -nodisplay -locales en
```

---

(Optional for electronic download) If you downloaded the product files from the product web site, do the following:

- a. See the *Download Instructions* available on the product web site download page for more information on extracting the tar files and using the installer launch script.
- b. From the download directory, start the command-line installation by typing:

```
# /download-directory/installer -nodisplay
```

Do not run the installer in the background.

### 4. The installer welcomes you. Press Enter to continue.

The Binary Code 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.

---

5. Follow the installer instructions to complete the installation. See [Step 9](#) in “Using the Graphical User Interface Installer” on [page 31](#) for additional information about selecting the installation directory.
6. 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`.
7. Remove the CD-ROM from the CD-ROM drive.

8. (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
```

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

```
# exit
```

10. To set up your access to the Sun Studio 9 software 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 42](#).

---

## Using the Batch Installer

You can install the Sun Studio 9 software, Sun Performance Library™ software, or Sun 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. Do not run the installer in the background.

---

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 23](#) 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]
```

(Optional for electronic download) Use the following command to run the batch installer:

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

The batch installer commands for each component are the following:

- `batch_installer_studio` for the Sun Studio compilers, tools, and IDE
- `batch_installer_perflib` for the Sun Performance Library software
- `batch_installer_src` for the Sun 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
-s <i>serial number</i>	Installs the permanent serial number. Without this option, a 60-day trial serial number is generated by default.
-d <i>dirname</i>	Installs in directory <i>dirname</i> .
-R <i>root-path</i>	Specifies the absolute path for the root system and product. Use this option in JumpStart installation to set the root directory. <b>NOTE:</b> Use this option only with the batch installer.
-h	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	<b>#./batch_installer</b>

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

Scenario	Command Typed at the Prompt
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/studio_9_sol_arch/batch_installer -d dirname
```

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

**(Optional for electronic download)** If you downloaded the product files from the product web site, type the following:

```
# /download-directory/install-directory/batch_installer -d /dirname
```

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 42.](#)

---

# Using the Solaris JumpStart Installer

You can use the Solaris JumpStart™ installer on at least the Solaris™ 9 operating system (*SPARC® Platform Edition*) and on at least the Solaris™ 9 operating system (*x86 Platform Edition*) to automate the software installation process to install the Sun Studio 9 software on multiple systems. An overview of the JumpStart installation steps is listed below. See the *Solaris 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. **(Optional for electronic download users) 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 37](#) for information on the available `batch_installer` command options.

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



---

# Installing the J2SE Platform and Related Solaris Operating System Patches

The Sun Studio 9 Integrated Development Environment (IDE) supports the Java™ 2 Platform, Standard Edition technology (the J2SE™ technology) and related Solaris™ Operating System (OS) patches.

If you have the supported J2SE technology installed on your system, then the J2SE selection is not visible in the Select Components page of the installer.

If you do not have the supported J2SE technology installed on your system, then you can install the technology on your system by using one of these installers:

- The `studio_9_sol_sparc_companion` CD-ROM for the Solaris OS SPARC® platform. Using the companion CD-ROM, follow the instructions in “Using the Graphical User Interface Installer” on page 31 to install the J2SE technology.
- The `studio_9_sol_x86` CD-ROM for the Solaris OS x86 platform. During product installation, if you selected a default installation, then the J2SE technology is installed on your system. If you did not install the J2SE technology during the product installation, then run the installer again and select J2SE SDK 1.4.2 Solaris OS Patches in the Select Components page.
- A downloadable file available on the download page of the product web site at <http://www.sun.com/software/products/studio/index.html>  
The file names are:
  - `studio9-sol-sparc-j2sdk.tar` for the Solaris SPARC platform
  - `studio9-sol-x86-j2sdk.tar` for the Solaris x86 platform

See the Download Instructions available on the product web site download page for more information on extracting the tar file. Follow the instructions in “Using the Graphical User Interface Installer” on page 31 to install the J2SE technology.

---

## Verifying a Successful Installation

Once the installation is completed, you can use any of the following methods to verify a successful installation:

- View the information in the Installation Summary page of the installer, which lists all products that are installed.
- Use the Solaris Product Registry to view all installed products. Type `prodreg` to open the Product Registry.

- View the installation log files.

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

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

b. View the file by typing:

```
% more Sun_Studio_Software_install.A03200125
```

The file extension varies for each log file.

---

## Setting Up Access to the Developer Tools and Man Pages

Because the Sun Studio 9 software 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 Studio 9 software.

---

**Note** – The paths shown in this section assume that Sun Studio 9 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 name.

---

Set the `PATH` and `MANPATH` variables in your home environment files. In the examples that follow, the `.cshrc` file is shown if you are using the C shell, and the `.profile` file is shown 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 Studio 9 Tools

To use the Sun Studio 9 software 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.**

- If you find the path, your PATH variable is already set to access Sun Studio 9 software 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 [Step 3](#).

3. **Add the path /opt/SUNWspro/bin to your PATH environment variable. If you have previous versions of Sun ONE Studio or Forte Developer software installed, add the path before the paths of the previous installations.**

---

**Note** – Substitute your home environment file name for the file names shown in the examples.

---

- 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 Studio 9 Man Pages

To access Sun Studio 9 software 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 Studio 9 software tools and man pages to the appropriate environment variables so that all Sun Studio 9 components are always available. These commands can also be entered at a shell prompt to temporarily enable that shell only.

## 1. Add the Sun Studio 9 software to your `PATH` and `MANPATH` variables.

---

**Note** – The `PATH` and `MANPATH` variables must be set to include Sun Studio 9 software in each user's environment, which allows each user to use the installed software.

