



Installation and Setup Guide for Linux Platforms

Sun™ Studio 9

Sun Microsystems, Inc.
www.sun.com

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Adobe PostScript

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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 Linux operating system and commands is required.

Typographic Conventions

TABLE P-1 Typeface Conventions

Typeface	Meaning	Examples
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. % You have mail.
AaBbCc123	What you type, when contrasted with on-screen computer output	% su Password:
<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.
<code>AaBbCc123</code>	Command-line placeholder text; replace with a real name or value	To delete a file, type <code>rm filename</code> .

TABLE P-2 Code Conventions

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

Shell Prompts

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

Accessing Sun Studio Software and Man Pages

The Sun Studio software and its man pages are not installed into `/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 `csh(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/sun/` directory. If your software is not installed in the `/opt/sun` 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/sun/sunstudio9/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/sun/sunstudio9/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/sun/sunstudio9/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/sun/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/sunstudio9`, 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/sunstudio9/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/sun/sunstudio9/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 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 http://docs.sun.com
Readmes and man pages	HTML in the installed software through the documentation index at <code>file:/opt/sun/sunstudio9/docs/index.html</code>
Online help	HTML available through the Help menu in the IDE
Release notes	HTML at http://docs.sun.com

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 compilers and tools components, as well as corrections to the documentation that is installed with your software
- Information on support levels
- User forums
- Downloadable code samples
- New technology previews

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

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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Please include the part number of the document in the subject line of your email. For example, the part number for this document is 817-6690-10.

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 software, product serial number, and supporting software. See the references provided in each step for specific procedures.

Task	Description	For Instructions
1. Verify that the system on which you are installing the Sun Studio 9 software meets the minimum requirements for this release.	Using a system that meets the system requirements is recommended for proper performance.	See “System Requirements” on page 18 .
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 “Choosing Local Display or Remote Display of the Installer” on page 20 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 “Installing the J2SE Platform” on page 35 for J2SE installation instructions, if necessary.
4. Choose an installation method.	There are three ways to install the Sun Studio software.	See “Choosing an Installation Method” on page 28 for more information.
5. Locate the product serial number.	The product does not work without a valid serial number.	See “Locating the Product Serial Number” on page 24 for the product serial number.
6. Install the Sun Studio 9 software and serial number.	Step through the installation information	See “Installing the Sun Studio 9 Software” on page 27 for J2SE installation instructions.

System Requirements

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

TABLE 1-1 System Requirements

Operating system	Sun™ Java Desktop System, 2003; SuSE Linux Enterprise Server 8; RedHat Enterprise Linux 3
System	Recommended: Pentium III 1 GHz Minimum: Pentium III 500 MHz
Memory	Recommended: 1 Gbyte Minimum: 512 Mbytes
Swap Space*	Recommended: 2 Gbytes Minimum: 1 Gbyte
Monitor	1024 x 768 resolution
J2SE Technology	J2SE 1.4.2_02 technology
Compilers	GCC 3.2 family

*Use the `swapon -s` command to display the existing 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:

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

where *dir* is a directory in which you have permission to add swap space. The *myswapfile* is the name of the swap file you are creating. The *number_blocks_needed* is an amount of 1024-byte blocks you want to create.

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

3. Verify that the file was created by typing:

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

The new file appears in the directory.

4. Initialize the new swap area by typing:

```
# mkswap /dir/myswapfile
```

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

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

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

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

```
# swapon -s
```

The output shows the allocated swap space.

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 software with the graphical user interface installer or the command-line installer:

- **Local display.** The source computer and the display computer are the same computer. The installer window or command-line installer is displayed on the same computer that contains the product CD-ROM or downloaded files and runs the installer. 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 21 or “Preparing to Install Using a Remote Display With an NFS-Mounted Filesystem” on page 22.

