



# Installation Guide

---

Forte Developer 7

Sun Microsystems, Inc.  
4150 Network Circle  
Santa Clara, CA 95054 U.S.A.  
650-960-1300

Part No. 816-2466-10  
May 2002, Revision A

Send comments about this document to: [docfeedback@sun.com](mailto:docfeedback@sun.com)

Copyright © 2002 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in the product that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at <http://www.sun.com/patents> and one or more additional patents or pending patent applications in the U.S. and in other countries.

This document and the product to which it pertains are distributed under licenses restricting their use, copying, distribution, and decompilation. No part of the product or of this document may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any.

Third-party software, including font technology, is copyrighted and licensed from Sun suppliers.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and in other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, Forte, Java, Solaris, iPlanet, NetBeans, and docs.sun.com are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and other countries. Products bearing SPARC trademarks are based upon architecture developed by Sun Microsystems, Inc.

Netscape and Netscape Navigator are trademarks or registered trademarks of Netscape Communications Corporation in the United States and other countries.

Sun f90/f95 is derived in part from Cray CF90™, a product of Cray Inc.

libdwarf and lidredblack are Copyright 2000 Silicon Graphics Inc. and are available under the GNU Lesser General Public License from <http://www.sgi.com>.

Federal Acquisitions: Commercial Software—Government Users Subject to Standard License Terms and Conditions.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

---

Copyright © 2002 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, Etats-Unis. Tous droits réservés.

Sun Microsystems, Inc. a les droits de propriété intellectuels relatant à la technologie incorporée dans le produit qui est décrit dans ce document. En particulier, et sans la limitation, ces droits de propriété intellectuels peuvent inclure un ou plus des brevets américains énumérés à <http://www.sun.com/patents> et un ou les brevets plus supplémentaires ou les applications de brevet en attente dans les Etats - Unis et dans les autres pays.

Ce produit ou document est protégé par un copyright et distribué avec des licences qui en restreignent l'utilisation, la copie, la distribution, et la décompilation. Aucune partie de ce produit ou document ne peut être reproduite sous aucune forme, par quelque moyen que ce soit, sans l'autorisation préalable et écrite de Sun et de ses bailleurs de licence, s'il y en a.

Le logiciel détenu par des tiers, et qui comprend la technologie relative aux polices de caractères, est protégé par un copyright et licencié par des fournisseurs de Sun.

Des parties de ce produit pourront être dérivées des systèmes Berkeley BSD licenciés par l'Université de Californie. UNIX est une marque déposée aux Etats-Unis et dans d'autres pays et licenciée exclusivement par X/Open Company, Ltd.

Sun, Sun Microsystems, le logo Sun, Forte, Java, Solaris, iPlanet, NetBeans, et docs.sun.com sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays.

Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux Etats-Unis et dans d'autres pays. Les produits portant les marques SPARC sont basés sur une architecture développée par Sun Microsystems, Inc.

Netscape et Netscape Navigator sont des marques de fabrique ou des marques déposées de Netscape Communications Corporation aux Etats-Unis et dans d'autres pays.

Sun f90/f95 est dérivé d'une part de Cray CF90™, un produit de Cray Inc.

libdwarf et lidredblack sont Copyright 2000 Silicon Graphics Inc., et sont disponible sur GNU General Public License à <http://www.sgi.com>.

LA DOCUMENTATION EST FOURNIE "EN L'ÉTAT" ET TOUTES AUTRES CONDITIONS, DECLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES, DANS LA MESURE AUTORISEE PAR LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE A LA QUALITE MARCHANDE, A L'APTITUDE A UNE UTILISATION PARTICULIERE OU A L'ABSENCE DE CONTREFAÇON.



# Contents

---

<b>Before You Begin</b>	<b>ix</b>
Typographic Conventions	ix
Shell Prompts	x
Accessing Forte Developer Documentation	x
Product Documentation in Accessible Formats	xi
Sending Your Comments	xi
Contacting Technical Support	xii
<b>1. Preparing for Installation</b>	<b>1</b>
Software Installation Overview	1
System Requirements	2
<b>2. Installing Software From CD-ROM</b>	<b>5</b>
Supporting Previous Software Releases	5
Upgrading From Try and Buy Software	6
Software Installation Steps	6
Finding the Product Serial Number	6
Choosing Local or Remote Installation	7
Using the Graphical User Interface Installation	11
Using the Command-Line Installation	15