---

- If you are using the C shell (`csh`), 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
```



# Starting and Setting Up the Sun Studio 9 IDE

---

This chapter describes how to run and setup the Sun Studio 9 integrated development environment (IDE) on your system.

---

## Starting the IDE

Once you have the Sun Studio 9 software installed on your system, and you have the Java™ 2, Standard Edition (J2SE™) technology on your system or the path to where it is installed on the network, you can start using the software. To start the product, do the following:

- **At the prompt, type:**

```
% sunstudio
```

---

**Note** – The full path to the command is  
*/installation-directory/SUNWspro/bin/sunstudio.*

---

If the software cannot find the supported J2SE technology, you will receive an error message. The `sunstudio` command looks for the J2SE technology in your `PATH` and in several standard locations on your system. If the J2SE technology is not installed on your system, do one of the following:

- Use the `--jdkhome` option with the `sunstudio` command to specify the path to the J2SE technology on the network.

- Set the `JDK_HOME` environment variable to the path to the J2SE technology on the network. Reinitialize your shell, then type the `sunstudio` command again.

For more information on the options available with the `sunstudio` command, see the `sunstudio` (1) man page. For more information about using the IDE, see the *Integrated Development Environment (IDE) Readme*.

---

## Using the Setup Wizard

You can open the Setup wizard from the IDE Welcome screen by clicking the Setup Wizard button. You can also open the Setup wizard by selecting Tools→Setup Wizard. In the Setup wizard, you can indicate your preferred settings for general Sun Studio 9 settings and for your text editor.

In the General Sun Studio Settings page, you can set the Window Mode, Web Browser, and Web Proxy. Choose your preferred display under Window Mode. For Web Browser, the External Browser (UNIX®) selection is the recommended choice. If you want to view any external web pages through the IDE, then you also have to indicate a Web Proxy.

In the Text Editor Preferences page, you can select your text editor of choice. The default selection is the Built-in Editor.

The Module Installation and Update Center pages of the Setup Wizard are not integral to the Sun Studio 9 IDE. Once you have selected your General Sun Studio Settings and the Text Editor Preferences, you can exit the Setup Wizard by clicking the Finish button to save your settings.

The Welcome screen of the IDE includes a list of links that you can use to help you get started using the IDE, including a Using the IDE section and a tutorial. For further information on viewing the compiler and tools documentation, see [“Accessing Sun Studio Documentation” on page 14](#).

---

## Using the Registration Wizard

The Registration wizard opens the first time you run the IDE. You can also open the Registration wizard by clicking Help→Registration Wizard. You can choose to register online, by fax, or by mail.



---

# Note To System Administrators

After you have installed the Sun Studio 9 software, you can send an email to the developers who will be using the software. An email template is available in the following directory:

*/installation-directory/SUNWspro/READMEs/email\_template.txt*

The email template provides information for:

- Setting local environment variables
- Starting the IDE
- Locating product documentation
- Installing the J2SE technology locally

The J2SE technology should be in the environment path of each developer who is using the Sun Studio 9 software. The developers can have the J2SE technology installed locally or mapped in their path environment. To assist the developers in installing the J2SE environment, you can copy the `studio9-sol-arch-j2sdk.tar` file or mount the CD-ROM image on a network server that is available to the developers. Be sure to include the path to J2SE installer in the email that you send to the developers.



## Uninstalling the Sun Studio 9 Software

---

This chapter describes how to uninstall the Sun™ Studio 9 software products and associated patches that are installed on your system.

When you successfully install your software, an uninstaller is automatically generated. There are four ways to use the uninstaller to remove the Sun Studio 9 software:

- Use the batch uninstaller, which removes all Sun Studio 9 software in silent mode. See [“Using the Batch Software Uninstaller” on page 53](#).
- Use the graphical user interface (GUI) uninstaller, which allows you to uninstall select Sun Studio 9 product components. See [“Using a Graphical User Interface Uninstaller” on page 54](#).
- Use the command-line uninstaller, which allows you to uninstall select Sun Studio 9 product components in silent or interactive mode. See [“Using a Command-Line Uninstaller” on page 56](#).
- Use the Solaris Product Registry tool, which allows you to uninstall select Sun Studio 9 product components. See [“Using the Solaris Product Registry Software Uninstaller” on page 57](#).

---

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

---

## Uninstalling When Previous Versions Of Sun Studio Are Installed

If you installed the Sun Studio 9 software on a system that has previous compiler collection installations other than Sun Studio 9 product, then only the Sun Studio 9 software is removed when you use the uninstaller.

---

# Choosing Local Display or Remote Display of an Uninstaller

You can display an uninstaller either locally or remotely while you are uninstalling Sun Studio 9 software.

To uninstall using the local display, proceed to [“Using a Graphical User Interface Uninstaller” on page 54](#) or [“Using a Command-Line Uninstaller” on page 56](#). To uninstall using a remote display, follow the steps in [“Preparing to Uninstall Using a Remote Display” on page 52](#), and then proceed to [“Using a Graphical User Interface Uninstaller” on page 54](#) or [“Using a Command-Line Uninstaller” on page 56](#).

## 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.

---

## Using the Batch Software Uninstaller

The batch uninstaller removes all Sun Studio 9 software in the silent mode.

---

**Note** – If the uninstaller cannot find the J2SE technology that is available to your system, you need to run the uninstaller using the `-j` option with the following syntax: `./uninstaller -j /usr/java1.2` so the uninstaller can find the required J2SE 1.2 software.

---

1. Become a superuser (root) by typing:

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

2. Go to the product directory by typing:

```
# cd /var/sadm/prod/com.sun.studio_9
```

**Note** – If you are uninstalling an Early Access version of the product, the uninstaller directory is `/var/sadm/prod/com.sun.studio_9_ea1` or `/var/sadm/prod/com.sun.studio_9_ea2`.

3. Start the batch uninstaller by typing:

```
# ./uninstaller
```

The batch uninstaller starts and continues with uninstallation.

# Using a Graphical User Interface Uninstaller

TABLE 4-1 shows the software names and the `uninstaller.class` file names that you use to uninstall the Sun Studio 9 software.

**TABLE 4-1** Software Names and Related Uninstaller `.class` File Names

Software Name	Uninstallation <code>.class</code> File Names
Sun Performance Library 8	<code>uninstall_Sun_Performance_Library.class</code>
Source Distribution	<code>uninstall_Source_Distribution.class</code>
IDE and tools software	<code>uninstall_Sun_Studio_Software.class</code>
Documentation	<code>uninstall_Documentation.class</code>
Uninstaller class files are located at <code>/var/sadm/prod/com.sun.studio_9</code>	

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 uninstaller directory by typing:

```
# cd /var/sadm/prod/com.sun.studio_9
```

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 4-1](#).**
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 Sun Studio 9 software, type:

```
# /usr/bin/java uninstall_Sun_Studio_Software
```

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

5. **In the Welcome page, click Next to continue.**

The Select Type of Uninstall page appears.

6. **In the Select Type of Uninstall page, 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 page, 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 page, click Uninstall Now.**

The Uninstalling page appears with a progress indicator. When uninstallation is complete, the Uninstallation Summary page 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. Become a superuser (root) by typing:

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

2. Go to the product directory by typing:

```
# cd /var/sadm/prod/com.sun.studio_9
```

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 4-1](#).
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:

```
# ./uninstaller
```

For example, to uninstall the Sun Studio 9 software, type:

```
# /usr/bin/java uninstall_Sun_Studio_Software -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 7](#).

5. Press Enter to continue.
6. Follow the command-line instructions to complete the uninstallation.
7. 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.

8. (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
```

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

```
# exit
```

---

## Using the Solaris Product Registry Software Uninstaller

You can use the Solaris Product Registry tool to start the uninstaller.

1. Become a superuser (root) by typing:

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

2. At the prompt, type:

```
# prodreg
```

3. From the Registered Software column, select the software component you want to uninstall.
4. Click the Uninstall button, and the uninstaller opens.
5. Verify that you want to uninstall that component and click OK in the Warning dialog.
6. (Optional) You might be prompted to use the interactive uninstaller. Follow the instructions in the uninstaller wizard to complete the uninstallation.

## Troubleshooting

---

This chapter describes how to fix problems that can occur during Sun™ Studio 9 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™ Studio 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 Studio 9 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 61](#) or [“How Do I Fix a Failed Uninstallation?” on page 61](#), 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 Studio 9 software and the registry entries for the Solaris Operating System (OS) and other products. Review the steps in [“How Do I Identify and Fix a Failed Installation?” on page 61](#) and [“How Do I Fix a Failed Uninstallation?” on page 61](#) 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 Studio 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 Sun_Studio_Software_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/SUNWspro/bin/snit -d -f /install-  
directory/SUNWspro/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 42](#).

## 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 [“Choosing Local Display or Remote Display of the Installer” on page 23](#) 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/studio_8_sol_arch/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 37](#) of [Chapter 2](#).**

# Sun Studio 9 Components and Packages

---

This appendix provides information about the Sun Studio 9 software products available for software development. This appendix also lists the components and packages that comprise each product.

[TABLE A-1](#) lists the Sun Studio 9 software metacluster and package configuration and component information for the Solaris™ Operating System (OS) (*SPARC® Platform Edition*). 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-2](#) lists the Sun Studio 9 software metacluster and package configuration and component information for the Solaris OS (*x86 Platform Edition*). 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 Studio 9 Product Metacluster Components and Packages for Solaris  
*SPARC Platform Edition*

---

Sun Studio 9 IDE for Solaris (metaclust=SPROMSTUDIO)
Sun Studio 9 Compilers C (SPROCC)
Sun Studio 9 Compilers Common Components (SPROLANG)
Sun Studio 9 Incremental Linker (SPROILD)
Sun Studio 9 C Compiler (SPROcc)
Sun Studio 9 Common Tools (SPROutool)
Sun Studio 9 GUI interface support (SPROsvc)
Sun Studio 9 Man Pages/Online Info for C (SPROmrcc)
Sun Studio 9 Common Compiler Man Pages/Online Info (SPROmrcom)
Sun Studio 9 Incremental Linker Man Page (SPROmrild)
Sun Studio 9 Math Library Man Pages (SPROmr3m)
Sun Studio 9 Test Coverage Man Page (SPROmrctv)
Sun Studio 9 dmake Man Page (SPROmrchk)
Sun Studio 9 IDE README (SPROmrde)
Sun Studio 9 C9X Math Library (SPROM9XS)
Sun Studio 9 Sunmath Library (SPROSM)
Sun Studio 9 Man Pages/Online Info for Source Browser (SPROmrsbe)
Sun Studio 9 Source Browser (SPROsbe)
Serial Number Installation Tool and Misc files (SPROCMISC)

---

**TABLE A-1** Sun Studio 9 Product Metacluster Components and Packages for Solaris  
SPARC Platform Edition (Continued)

---

Sun Studio 9 Compilers C++ (SPROCCC)
Sun Studio 9 Compilers Common Components (SPROLANG)
Sun Studio 9 Incremental Linker (SPROILD)
Sun Studio 9 Compilers C++ (SPROCPL)
Sun Studio 9 Common Tools (SPROutool)
Sun Studio 9 GUI interface support (SPROsvc)
Sun Studio 9 C++ Complex Library (SPROcmpl)
Sun Studio 9 Tools.h++ 7.1 (SPROTL7)
Sun Studio 9 Standard Library for C++ (SPROSCL)
Sun Studio 9 Man Pages/Online Info for C++ (SPROmrcl)
Sun Studio 9 Common Compiler Man Pages/Online Info (SPROmrcom)
Sun Studio 9 Incremental Linker Man Page (SPROmrild)
Sun Studio 9 Math Library Man Pages (SPROmr3m)
Sun Studio 9 Test Coverage Man Page (SPROmrctv)
Sun Studio 9 dmake Man Page (SPROmrchk)
Sun Studio 9 IDE README (SPROmrde)
Sun Studio 9 C9X Math Library (SPROM9XS)
Sun Studio 9 Man Pages/Online Info for Source Browser (SPROmrsbe)
Sun Studio 9 Source Browser (SPROsbe)
Sun Studio 9 Sunmath Library (SPROSM)
Sun Studio 9 STLport (SPROSTLPORT)
Serial Number Installation Tool and Misc files (SPROCMISC)

---

**TABLE A-1** Sun Studio 9 Product Metacluster Components and Packages for Solaris  
*SPARC Platform Edition (Continued)*

---

Sun Studio 9 Compilers Fortran 95 (SPROCFOR)
Sun Studio 9 Compiler FORTRAN 77 Tools (SPROftool)
Sun Studio 9 Compilers Common Components (SPROLANG)
Sun Studio 9 Fortran 95 Libraries (SPROLIB90)
Sun Studio 9 Compiler Fortran 90 (SPROf90)
Sun Studio 9 Incremental Linker (SPROILD)
Sun Studio 9 Common Tools (SPROutool)
Sun Studio 9 GUI interface support (SPROsvc)
Sun Studio 9 Man Pages/Online Info for Fortran 95 (SPROmrftn)
Sun Studio 9 Common Compiler Man Pages/Online Info (SPROmrcom)
Sun Studio 9 Incremental Linker Man Page (SPROmrild)
Sun Studio 9 Math Library Man Pages (SPROmr3m)
Sun Studio 9 Test Coverage Man Page (SPROmrctv)
Sun Studio 9 dmake Man Page (SPROmrchk)
Sun Studio 9 IDE README (SPROmrde)
Sun Studio 9 C9X Math Library (SPROM9XS)
Sun Studio 9 Sunmath Library (SPROSM)
Sun Studio 9 Man Pages/Online Info for Source Browser (SPROmrsbe)
Sun Studio 9 Source Browser (SPROsbe)
Serial Number Installation Tool and Misc files (SPROCMISC)

---

**TABLE A-1** Sun Studio 9 Product Metacluster Components and Packages for Solaris  
SPARC Platform Edition (Continued)