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 GNU Bourne-Again shell, type:

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

If you use the Korn shell, type:

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

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

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

Note – 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 52 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_linux` is used. Use the name of your product CD-ROM in place of `studio_9_linux`. If you have electronically downloaded the product files, use the download directory name in place of `studio_9_linux`. 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/exports` file in order to share the product image as an NFS filesystem:**

```
share -F nfs -o ro /cdrom/studio_9_linux
```

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 [nfsd]
```

If you do not see screen output like the preceding example, start `nfsd`. For example, on a Sun Java Desktop System, start `nfsd` by typing:

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

You should see screen output similar to the previous example. If not, contact your Linux system administrator.

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

```
# /usr/sbin/exportfs -a
```

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

```
# /usr/sbin/exportfs
```

Preparing the Display Computer

1. Enable client access to the X server by typing the following:

```
% /usr/X11R6/bin/xhost + source-machine-name
```

Replace *source-computer-name* with the output of the `/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:/dev/cdrom/studio_9_linux /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 Bash 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 software release includes the following installation features:

- Graphical user interface installation
- Command-line installation
- Batch installation
- 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.

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 24](#).
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/sunstudio9/bin/snit -i serial-number -f /install-  
directory/sunstudio9/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 three ways to install the Sun Studio 9 software:

- Use the graphical user interface (GUI) installer. See “Using the Graphical User Interface Installer” on page 28 for instructions.
- Use the command-line installer if you do not have graphical user interface capabilities. See “Using the Command-Line Installer” on page 31 for instructions.
- Use the batch installer (see “Using the Batch Installer” on page 33) to install the software in a default installation.

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`.

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. Do not use the `rpm` command to install the software. Use the provided installer. Do not run the installer in the background.

Note – Do not use the `rpm` 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 20](#) 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, 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_linux/installer
```

The Welcome page opens.

(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.

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 9](#)) which subcomponents of the product you want to install.

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

9. In the Select Install Directory page, you can choose the default directory or another directory in which to install the product. Click Next when you are finished.

If you did not select Custom Install for any of the products, skip to [Step 10](#).

(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.

10. 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 24 for information on finding the serial number.

11. Click Next to install the serial number.

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

12. 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.

13. 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.
14. If you want to view the installation log file for a product, click the Details button for that product in the Installation Summary page.
15. In the Registration page, read the information about registering the product and click Next.
16. In the After Installation page, read the information about the log files and how to run the product.
17. Click Exit to finish the Sun Studio 9 software installation.
18. Remove the CD-ROM from the CD-ROM drive.
19. (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
```

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

```
# exit
```

21. 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 37](#).

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 `rpm` 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 20 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_linux/installer -nodisplay
```

(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 28](#) 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 37](#).

Using the Batch Installer

The batch installer requires minimal user interaction and can be run from a single command. Follow these instructions to use the batch installer:

Note – Do not use the `rpm` 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 20](#) 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] [-h]
```

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

```
batch_installer_component-name [-s serial number] [-d dirname] [-h]
```

See [TABLE 2-1](#) for the options that are available for the `batch_installer` command.

TABLE 2-1 `batch_installer` Options and Option Descriptions

Option Name	Option Description
<code>-s <i>serial number</i></code>	Installs the permanent serial number. Without this option, a 60-day trial serial number is generated by default.
<code>-d <i>dirname</i></code>	Installs in directory <i>dirname</i> .
<code>-h</code>	Displays usage information for the <code>batch_installer</code> command.

The `batch_installer` command and the options can be used in the scenarios shown in [TABLE 2-2](#)

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

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

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_linux/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 37](#).

Installing the J2SE Platform

The Sun Studio 9 Integrated Development Environment (IDE) supports the Java™ 2 Platform, Standard Edition technology (the J2SE™ technology).

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_linux` CD-ROM. 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 in the Select Components page.
- The `studio9-sol-linux-j2sdk.tar` file available on the download page of the product web site at <http://www.sun.com/software/products/studio/index.html>. 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 28 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.
- View the `/var/tmp/productregistry` file to see the list of installed products.
- View the installation log files.

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