Using Batch Installation	18
Using the Solaris JumpStart Installer	21
Changing PATH and MANPATH Variables	22
Setting Your PATH Environment Variable So You Can Access Forte Developer Tools	23
Setting Your MANPATH Environment Variable So You Can Access Forte Developer Man Pages	23
Adding the Changes to the Appropriate Environment Variable	24
<b>3. Installing Software From Electronic Download</b>	<b>27</b>
Supporting Previous Software Releases	27
Upgrading From Try and Buy Software	28
Software Installation Steps	28
Finding the Product Serial Number	28
Choosing Local or Remote Installation	29
Using the Graphical User Interface Installation	33
Using the Command-Line Installation	37
Using Batch Installation	41
Using the Solaris JumpStart Installer	44
Installing Additional Software	45
Changing PATH and MANPATH Variables	45
Setting Your PATH Environment Variable So You Can Access Forte Developer Tools	46
Setting Your MANPATH Environment Variable So You Can Access Forte Developer Man Pages	46
Adding the Changes to the Appropriate Environment Variable	47
<b>4. Uninstalling Software With the Uninstaller</b>	<b>49</b>
Choosing Local or Remote Uninstallation	50
Using the Graphical User Interface Uninstaller	51
Using the Command-Line Uninstaller	53

Using the Batch-Mode Uninstaller	54
<b>5. Troubleshooting</b>	<b>57</b>
Product Registry Problems	57
How Do I Identify and Fix a Failed Installation?	57
What Can I Do If the productregistry File Is Corrupted?	58
Log Files and Serial Number Files	59
How Can I View the Installation Log Files?	59
How Do I Find the Installed Serial Number?	59
What Can I Do If I Lose My Serial Number?	59
System Modifications	60
How Do I Install in a Directory Reached by a Symlink?	60
Why Does My System Freeze When I Invoke the Installer?	61
<b>A. Forte Developer 7 Components and Packages</b>	<b>63</b>
<b>B. Solaris Patch Identifications and Descriptions</b>	<b>71</b>
<b>Glossary</b>	<b>73</b>
<b>Index</b>	<b>75</b>



# Tables

---

TABLE 1-1	System Requirements by Platform in Entire Distribution or Entire Distribution Plus OEM Configurations	2
TABLE 2-1	<code>batch_installer</code> Options and Option Descriptions	19
TABLE 2-2	Installation Scenarios Using the <code>batch_installer</code> Command and Options	19
TABLE 3-1	<code>batch_installer</code> Options and Option Descriptions	42
TABLE 3-2	Installation Scenarios Using the <code>batch_installer</code> Command and Options	42
TABLE A-1	Forte Developer Product Package Metacluster Components for the Solaris <i>SPARC Platform Edition</i>	64
TABLE A-2	Forte Developer Product Package Components for Solaris <i>SPARC Platform Edition</i>	65
TABLE B-1	Patch Identifications and Descriptions that are Installed With the Forte Developer 7 Software for Solaris 7 <i>SPARC Platform Edition</i>	71
TABLE B-2	Patch Identifications and Descriptions that are Installed With Forte Developer 7 Software for Solaris 8 <i>SPARC Platform Edition</i>	71



# Before You Begin

---

This installation guide gives instructions for how to:

- Install the Forte™ Developer 7 software and serial number
- Install Forte Developer 7 Source Distribution software or Sun Performance Library 7 software
- Uninstall software
- Troubleshoot installation problems

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

---

## Typographic Conventions

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.
<code>AaBbCc123</code>	Command-line placeholder text; replace with a real name or value	To delete a file, type <code>rm filename</code> .

---

# Shell Prompts

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

---

---

## Accessing Forte Developer Documentation

You can access Forte Developer product documentation at the following locations:

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

If your product 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 product only:
  - *Standard C++ Library Class Reference*
  - *Standard C++ Library User's Guide*
  - *Tools.h++ Class Library Reference*
  - *Tools.h++ User's Guide*

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 installed with the product on your local system or network.

---

**Note** – Sun is not responsible for the availability of third-party web sites mentioned in this document and does not endorse and is not responsible or liable for any content, advertising, products, or other materials on or available from such sites or resources. Sun will not be responsible or liable for any damage or loss caused or alleged to be caused by or in connection with use of or reliance on any such content, goods, or services available on or through any such sites or resources.

---

## Product Documentation in Accessible Formats

Forte Developer 7 product 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 product 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 product through the documentation index at <code>file:/opt/SUNWspro/docs/index.html</code>
Readmes and man pages	HTML in the installed product through the documentation index at <code>file:/opt/SUNWspro/docs/index.html</code>
Release notes	Text file on the product CD at <code>/cdrom/devpro_v10n1_sparc/release_notes.txt</code>

---

---

## Sending Your Comments

Sun is interested in improving its documentation and welcomes your comments and suggestions. Email your comments to Sun at this address:

[docfeedback@sun.com](mailto:docfeedback@sun.com)

---

# Contacting Technical Support

For further assistance, you can contact technical support at

<http://www.sun.com/forte/developer/support.html>

# Preparing for Installation

---

This chapter describes:

- The software installation overview
- System requirements

---

## Software Installation Overview

The following is the general process you follow to install your Forte™ Developer 7 software, serial number, and supporting software.