---

Sun Studio 9 Compilers Fortran 95 Legacy Libraries (SPROCFORL)
Sun Studio 9 Compiler FORTRAN 77 Tools (SPROftool)
Sun Studio 9 Compilers Common Components (SPROLANG)
Sun Studio 9 FORTRAN 77 Dynamic Libraries (SPROl77s)
Sun Studio 9 FORTRAN 77 64-bit Dynamic Libraries (SPROl77sx)
Sun Studio 9 Fortran 95 Libraries (SPROLIB90)
Sun Studio 9 Compiler Fortran 90 (SPROf90)
Sun Studio 9 Incremental Linker (SPROILD)
Sun Studio 9 Common Tools (SPROutool)
Sun Studio 9 GUI interface support (SPROsvc)
Sun Studio 9 Man Pages/Online Info for Fortran 95 (SPROmrftn)
Sun Studio 9 Common Compiler Man Pages/Online Info (SPROmrcom)
Sun Studio 9 Incremental Linker Man Page (SPROmrild)
Sun Studio 9 Math Library Man Pages (SPROmr3m)
Sun Studio 9 Test Coverage Man Page (SPROmrctv)
Sun Studio 9 dmake Man Page (SPROmrdmk)
Sun Studio 9 IDE README (SPROmrde)
Sun Studio 9 C9X Math Library (SPROM9XS)
Sun Studio 9 Sunmath Library (SPROSM)
Sun Studio 9 Man Pages/Online Info for Source Browser (SPROmrsbe)
Sun Studio 9 Source Browser (SPROsbe)
Serial Number Installation Tool and Misc files (SPROCMISC)
Sun Studio 9 Garbage Collector (SPROCLGC)
Sun Studio 9 Garbage Collector (SPROLGC)
Sun Studio 9 Garbage Collector 64-bit Library (SPROLGCX)
Sun Studio 9 LockLint (SPROCLKLT)
Sun Studio 9 LockLint (SPROlklnt)
Sun Studio 9 Man Pages/Online Info for MT Tools (SPROmrmp)
Sun Studio 9 DBX Debugging Tools (SPROCDBX)
Sun Studio 9 Debugging Tools (SPROdbx)
Sun Studio 9 Debugging Tools 64-bit (SPROdbxx)
Sun Studio 9 Debugging Tools (SPROjdbx)
Sun Studio 9 Debugging Tools 64-bit (SPROjdbxx)
Sun Studio 9 Man Pages/Online Info for dbx (SPROmrdbx)
Serial Number Installation Tool and Misc files (SPROCMISC)

---

**TABLE A-1** Sun Studio 9 Product Metacluster Components and Packages for Solaris  
SPARC Platform Edition (Continued)

---

Sun Studio 9 Performance Tools (SPROCPRFT)
Sun Studio 9 Performance Analyzer Tools (SPROprfan)
Sun Studio 9 Man Pages/Online Info for Perf Tools (SPROmrpan)
Sun Studio 9 Performance Analyzer 64-bit Tools (SPROprfax)
Sun Studio 9 Performance Analyzer Library API (SPROprflb)
Sun Studio 9 Performance Analyzer 64-bit Library API (SPROprflx)
Serial Number Installation Tool and Misc files (SPROCMISC)
Sun Studio 9 DwarfSupportLibrary binaries (SPROdwrfb)
Sun Studio 9 DwarfSupportLibrary 64-bit binaries (SPROdwrfx)
Sun Studio 9 DwarfSupportLibrary man pages (SPROmrdfw)
Sun Studio 9 Performance Analyzer GUI (SPROprfgn)
Sun Studio 9 Man Pages/Online Info for Analyzer GUI (SPROmrpgn)
Sun Studio 9 Demos (SPROCDemo)
Sun Studio 9 Compiler Examples and Programs (SPROdemo)
Sun Studio 9 Building Software (SPROCBLD)
Sun Studio 9 Distributed Make (SPROdmake)
Sun Studio 9 dmake Man Page (SPROmrdmk)
Sun Studio 9 Demos (SPROCTDEMO)
Sun Studio 9 Tools Examples and Programs (SPROtdemo)
Sun Studio 9 IDE (SPROCIDE)
Sun Studio 9 dbx GUI plug-in (SPROdbxui)
Sun Studio 9 X-designer plug-in (SPROxdplg)
Sun Studio 9 Branding files (SPROidext)
Sun Studio 9 Native Connector Tool (SPROjnsnb)
Sun Studio 9 Native Connector Tool Run-Time (SPROjnsrt)
Sun Studio 9 Native Connector Tool Support (SPROjnsup)
Sun Studio 9 NetBeans (SUNWnbide)
Sun Studio 9 Licensing Management Tool (SPRONblic)
Sun Studio 9 Registration Tool (SPRONbreg)
Sun Studio 9 X-Designer (SPROCXD)
X-Designer GUI Builder (SPROfdxd)
X-Designer ManPages and Online Help (SPROmrxd)
Sun Freeware Editors (SPROCED)
Sun Studio 9 vim external editor (SPROgvim)
Sun Studio 9 XEmacs 21.4.12 (SPROxmbin)
Sun Studio 9 XEmacs 21.4.12 (SPROxmshr)
Sun Studio 9 XEmacs 21.4.12 - source distribution (SPROxmsrc)
Sun Studio 9 XEmacs 21.4.12 - documentation (SPROmxm)

---



**TABLE A-1** Sun Studio 9 Product Metacluster Components and Packages for Solaris  
SPARC Platform Edition (Continued)

---

Sun Studio 9 Documentation Set (metaclust=SPROMDOCS)
Sun Studio 9 Documentation Set (SPROCDOCS)
Sun Studio 9 Copyright and Images (SPROhtbas)
Sun Studio 9 Tools.h++ 7.1 Docs (SPROhtml7)
Sun Studio 9 Standard Library C++ Docs (SPROhtstd)
Sun Studio 9 XDesigner Docs (SPROhtxd)
Sun Studio 9 Sun Performance Library (metaclust=SPROMPLIB)
Sun Performance Library (SPROCPERF)
Sun Studio 9 Compilers Common Components (SPROLANG)
Sun Studio 9 Fortran 95 Libraries (SPROLIB90)
Sun Studio 9 Man Pages for Sun Perf Library (SPROmrpl)
Sun Studio 9 PerfLib Common Components (SPROplg)
Sun Studio 9 Unbundled Shared libsunmath (SPROsunms)
Sun Studio 9 libsunmath 64-bit (Shared) (SPROsmsx))
Sun Studio 9 Performance Archive Libraries (SPROPL)
Sun Studio 9 Performance Shared Libraries (SPROPLS)
Sun Studio 9 Interval Libraries Common Components (SPROiplg)
Sun Studio 9 Man Pages for Sun Interval Library (SPROmripl)
Sun Studio 9 Interval Libraries 32-bit (SPROipl)
Sun Studio 9 Interval Libraries 64-bit (SPROiplx)
Sun Studio 9 PerfLib Legacy Library Check (SPROplck)
Sun Studio 9 Source Distribution (metaclust=SPROMSRC)
DwarfLibrary, Source Distribution (DWSRC)
Sun Studio 9 DwarfSupportLibrary source (SPROdwrfs)
Red-Black Tree Library,Source Distribution (RDBLKSRC)
Sun Studio 9 Red-Black_Tree_Library source (SPROdbks)
Sun Studio 9 STLport Source Distribution (STLSRC)
Sun Studio 9 STLPort version 4 source (SPROstl4h)

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**TABLE A-2** Sun Studio 9 Product Metacluster Components and Packages for Solaris x86  
*Platform Edition*

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Sun Studio 9 IDE for Solaris (metaclust=SPROMSTUDIO)
Sun Studio 9 Compilers C (SPROCC)
Sun Studio 9 Compilers Common Components (SPROLANG)
Sun Studio 9 Incremental Linker (SPROILD)
Sun Studio 9 C Compiler (SPROcc)