```
% cd /var/tmp/
```

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 `/opt/sun` directory. If you installed the software in a different directory, replace `/opt/sun` in the examples with that directory name.

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/sun/sunstudio9/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/sun/sunstudio9`.**
 - If you find the path, your `PATH` variable is already set to access Sun Studio 9 software tools. (The `/opt/sun` 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/sun/sunstudio9/bin` to your `PATH` environment variable.**

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/sun/sunstudio9/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/sun/sunstudio9/man/` to your `MANPATH` environment variable.

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.

- a. Determine if your `MANPATH` variable is already set. At a shell prompt, type the command:

```
% echo $MANPATH
```

If the response is an empty line, the `MANPATH` variable is not set. If paths to one or more man directories are displayed, the variable is set.

- b. Edit the environment file in your home directory. For example, if you are using the GNU Bourne-Again shell environment, add the following lines to your environment file:

```
PATH=/opt/sun/sunstudio9/bin${PATH:+:}${PATH}  
MANPATH=/opt/sun/sunstudio9/man:${MANPATH:=/usr/share/man}
```

Do not type any spaces in these two lines.

2. Save the environment file that you modified in [Step 1](#).
3. Reinitialize your shell.

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/sunstudio9/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 tutorial to help you get started using the IDE. For further information on viewing the tools documentation, see [“Accessing Sun Studio Software and Man Pages” on page 11](#).

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/sunstudio9/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-linux-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 45](#).
- 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 46](#).
- 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 48](#).

Note – Do not use the `rpm -e` command to uninstall the software. Use the provided uninstaller.

Using the Batch Software Uninstaller

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

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

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

2. Go to the product directory by typing:

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

Note – If you are uninstalling an Early Access version of the product, the uninstaller directory is `/var/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
IDE and tools software	<code>uninstall_Sun_Studio_Software.class</code>
Source Distribution	<code>uninstall_Source_Distribution.class</code>
Documentation	<code>uninstall_Documentation.class</code>

Uninstaller class files are located at `/var/prod/com.sun.studio_9`

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/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.

Make sure that the path to your

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

```
# java uninstall_uninstaller-class-file-name
```

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

```
# 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/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. Also, the commands below assume that your `PATH` environment variable includes the path to the `java` command.

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

```
# java uninstall_uninstaller-class-file-name
```


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

```
# java uninstall_Sun_Studio_Software
```

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:

```
# ./uninstaller
```

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
```


Troubleshooting

This chapter describes how to fix problems that can occur during Sun™ Studio 9 software installation and uninstallation.

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/tmp/
```

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/sunstudio9/bin/snit -d -f /install-  
directory/sunstudio9/prod/lib/serial.dat
```

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

What Can I Do If I Lose My Serial Number?

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

Installing With a Remote Display Installation

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

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

If the installation fails on an NFS-mounted filesystem, ensure that you have write permission on that filesystem. You can check for write permission by following the instructions below. See [“Choosing Local Display or Remote Display of the Installer” on page 20](#) 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.

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/tmp/
% more Sun_Studio_Software_install.A03200125
```

2. To stop the installer, press Control+C.
3. To install the product using the batch installer, see [“Using the Batch Installer” on page 33 of Chapter 2.](#)

Sun Studio 9 Components and Packages

This appendix lists the RPM packages that comprise the Sun Studio 9 software products.

[TABLE A-1](#) lists the Sun Studio 9 software package configuration and component information for the Linux operating system.