1. Your application server must meet the minimum requirements for this release. See “System Requirements” on page 2.
2. You must install the serial number during product installation. See Chapter 2 for product and serial number installation from a CD-ROM or see Chapter 3 for installation from an electronic download.
3. If you want to install the Forte™ Developer 7 product to use with the Forte™ for Java™ product compiler software, make a note of the Forte Developer 7 installation path. You must include the absolute path to the Forte for Java product installation. See <http://www.sun.com/forte/ffj> for more details.

After following the instructions in this manual, you are ready to use your Forte Developer software.

---

# System Requirements

This Forte Developer release supports versions 7, 8, and 9 of the Solaris™ operating environment *SPARC™ Platform Edition* in Entire Distribution or Entire Distribution plus OEM configurations.

---

**Note** – For further disk space requirements and important last-minute information about this release, see the release notes on the Forte Developer 7 Compiler Collection web site at <http://www.sun.com/forte/fcc>.

---

TABLE 1-1 lists the system requirements for each platform in Entire Distribution or Entire Distribution plus OEM configurations.

**TABLE 1-1** System Requirements by Platform in Entire Distribution or Entire Distribution Plus OEM Configurations

---

**Solaris *SPARC Platform Edition* Solaris 7, 8, or 9**

---

System	Recommended: Ultra 60 360 MHz; Sun blade 100 500 MHz Minimum: Ultra 10
Monitor	1152 x 900 resolution; 15" color monitor
Memory	768 Mbytes recommended; 256 Mbytes minimum
Swap Space <sup>1</sup>	1024 Mbytes recommended; 512 Mbytes minimum
Disk Space	1.5 Gbytes
Peripherals	CD-ROM drive
OS Configurations	Entire Distribution or Entire Distribution plus OEM

---

1. Use the `swap -s` command to check the swap space.

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

**1. Become a superuser by typing:**

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

**2. Make a file in the selected directory to add swap space. Use the following command:**

```
mkfile -n <size[m|k|b]> directory/<swapfilename>
```

In this example, *<size[m|k|b]>* can be a number plus *m* for megabyte, *k* for kilobyte, or *b* for block, and the *directory* is a directory in which you have permissions to add swap space. For example, to make a 16 megabyte swap file named `16mswap`, type the following:

```
#mkfile -n 16m /directory/16mswap
```

See the `mkfile` man page for more information.

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

```
#ls -l /directory/16mswap
```

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

```
#swap -a /directory/16mswap
```

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

```
#swap -s
```



---

## Installing Software From CD-ROM

---

This chapter gives you step-by-step instructions for installing your serial number and Forte™ Developer 7 software from the product CD-ROM.

---

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

---

---

## Supporting Previous Software Releases

To support previous Forte Developer releases as well as this Forte Developer release on the same machine, select an installation directory for the new release that is *different* from the directory where previous Forte Developer or Sun WorkShop releases reside. For example, if you previously installed development tools in `/opt`, install the new development tools in a new directory that you created on a file system with sufficient disk space. For example:

```
/opt/
```

for the previous version, and

```
/export/home3/tools
```

for the new version.

After installation, modify your `PATH` and `MANPATH` environment variables to include the new directory. See “Changing `PATH` and `MANPATH` Variables” on page 22 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 have to reinstall the software product. You must install your permanent serial number by using the provided installer. Follow the steps outlined in this chapter, and when you have successfully entered your serial number, you can exit from the installer.

---

## Software Installation Steps

There are two ways to run the installer for Forte Developer 7 software:

- The graphical user interface (GUI) (see “Using the Graphical User Interface Installation” on page 11 for instructions)
- The `installer` command-line installation executable if you do not have graphical user interface capabilities (see “Using the Command-Line Installation” on page 15 for instructions). The command-line installation also includes the batch installer (“Using Batch Installation” on page 18) and the JumpStart installer (“Using the Solaris JumpStart Installer” on page 21).

Continue to the section “Choosing Local or Remote Installation” on page 7 to determine if you want to do a local or remote installation.

## Finding the Product Serial Number

When you purchase the product, the serial number is listed on a card enclosed in the product package. That is the number that you enter in the Enter Serial Number pane of the installer during installation.

# Choosing Local or Remote Installation

In a local installation, the *source* computer and the *target* computer are the same machine. In a remote installation, the *source* computer and the *target* computer are two different machines. The source machine contains the software files and installer, and the target machine is the machine you use to install the software.