Sun Studio 9 Common Tools (SPROutool)
Sun Studio 9 GUI interface support (SPROsvc)
Sun Studio 9 Man Pages/Online Info for C (SPROmrcc)
Sun Studio 9 Common Compiler Man Pages/Online Info (SPROmrcom)
Sun Studio 9 Incremental Linker Man Page (SPROmrild)
Sun Studio 9 Math Library Man Pages (SPROmr3m)
Sun Studio 9 Test Coverage Man Page (SPROmrctv)
Sun Studio 9 dmake Man Page (SPROmrchk)
Sun Studio 9 IDE README (SPROmrde)
Sun Studio 9 C9X Math Library (SPROM9XS)
Sun Studio 9 Sunmath Library (SPROSM)
Sun Studio 9 Man Pages/Online Info for Source Browser (SPROmrsbe)
Sun Studio 9 Source Browser (SPROsbe)
Serial Number Installation Tool and Misc files (SPROCMISC)

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**TABLE A-2** Sun Studio 9 Product Metacluster Components and Packages for Solaris x86 Platform Edition (Continued)

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Sun Studio 9 Compilers C++ (SPROCCC)
Sun Studio 9 Compilers Common Components (SPROLANG)
Sun Studio 9 Incremental Linker (SPROILD)
Sun Studio 9 Compilers C++ (SPROCPL)
Sun Studio 9 Common Tools (SPROutool)
Sun Studio 9 GUI interface support (SPROsvc)
Sun Studio 9 C++ Complex Library (SPROcmpl)
Sun Studio 9 Tools.h++ 7.1 (SPROTL7)
Sun Studio 9 Standard Library for C++ (SPROSCL)
Sun Studio 9 Man Pages/Online Info for C++ (SPROmrcl)
Sun Studio 9 Common Compiler Man Pages/Online Info (SPROmrcom)
Sun Studio 9 Incremental Linker Man Page (SPROmrild)
Sun Studio 9 Math Library Man Pages (SPROmr3m)
Sun Studio 9 Test Coverage Man Page (SPROmrctv)
Sun Studio 9 dmake Man Page (SPROmrchk)
Sun Studio 9 IDE README (SPROmrde)
Sun Studio 9 C9X Math Library (SPROM9XS)
Sun Studio 9 Man Pages/Online Info for Source Browser (SPROmrsbe)
Sun Studio 9 Source Browser (SPROsbe)
Sun Studio 9 Sunmath Library (SPROSM)
Sun Studio 9 STLport (SPROSTLPORT)
Serial Number Installation Tool and Misc files (SPROCMISC)

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**TABLE A-2** Sun Studio 9 Product Metacluster Components and Packages for Solaris x86 Platform Edition (Continued)

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Sun Studio 9 Compilers Fortran 95 (SPROCFOR)
Sun Studio 9 Compiler FORTRAN 77 Tools (SPROftool)
Sun Studio 9 Compilers Common Components (SPROLANG)
Sun Studio 9 Fortran 95 Libraries (SPROLIB90)
Sun Studio 9 Compiler Fortran 90 (SPROf90)
Sun Studio 9 Incremental Linker (SPROILD)
Sun Studio 9 Common Tools (SPROutool)
Sun Studio 9 GUI interface support (SPROsvc)
Sun Studio 9 Common Compiler Man Pages/Online Info (SPROmrcom)
Sun Studio 9 Incremental Linker Man Page (SPROmrild)
Sun Studio 9 Math Library Man Pages (SPROmr3m)
Sun Studio 9 Test Coverage Man Page (SPROmrtcv)
Sun Studio 9 dmake Man Page (SPROmrchk)
Sun Studio 9 IDE README (SPROmrde)
Sun Studio 9 C9X Math Library (SPROM9XS)
Sun Studio 9 Sunmath Library (SPROSM)
Sun Studio 9 Man Pages/Online Info for Source Browser (SPROmrbs)
Sun Studio 9 Source Browser (SPRObs)
Sun Studio 9 Man Pages/Online Info for Fortran 95 (SPROmrftn)
Serial Number Installation Tool and Misc files (SPROCMISC)
Sun Studio 9 Garbage Collector (SPROCLGC)
Sun Studio 9 Garbage Collector (SPROLGC)
Sun Studio 9 DBX Debugging Tools (SPRODBX)
Sun Studio 9 Debugging Tools (SPROdbx)
Sun Studio 9 Debugging Tools (SPROjdbx)
Sun Studio 9 Man Pages/Online Info for dbx (SPROmrdbx)
Serial Number Installation Tool and Misc files (SPROCMISC)
Sun Studio 9 Demos (SPROCDemo)
Sun Studio 9 Compiler Examples and Programs (SPROdemo)
Sun Studio 9 Building Software (SPROBLD)
Sun Studio 9 Distributed Make (SPROdmake)
Sun Studio 9 dmake Man Page (SPROmrchk)
Sun Studio 9 Demos (SPROCTDemo)
Sun Studio 9 Tools Examples and Programs (SPROtdemo)

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**TABLE A-2** Sun Studio 9 Product Metacluster Components and Packages for Solaris x86 Platform Edition (Continued)

---

Sun Studio 9 IDE (SPROCIDE)
Sun Studio 9 dbx GUI plug-in (SPROdbxui)
Sun Studio 9 X-designer plug-in (SPROxdplg)
Sun Studio 9 Branding files (SPROidext)
Sun Studio 9 Native Connector Tool (SPROjnsnb)
Sun Studio 9 Native Connector Tool Run-Time (SPROjnsrt)
Sun Studio 9 Native Connector Tool Support (SPROjnsup)
Sun Studio 9 NetBeans (SUNWnbide)
Sun Studio 9 Licensing Management Tool (SPRONblic)
Sun Studio 9 Registration Tool (SPRONbreg)
Sun Studio 9 X-Designer (SPROCXD)
X-Designer GUI Builder (SPROfdxd)
X-Designer ManPages and Online Help (SPROMrxd)
Sun Freeware Editors (SPROCED)
Sun Studio 9 vim external editor (SPROgvim)
Sun Studio 9 XEmacs 21.4.12 (SPROxmbin)
Sun Studio 9 XEmacs 21.4.12 (SPROxmshr)
Sun Studio 9 XEmacs 21.4.12 - source distribution (SPROxmsrc)
Sun Studio 9 XEmacs 21.4.12 - documentation (SPROMrxm)
Sun Studio 9 Performance Tools (SPROCPRFT)
Sun Studio 9 Performance Analyzer Tools (SPROprfan)
Sun Studio 9 Man Pages/Online Info for Perf Tools (SPROMrpan)
Sun Studio 9 Performance Analyzer Library API (SPROprflb)
Serial Number Installation Tool and Misc files (SPROCMISC)
Sun Studio 9 DwarfSupportLibrary binaries (SPROdwrfb)
Sun Studio 9 DwarfSupportLibrary man pages (SPROMrdwf)
Sun Studio 9 Performance Analyzer GUI (SPROprfgn)
Sun Studio 9 Man Pages/Online Info for Analyzer GUI (SPROMrpgn)
Sun Studio 9 Documentation Set (metaclust=SPROMDOCS)
Sun Studio 9 Documentation Set (SPROCDOCS)
Sun Studio 9 Copyright and Images (SPROhtbas)
Sun Studio 9 Tools.h++ 7.1 Docs (SPROhttl7)
Sun Studio 9 Standard Library C++ Docs (SPROhtstd)
Sun Studio 9 XDesigner Docs (SPROhtxd)

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**TABLE A-2** Sun Studio 9 Product Metacluster Components and Packages for Solaris x86 Platform Edition (Continued)