TABLE A-1 Sun Studio 9 Product RPM Packages

Sun Studio 9 Distributed Make (sun-dmake)
Sun Studio 9 dmake Man Page (sun-mrdmk)
Sun Studio 9 Tools Examples and Programs (sun-tdemo)
Sun Studio 9 Common Tools (sun-utool)
Sun Studio 9 Installer Misc files (sun-pnsn)
Sun Studio 9 Serial Number Installation Tool (sun-snit)
Sun Studio 9 GUI Interface Support (sun-svc)
Sun Studio 9 X-Designer Motif GUI Builder (sun-xdesigner)
Sun Studio 9 dbx GUI plug-in (sun-dbxui)
Sun Studio 9 X-designer plug-in (sun-xdplg)
Sun Studio 9 X-designer Man Pages and Online Help (sun-mrxd)
Sun Studio 9 Branding files (sun-idext)
Sun Studio 9 Licensing Management Tool (sun-nblic)
Sun Studio 9 NetBeans Lite (sun-nbide)
Sun Studio 9 Registration Tool (sun-nbreg)
Sun Studio 9 IDE connector README (sun-mride)
Sun Studio 9 Linux Man Pages/Online Info (sun-mrlnx)
Sun Studio 9 DwarfSupportLibrary binaries (sun-dwrfb)
Sun Studio 9 DwarfSupportLibrary source (sun-dwrfs)
Sun Studio 9 DwarfSupportLibrary man pages (sun-mrdwf)

TABLE A-1 Sun Studio 9 Product RPM Packages (*Continued*)

Sun Studio 9 vim external editor (sun-gvim)
Sun Studio 9 XEmacs 21.4.12 - architecture-dependent run-time kit (sun-xmbin)
Sun Studio 9 XEmacs 21.4.12 - architecture-independent run-time kit (sun-xmshr)
Sun Studio 9 XEmacs 21.4.12 editor - source distribution (sun-xmsrc)
Sun Studio 9 XEmacs 21.4.12 - documentation (sun-mrxm)

Sun Studio 9 Debugging Tools (sun-dbx)
Sun Studio 9 Debugging Tools (sun-jdbx)
Sun Studio 9 Man Pages/Online Info for dbx (sun-mrdbx)

Sun Studio 9 Performance Analyzer Tools (sun-prfan)
Sun Studio 9 Performance Analyzer GUI (sun-prfgn)
Sun Studio 9 Performance Analyzer Library API (sun-prflb)
Sun Studio 9 Analyzer/Collector Command-Line Man Pages (sun-mrpan)
Sun Studio 9 Analyzer/Collector GUI Online Help and Man Pages (sun-mrpgn)

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 B-1](#) lists the version numbers of the components.

TABLE B-1 Version Numbers of Components of Sun Studio 9 Software

Component	Version Number
dbx	7.3
dmake	7.5
Performance Analyzer	7.3
X-Designer	7.5

Glossary

60-day Trial serial number	A number you generate during installation that allows you to use the software for 60 days free of charge.
batch installer	The batch installer is an installer packaged with the product that can install each product component from the command-line with minimal user interaction.
display computer	The computer that displays the installer window or command-line installer. For installation using a local display, the display computer and the source computer are the same computer. For installation using a remote display, the display computer and the source computer are different computers.
installation directory	The directory in which you install Sun Studio 9 software products and licenses. The default directory is <code>/opt/sun</code> on the source computer.
local display	An installation method where the product CD-ROM or downloaded product software is on the same computer that you use to perform the installation. The source computer runs the installer, and the installer window is displayed on the monitor that is attached to the source computer.
remote display	An installation method where the product CD-ROM or downloaded product software is on a different computer than the installer window or command-line installer. You use the <code>rlogin</code> command to log in to the source computer that contains the product CD-ROM or downloaded files. You set the <code>DISPLAY</code> environment variable to display the installer window on the monitor that is attached to the display computer. The installer runs on the source computer, but the installer window or command-line installer is displayed on the display computer.
permanent serial number	A 26-character number that is provided with the purchased product. You must enter this permanent serial number during installation or enter it by using the <code>snit</code> software.
source computer	The machine that runs the installer. The source computer contains the product CD-ROM or the downloaded product software.

Try and Buy Sun Studio 9 software that you install and use on a trial basis with the 60-day Trial serial number.

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