There are three types of local and remote installations:

- **Local installation.** The source machine and the target machine are the same machine. Continue to “Using the Graphical User Interface Installation” on page 11, “Using the Command-Line Installation” on page 15, or “Using Batch Installation” on page 18.
- **Remote installation type one.** The target machine is used to install software on the source machine. Continue to “Remote Installation Type One” on page 7.
- **Remote installation type two.** The target machine is used to install software *from* the source machine *to* the target machine. Continue to “Remote Installation Type Two” on page 8.

## Remote Installation Type One

For remote installation type one, using the target machine to install software on the source machine, follow these steps:

1. **On the target machine, enable client access to the X server by typing the following at a command line:**

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

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

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

```
# rlogin source-machine-name -l root  
Password: root-password
```

**3. From the source machine, set your display to the monitor you are using.**

If you use the C shell, type:

```
# setenv DISPLAY hostname:0.0
```

If you use the Bourne shell, type:

```
# DISPLAY=hostname:0.0
# export DISPLAY
```

If you use the Korn shell, type:

```
# export DISPLAY=hostname:0.0
```

Replace *hostname* with the output of the `/usr/bin/hostname` command entered on the target machine.

- 4. Go to the product files by placing the CD-ROM in the disk drive of the computer.**
- 5. Continue to “Using the Graphical User Interface Installation” on page 11, “Using the Command-Line Installation” on page 15, or “Using Batch Installation” on page 18.**

## Remote Installation Type Two

For remote installation type two, using the target machine to install software *from* the source machine *to* the target machine, follow these steps.

---

**Note** – Step 1, Step 2, Step 3, and Step 4 are performed on the source machine.

---

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

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

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

```
share -F nfs -o ro /cdrom/devpro_10n1_sparc
```

3. Verify that your source machine 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* get 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 machine is exporting your product directory by typing:

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

Screen output that resembles the following example appears:

RESOURCE	SERVER	ACCESS	TRANSPORT
<i>server-name:product-location</i>	<i>server-name</i>	-	-

---

**Note** – Step 5, Step 6, Step 7, Step 8, Step 9, and Step 10 are performed on the target machine.

---

5. On the target machine, enable client access to the X server by typing the following at a command line:

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

6. On the target machine, log in as superuser (root) by typing:

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

7. On the target machine, create a new directory by typing:

```
# mkdir /install
```

8. Mount the product files by typing:

```
# mount source-machine:/cdrom/devpro_10n1_sparc /install
```

9. Go to the directory that you created in Step 7 by typing:

```
# cd /install
```

10. From the target machine, set your display to the monitor you are using.

If you use the C shell, type:

```
# setenv DISPLAY hostname:0.0
```

If you use the Bourne shell, type:

```
# DISPLAY=hostname:0.0
# export DISPLAY
```

If you use the Korn shell, type:

```
# export DISPLAY=hostname:0.0
```

Replace *hostname* with the output of the `/usr/bin/hostname` command entered on the target machine.

11. Continue to “Using the Graphical User Interface Installation” on page 11, “Using the Command-Line Installation” on page 15, or “Using Batch Installation” on page 18.

## Using the Graphical User Interface Installation

These instructions describe how to use the installer software to install the Forte Developer 7 software and the serial number.

---

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

---

1. Pick a local or remote installation method.

To help you decide, see “Choosing Local or Remote Installation” on page 7.

2. Go to the product software by placing the CD-ROM in the disk drive.

3. Enable client access by typing the following in a separate shell window:

```
% xhost +
```

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

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

5. To start the installer, double-click the installer icon in the CD-ROM software.

The following is an alternative method to invoke the installer:

- a. Go to the CD-ROM directory by typing:

```
# cd /cdrom/devpro_10n1_sparc
```

- b. Start the installer by typing:

```
# ./installer
```

---

**Note** – Do not run the installer in the background.

---

Before the installer opens, you receive messages that ask if you have previously installed versions of the Forte Developer 7 software, multiple versions of earlier Forte Developer releases installed on the system, or other Forte Developer versions installed in the same directory.

6. To respond to the messages, type **y** if you want to continue. If you need to uninstall a previous version of Forte Developer, type **n** and go to Chapter 4 for information on uninstalling software.

When you start the installer, the Welcome pane appears.

7. Click Next in the Welcome pane.

The Binary Code License Agreement pane appears.

8. From the Binary Code License Agreement pane, click **I agree**. If you choose **I do not agree**, you cannot continue with installation. Click **Next** to proceed to the Product Selection pane.

9. Select the software that you want to install by clicking the buttons in the **Default Install** column or **Custom Install** column.

---

**Note** – The default selection, Solaris patches for Forte Developer 7 software, installs the patches. If you have previously installed patches, installing the default patches does not downgrade your system. For more information on patches, see the readme files in the Patch directory.