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Sun Studio 9 Sun Performance Library (metaclust=SPROMPLIB)
Sun Performance Library (SPROCPERF)
Sun Studio 9 Compilers Common Components (SPROLANG)
Sun Studio 9 Fortran 95 Libraries (SPROLIB90)
Sun Studio 9 Unbundled Shared libsunmath (SPROsunms)
Sun Studio 9 PerfLib Common Components (SPROplg)
Sun Studio 9 PerfLib 32-bit (Archive) (SPROpl)
Sun Studio 9 PerfLib 32-bit (Shared) (SPROpls)
Sun Studio 9 Man Pages for Sun Perf Library (SPROmrpl)
Sun Studio 9 Source Distribution (metaclust=SPROMSRC)
DwarfLibrary, Source Distribution (DWSRC)
Sun Studio 9 DwarfSupportLibrary source (SPROdwrfs)
Red-Black Tree Library, Source Distribution (RDBLKSRC)
Sun Studio 9 Red-Black_Tree_Library source (SPROdbks)
Sun Studio 9 STLport Source Distribution (STLSRC)
Sun Studio 9 STLPort version 4 source (SPROstl4h)

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# Patch Identification Numbers and Descriptions

Operating system patches and product patches are provided for Sun Studio 9 software. These patches are required for the proper operation of the compilers and tools in this release. This appendix lists both the Solaris™ Operating System (OS) patches and the Sun Studio 9 patches that are included with this release. These patches are installed automatically unless you change the default selection on the Select Components page during the installation process.

**TABLE B-1** lists the patch identification numbers and descriptions for the Solaris 8 OS (*SPARC® Platform Edition*).

**TABLE B-2** lists the patch identification numbers and descriptions for the Solaris 9 OS (*SPARC Platform Edition*).

**TABLE B-3** lists the patch identification numbers and descriptions for the Solaris 8 OS (*x86 Platform Edition*).

**TABLE B-4** lists the patch identification numbers and descriptions for the Solaris 9 OS (*x86 Platform Edition*).

**TABLE B-1** Patches for Solaris 8 OS (*SPARC Platform Edition*)

Patch Identification Number	Patch Description
109147-27	linker patch
108434-17	requires 109147-07 or greater 32-Bit Shared library patch for C++
108435-17	requires 108434-17 64-Bit Shared library patch for C++
111697-04	/usr/ccs/bin/sccs and /usr/ccs/bin/make patch
114802-02	Patch for assembler

**TABLE B-2** Patches for Solaris 9 OS (*SPARC Platform Edition*)

Patch Identification Number	Patch Description
112963-10	linker patch
111711-11	32-Bit Shared library patch for C++
111712-11	requires 111711-11 64-Bit Shared library patch for C++
111703-03	<code>/usr/ccs/bin/sccs</code> and <code>/usr/ccs/bin/make</code> patch

**TABLE B-3** Patches for Solaris 8 OS (*x86 Platform Edition*)

Patch Identification Number	Patch Description
109148-27	linker patch
108436-15	requires requires 109148-07 Shared library patch for C++_x86
111701-04	<code>/usr/ccs/bin/sccs</code> and <code>/usr/ccs/bin/make</code> patch

**TABLE B-4** Patches for Solaris 9 OS (*x86 Platform Edition*)

Patch Identification Number	Patch Description
113986-06	linker patch
111713-0	Shared library patch for C++_x86
115114-01	Patch for assembler



# J2SE Technology Required Patch Identification Numbers and Descriptions

Java™ 2, Standard Edition (J2SE) technology required patches are provided in the J2SE installer for the Sun Studio 9 software. These patches are required for the proper operation of the J2SE technology with the Solaris Operating System (OS). This appendix lists the Solaris OS patches that are included with this release. These patches are installed automatically unless you change the default selection on the Select Components page during the J2SE technology installation process.

**TABLE C-1** lists the patch identification numbers and descriptions for the Solaris 8 OS (*SPARC Platform Edition*).

**TABLE C-2** lists the patch identification numbers and descriptions for the Solaris 8 OS (*x86 Platform Edition*).

**TABLE C-3** lists the patch identification numbers and descriptions for Solaris 9 OS (*SPARC Platform Edition*).

**TABLE C-4** lists the patch identification numbers and descriptions for Solaris 9 OS (*x86 Platform Edition*).

**TABLE C-1** Patches Installed With the J2SE Technology for Solaris 8 (*SPARC Platform Edition*)

Patch Identification Number	Patch Description
108652-79	X11 6.4.1: Xsun
108921-20	CDE 1.4: dtwm
108940-61	Motif 1.2.7 and 2.1.1: Runtime library
112003-03	Unable to load fontset in 64-bit Solaris 8 iso-1 or iso-15
108773-18	IIIM and X Input & Output Method
111310-01	/usr/lib/libdhcpgent.so.1

**TABLE C-1** Patches Installed With the J2SE Technology for Solaris 8 (*SPARC Platform Edition*) (Continued)

Patch Identification Number	Patch Description
112472-01	Font2DTest2 abort when Lucida Sans Thai Typewriter selected
109147-28	Linker
111308-04	/usr/lib/libmtmalloc.so.1
112438-03	/kernel/drv/random
108434-15	32-Bit Shared library for C++
108435-15	64-Bit Shared library for C++
111111-03	/usr/bin/nawk
112396-02	/usr/bin/fgrep
110386-03	RBAC Feature
111023-03	/kernel/fs/mntfs and /kernel/fs/sparcv9/mntfs
111317-05	/sbin/init and /usr/sbin/init
113648-03	/usr/sbin/mount
115827-01	/sbin/sulogin and /sbin/netstrategy
116602-01	/sbin/uadmin and /sbin/hostconfig
108987-13	Patch for patchadd and patchrm
108528-29	kernel update and Apache
108989-02	/usr/kernel/sys/acctctl and /usr/kernel/sys/exacctsys
108993-33	LDAP2 client, libc, libthread and libnsl libraries
109326-14	libresolv.so.2 and in.named
110615-10	sendmail

**TABLE C-2** Patches Installed With the J2SE Technology for Solaris 8 (*x86 Platform Edition*)

Patch Identification Number	Patch Description
108653-68	X11 6.4.1_x86: Xsun
108941-61	Motif 1.2.7_x86 and 2.1.1_x86: Runtime library