---

A default installation installs all components and all online documentation that is associated with the components.

A custom installation allows you to select which components you want to install.

**10. Click Next to continue to the Select Install Directory pane. Decide if you want to change the software installation directory from /opt.**

See “Supporting Previous Software Releases” on page 5 if you want to install this new Forte Developer release on a machine that contains previous Forte Developer releases or Sun WorkShop releases.

The installation directory that you choose is your default installation directory for this session:

- If you want to install in /opt, click Next. Note that if you already have Forte Developer software installed in /opt, you must choose a different installation directory.
- If you want to install the software in a directory other than /opt, type the new location in the text field or browse for another location. Click Next when you have selected the installation directory.

**11. (Optional) For Custom Install only, in the Component Selection pane, select the components you want to install. Click Next when you are finished selecting components.**

---

**Note** – If you are custom installing more than one product, then different Component Selection panes appear for each product.

---

**12. Click Next to continue with the installation.**

The Enter Serial Number pane appears.

**13. Enter your permanent 26-character serial number in the text box, or click the 60-day Trial button to generate a trial serial number. Click Next.**

---

**Note** – If you are upgrading from Try and Buy software, you can exit from the installer after you successfully enter your permanent serial number.

---

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

---

**Note** – If you install the product in a directory named *homedirectory-name*, the installer warns you of insufficient disk space. You can ignore the message and continue with installation.

---

- 14. In the Ready to Install pane, verify the items that you want to install. When you complete your selection, click Install Now.**

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

- 15. Click Next to proceed with installation.**

The installing pane appears with a progress indicator.

- 16. Review the messages in the Installation Summary pane, and then click Exit to finish the installation.**

- 17. Remove the CD-ROM from the disk drive.**

- 18. If you performed a remote installation, follow these steps (if you did not perform a remote installation, skip to Step 19):**

For a type one remote installation:

- a. On the target machine, disable client access by typing the following:**

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

- b. Exit from superuser privileges on the source machine by typing:**

```
# exit
```

For a type two remote installation:

- On the target machine, unmount the */install* directory by typing the following:**

```
# umount /install
```

- 19. Exit from superuser privileges by typing:**

```
# exit
```

20. Disable client access by typing:

```
% /usr/openwin/bin/xhost - target-machine-name
```

21. Review html versions of the readme files located in

`/opt/SUNWspro/docs/index.html` for specific information on new features, problems and workarounds, documentation errors, and software corrections. Text versions of the readme files are located at `/opt/SUNWspro/READMEs`.

22. Set your `PATH` and `MANPATH` variables by following the steps in “Changing `PATH` and `MANPATH` Variables” on page 22.

## Using the Command-Line Installation

These instructions describe how to install the Forte Developer 7 software using the command-line interface.

---

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

---

Follow these steps:

1. Pick a local or remote installation method.

To help you decide, see “Choosing Local or Remote Installation” on page 7.

2. Go to the product software by placing the CD-ROM in the disk drive and typing:

```
% cd /cdrom/devpro_10n1_sparc
```

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

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

4. Start the command-line installation by typing:

```
# ./installer -nodisplay
```

---

**Note** – Do not run the installer in the background.

---

Before the installer opens, you receive messages that ask if you have previously installed versions of the Forte Developer 7 software, multiple versions of earlier Forte Developer releases installed on the system, or other Forte Developer versions installed in the same directory.

5. **Type `y` if you want to continue. If you need to uninstall a previous version of Forte Developer, type `n` and go to Chapter 4 for information on uninstalling software.**
6. **Press the Enter key.**

The Binary Software License Agreement text appears.

---

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

---

7. **After reading the Binary Software License Agreement, type `I agree` at the prompt and press Enter to continue.**  
If you type `I` do not agree, you cannot continue with installation.
8. **To select or deselect a product for No Install, Default Install, or Custom Install, type the number (0-6) that corresponds to the product you are considering. Press Enter to accept the Default installation for all products.**

---

**Note** – The default selection, Solaris patches for Forte Developer 7 software, installs the patches. If you have previously installed patches, installing the default patches does not downgrade your system. For more information on patches, see the readme files in the Patch directory.

---

9. **Select the type of installation you want for that product.**
  - For no installation, type `1`. No installation deselects a product and the product is not installed.
  - For default installation, type `2`. Default installation installs all components and online documentation associated with that product.
  - For custom installation, type `3`. Custom installation allows you to select the components of that product that you want to install.
10. **To select or deselect another product for installation, return to Step 8. Select Done when you are finished.**

11. **Before you can proceed, you must specify a location for installation.**
  - If you want to install in the default directory, /opt, press Enter.
  - If you want to select another directory, enter the name of the new directory.
12. **If you selected custom installation for a product in Step 9, select or deselect a component for installation by entering the number that corresponds to the component and press Enter. When finished, type 0 and press Enter.**
13. **Type your permanent 26-character serial number, or select 60-day Trial to generate a Trial serial number. Press Enter.**

---

**Note** – If you are upgrading from Try and Buy software, you can exit from the installer after you successfully enter your serial number.

---

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

---

**Note** – If you install the product in a directory named *homedirectory-name*, the installer warns you of insufficient disk space. You can ignore the message and continue with installation.

---

14. **A list of products and components is shown for verification.**
  - Type 1 if you want to proceed with installation.
  - Type 2 if you want to start over from Step 8.
  - Type 3 if you want to exit installation.

If you typed 1 to proceed with installation, a progress indicator appears.
15. **When installation is complete, you can view a product's log file by typing the number that corresponds to that product. When you finish viewing the log files, type the number that corresponds to Done.**
16. **Remove the CD-ROM from the disk drive.**
17. **If you performed a remote installation, follow these steps (if you did not perform a remote installation, go to Step 18):**

For a type one remote installation:

- a. **On the target machine, disable client access by typing the following:**

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

b. Exit from superuser privileges on the source machine by typing:

```
# exit
```

For a type two remote installation:

- On the target machine, unmount the *install* directory by typing the following:

```
# umount /install
```

18. Exit from superuser privileges by typing:

```
# exit
```

19. Review html versions of the readme files located in

*/opt/SUNWspro/docs/index.html* for specific information on new features, problems and workarounds, documentation errors, and software corrections. Text versions of the readme files are located at */opt/SUNWspro/READMEs*.

20. Set your `PATH` and `MANPATH` variables. See “Changing `PATH` and `MANPATH` Variables” on page 22.

## Using Batch Installation

You can install the Forte Developer 7 software, Sun Performance Library™ 7 software, or Forte Developer 7 Source Distribution software with the batch installer for a default installation.

---

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

---

Follow these instructions for batch installation:

1. Pick a local or remote installation method.

To help you decide, see “Choosing Local or Remote Installation” on page 7.

2. Go to the product software by placing the CD-ROM in the disk drive and typing:

```
% cd /cdrom/devpro_10n1_sparc
```

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

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

Use the following command to run the batch installer:

```
batch_installer [-s serial_number | -t | -n] [-d dirname] [-R root_path] [-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 serial_number</code>	Specifies the permanent serial number
<code>-t</code>	Generates a trial serial number
<code>-n</code>	Uses no serial number. Use this option for products that do not require licensing, such as third-party source software. When you use this option, the installer assumes that a serial number was installed in a previous installation.
<code>-d dirname</code>	Installs in directory <i>dirname</i>
<code>-R root_path</code>	Specifies the absolute path for the root system and product. Use this option in JumpStart installation to set root directory.
<code>-h</code>	Displays usage

The `batch_installer` command and the options can be used in the following 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 with a trial serial number in the default directory	<code>#!/batch_installer -t</code>
Install with a trial serial number in a different directory	<code>#!/batch_installer -t -d /dirname</code>

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

Scenario	Command Typed at the Prompt
Install with no serial number in the default directory. You receive an error message if no serial number is found.	<code># ./batch_installer -n</code>
Install with no serial number in a directory other than the default directory	<code># ./batch_installer -n -d /dirname</code>
Install and change the root installation with a trial serial number	<code># ./batch_installer -R /a/opt -t</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 the default directory, type the following:**

```
# ./batch_installer -t -d /opt
```

5. **After reading the Binary Software License Agreement, type `I agree` at the prompt and press Enter to continue.**

If you type `I` do not agree, you cannot continue with installation.

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

6. **If you performed a remote installation, follow these steps (if you did not perform a remote installation, skip to Step 7):**

For a type one remote installation:

- a. **On the target machine, disable client access by typing the following:**

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

- b. **Exit from superuser privileges on the source machine by typing:**

```
# exit
```

For a type two remote installation:

- On the target machine, unmount the *install* directory by typing the following:

```
# umount /install
```

7. Exit from superuser privileges by typing:

```
# exit
```

8. Review html versions of the readme files located in `/opt/SUNWspro/docs/index.html` for specific information on new features, problems and workarounds, documentation errors, and software corrections. Text versions of the readme files are located at `/opt/SUNWspro/READMEs`.
9. Set your `PATH` and `MANPATH` variables. See “Changing `PATH` and `MANPATH` Variables” on page 22.

## Using the Solaris JumpStart Installer

You can use the Solaris JumpStart™ installer on the Solaris™ 9 operating environment *SPARC® Platform Edition* to automate the Forte Developer 7 software installation process to install on multiple systems. An overview of the JumpStart installation steps is listed below. See the Solaris 9 Installation Guide for *complete* details of JumpStart installation.

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

For installation that includes a serial number:

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

---

**Note** – This symbol `xxxxxx-xxxxxxxx-xxxxxxxx` in the file example above represents the product serial number.

---

For installation without including the product serial number:

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

---

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

---

See “Using Batch Installation” on page 18 for information on the available `batch_installer` command options.

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

---

## Changing PATH and MANPATH Variables

Because the Forte Developer 7 software product components and man pages are not installed into the system `/usr/bin/` and `/usr/share/man` directories, you must change your `PATH` and `MANPATH` environment variables to enable use of the Forte Developer 7 software.

---

**Note** – The paths shown in this section assume that Forte Developer packages are installed in the standard `/opt` directory. If you indicated another installation directory when you started the software, replace `/opt` in the examples with the installation path you selected.

---

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

---

**Note** – The path `/opt/SUNWspro/bin` is new for Forte Developer 7 software. For backward compatibility with earlier releases, symbolic links have been created so that it is not necessary for you to change your existing `PATH` and `MANPATH`.

---

For more information about `PATH` and `MANPATH` variables, the SunOS™ man page `csh(1)` describes the `PATH` variable for the C shell, `sh(1)` describes the `PATH` variable for the Bourne shell, and `ksh(1)` 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 Forte Developer Tools

To use the Forte Developer 7 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/bin/`.**
  - If you find the path, your `PATH` variable is already set to access Forte Developer tools. (The `/opt` path can be replaced by an alternative install path.)
  - If you do not find the path, set your `PATH` variable as described in the next step.
3. **Add the path `/opt/SUNWspro/bin/` to your `PATH` environment variable.**
  - If you are using the C shell, edit your home `.cshrc` file to add the path.
  - If you are using the Bourne shell or Korn shell, edit your home `.profile` file to add the path.

## Setting Your `MANPATH` Environment Variable So You Can Access Forte Developer Man Pages

To access Forte Developer 7 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 discussion that follows shows how to permanently add these paths to the appropriate environment variables so that all Forte Developer 7 components are always available. These commands can also be entered at a shell prompt to temporarily enable only that shell.

## 1. Add Forte Developer 7 software to your `PATH` and `MANPATH` variables.

---

**Note** – The `PATH` and `MANPATH` variables must be set to include Forte Developer 7 software in each user’s environment, which allows them 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
```

You are now ready to use your Forte Developer 7 software.



## Installing Software From Electronic Download

---

This chapter gives you step-by-step instructions for installing your serial number and Forte™ Developer 7 software from an electronic download.

---

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

---

---

## Supporting Previous Software Releases

To support previous Forte Developer releases as well as this Forte Developer release on the same machine, select an installation directory for the new release that is *different* from the directory where previous Forte Developer or Sun WorkShop releases reside. For example, if you previously installed development tools in `/opt`, install the new development tools in a new directory that you created on a file system with sufficient disk space. For example:

```
/opt/
```

for the previous version, and

```
/export/home3/tools
```

for the new version.

After installation, modify your `PATH` and `MANPATH` environment variables to include the new directory. See “Changing `PATH` and `MANPATH` Variables” on page 45 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 have to reinstall the software product. You must install your permanent serial number by using the provided installer. Follow the steps outlined in this chapter, and when you have successfully entered your serial number, you can exit from the installer.

---

## Software Installation Steps

There are two ways to run the installer for Forte Developer 7 software:

- The graphical user interface (GUI) (see “Using the Graphical User Interface Installation” on page 33 for instructions)
- The `installer` command-line installation executable if you do not have graphical user interface capabilities (see “Using the Command-Line Installation” on page 37 for instructions). The command-line installation also includes the batch installer (“Using Batch Installation” on page 41) and the JumpStart installer (“Using the Solaris JumpStart Installer” on page 44).

Continue to the section “Choosing Local or Remote Installation” on page 29 to determine if you want to do a local or remote installation.

## Finding the Product Serial Number

When you purchase the product, the serial number is listed on your invoice. That is the number that you enter in the Enter Serial Number pane of the installer during installation.

# Choosing Local or Remote Installation

In a local installation, the *source* computer and the *target* computer are the same machine. In a remote installation, the *source* computer and the *target* computer are two different machines. The source machine contains the downloaded file, and the target machine is the machine you use to install the software.

There are three types of local and remote installations:

- **Local installation.** The source machine and the target machine are the same machine. Continue to “Using the Graphical User Interface Installation” on page 33, “Using the Command-Line Installation” on page 37, or “Using Batch Installation” on page 41.
- **Remote installation type one.** The target machine is used to install software on the source machine. Continue to “Remote Installation Type One” on page 29.
- **Remote installation type two.** The target machine is used to install software *from* the source machine *to* the target machine. Continue to “Remote Installation Type Two” on page 30.