108922-20	CDE 1.4_x86: dtwm
108774-18	IIM and X Input & Output Method
111307-05	boot.bin, bootconf.exe, bootenv.rc and nbp
111311-01	/usr/lib/libdhcpagent.so.1

**TABLE C-2** Patches Installed With the J2SE Technology for Solaris 8 (*x86 Platform Edition*) (Continued)

Patch Identification Number	Patch Description
112473-01	Font2DTest2 abort if Lucida Sans Thai Typewriter selected
112439-02	kernel/drv/random
109148-28	linker
111309-04	/usr/lib/libmtmalloc.so.1
111112-03	/usr/bin/nawk
112397-02	/usr/bin/fgrep
110400-01	RBAC Feature
111024-03	/kernel/fs/mntfs
111318-05	/sbin/init and /usr/sbin/init
113649-03	/usr/sbin/mount
115828-01	/sbin/sulogin and /sbin/netstrategy
116603-01	/sbin/uadmin and /sbin/hostconfig
108988-13	Patch for patchadd and patchrm
108529-29	kernel update and Apache
108990-02	acctctl & exacctsys
108994-32	LDAP2 client, libc, libthread, and libnsl libraries

**TABLE C-3** Patches Installed With the J2SE Technology for Solaris 9 (*SPARC Platform Edition*)

Patch Identification Number	Patch Description
113096-03	X11 6.6.1: OWconfig patch
112785-34	X11 6.6.1: Xsun patch

**TABLE C-4** Patches Installed With the J2SE Technology for Solaris 9 (*x86 Platform Edition*)

Patch Identification Number	Patch Description
112786-23	X11 6.6.1_x86: Xsun



# Version Numbers of Sun Studio 9 Software Components

This appendix provides the version numbers of the components that are included in the Sun Studio 9 software.

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

**TABLE D-1** Version Numbers of Components of Sun Studio 9 Software

Component	Version Number
C	5.6
C++	5.6
Fortran 95	8.0
dbx	7.3
dmake	7.5
Locklint	2.4
Performance Analyzer	7.3
Tools.h++	7.1.0
Standard C++ Library	2.1.1
Sun Performance Library	4.1
STLport	4.5.3
X-Designer	7.5



# Glossary

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<b>60-day Trial serial number</b>	A number you generate during installation that allows you to use the software for 60 days free of charge.
<b>batch installer</b>	The batch installer is an installer packaged with the product that can install each product component from the command-line with minimal user interaction.
<b>display computer</b>	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.
<b>installation directory</b>	The directory in which you install Sun Studio 9 software products and licenses. The default directory is <code>/opt</code> on the source computer.
<b>Solaris™ JumpStart installation</b>	The Solaris JumpStart™ installation works with the Solaris 9 Operating System (OS) ( <i>SPARC® Platform Edition</i> ) and the Solaris 9 OS ( <i>x86 Platform Edition</i> ) to automate the software installation process to install the Sun Studio 9 software on multiple systems.
<b>local display</b>	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.
<b>remote display</b>	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.

<b>permanent serial number</b>	A 26-character number that is provided with the purchased product. You must enter this permanent serial number during installation or enter it by using the <code>snit</code> software.
<b>source computer</b>	The machine that runs the installer. The source computer contains the product CD-ROM or the downloaded product software.
<b>Try and Buy</b>	Sun Studio 9 software that you install and use on a trial basis with the 60-day Trial serial number.



# Index

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## Numerics

60-day trial serial number  
    generating, 34, 38  
    upgrading to permanent license, 29, 34, 38

## A

accessible documentation, 15

## B

batch  
    command options, 38  
    installation, 37

## C

compilers, accessing, 11

## D

display  
    local, 23, 87  
    remote, 23, 87  
display computer, 87  
documentation index, 14  
documentation, accessing, 14 to ??

## E

environment variables  
    changing, 42  
    MANPATH, 43  
    PATH, 43

## I

IDE

starting, 47

installation

    batch installer, 37  
    CD-ROM, 29  
    command-line, 35  
    directory, 87  
    failed, identifying and fixing, 61  
    graphical user interface, 31  
    in directory reached by symbolic link, 59  
    JumpStart, 40  
    overview, 20  
    remote display, 23

## J

JumpStart installation, 40

## L

license file, displaying contents of, 29  
local display, 23, 87  
log files, viewing, 63

## M

man pages, accessing, 11  
MANPATH environment variable, setting, 12  
metacluster information, 67

## N

NFS-mounted filesystem  
    write permission, 65

## P

package component information, 67

- patch identifications and descriptions, 79, 81
- PATH environment variable, setting, 12
- productregistry file, corrupted, 62

## R

- Registration Wizard
  - using, 48
- remote display, 23, 87

## S

- serial number
  - 60-day trial serial number, 87
  - finding lost, 64
  - generating 60-day trial, 34, 38
  - installing, 34, 38
  - locating, 27
  - permanent, 88
  - upgrading from a 60-day trial serial number, 33
- Serial Number Installation Tool (snit)
  - finding installed serial number, 64
  - using to upgrade from 60-day trial to permanent license, 29
  - viewing `serial.dat` file, 64
- serial number, displaying contents of, 42, 63
- shell prompts, 10
- Solaris Product Registry tool, 61
- source computer, 88
- swap space
  - adding, 21
  - checking, 21

## T

- ToolTalk software session, initializing, 65
- typographic conventions, 9

## U

- uninstall file names, 54
- uninstallation
  - command-line, 56
  - failed, fixing, 61
  - graphical user interface, 54
- upgrading from a 60-day trial serial number, 29, 38

## V

- version
  - of components, 85