## Remote Installation Type One

For remote installation type one, using the target machine to install software on the source machine, follow these steps:

1. **On the target machine, enable client access to the X server by typing the following at a command line:**

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

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

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

```
# rlogin source-machine-name -l root  
Password: root-password
```

**3. From the source machine, set your display to the monitor you are using.**

If you use the C shell, type:

```
# setenv DISPLAY hostname:0.0
```

If you use the Bourne shell, type:

```
# DISPLAY=hostname:0.0  
# export DISPLAY
```

If you use the Korn shell, type:

```
# export DISPLAY=hostname:0.0
```

Replace *hostname* with the output of the `/usr/bin/hostname` command on the target machine.

**4. Go to the product directory by typing:**

```
% cd download-directory
```

**5. Continue to “Using the Graphical User Interface Installation” on page 33, “Using the Command-Line Installation” on page 37, or “Using Batch Installation” on page 41.**

## Remote Installation Type Two

For remote installation type two, using the target machine to install software *from* the source machine *to* the target machine, follow these steps.

---

**Note** – Step 1, Step 2, Step 3, and Step 4 are performed on the source machine.

---

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

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

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

```
share -F nfs -o ro /download-directory
```

3. Verify that your source machine 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* get 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 machine 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  -      -
```

---

**Note** – Step 5, Step 6, Step 7, Step 9, and Step 10 are performed on the target machine.

---

5. On the target machine, enable client access to the X server by typing the following at a command line:

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

6. On the target machine, log in as superuser (root) by typing:

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

7. On the target machine, create a new directory by typing:

```
# mkdir /install
```

8. Mount the product files by typing:

```
# mount source-machine:/download-directory /install
```

9. Go to the directory that you created in Step 7 by typing:

```
# cd /install
```

10. From the target machine, set your display to the monitor you are using.

If you use the C shell, type:

```
# setenv DISPLAY hostname:0.0
```

If you use the Bourne shell, type:

```
# DISPLAY=hostname:0.0
# export DISPLAY
```

If you use the Korn shell, type:

```
# export DISPLAY=hostname:0.0
```

Replace *hostname* with the output of the `/usr/bin/hostname` command on the target machine.

11. Continue to “Using the Graphical User Interface Installation” on page 33, “Using the Command-Line Installation” on page 37, or “Using Batch Installation” on page 41.

## Using the Graphical User Interface Installation

These instructions describe how to use the installer software to install the Forte Developer 7 software and the serial number.

---

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

---

1. Pick a local or remote installation method.

To help you decide, see “Choosing Local or Remote Installation” on page 29.

2. Uncompress and extract the contents of the downloaded file by typing:

```
% gunzip -c *.gz | tar xvf -
```

3. To recover disk space, remove the downloaded tar file by typing:

```
% rm -f downloaded-file.tar.gz
```

4. Go to the directory that was created when you untarred the downloaded file. For example, if the file you untarred is `Forte_Developer_for_Solaris_SPARC.tar`, then type the following:

```
% cd ForteDev_sparc
```

5. Enable client access by typing the following command in a separate shell window:

```
% xhost +
```

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

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

7. Start the installer by typing the following command at the prompt:

```
# ./installer
```

---

**Note** – Do not run the installer in the background.

---

Before the installer starts, you receive messages that ask if you have previously installed versions of the Forte Developer 7 software, multiple versions of earlier Forte Developer releases installed on the system, or other Forte Developer versions installed in the same directory.

8. To respond to the messages, type `y` if you want to continue. If you need to uninstall a previous version of Forte Developer, type `n` and go to Chapter 4 for information on uninstalling software.

When you start the installer, the Welcome pane appears.

9. Click Next in the Welcome pane.

The Binary Code License Agreement pane appears.

10. **From the Binary Code License Agreement pane, click I agree. If you choose I do not agree, you cannot continue with installation. Click Next to proceed to the Product Selection pane.**
11. **Select the software that you want to install by clicking the buttons in the Default Install column or Custom Install column.**

---

**Note** – The default selection, Solaris patches for Forte Developer 7 software, installs the patches. If you have previously installed patches, installing the default patches does not downgrade your system. For more information on patches, see the readme files in the Patch directory.

---

A default installation installs all components and all online documentation that is associated with the components.

A custom installation allows you to select which components you want to install.

12. **Click Next to continue to the Select Install Directory pane. Decide if you want to change the software installation directory from /opt.**

See “Supporting Previous Software Releases” on page 27 if you want to install this new Forte Developer release on a machine that contains previous Forte Developer releases or Sun WorkShop releases.

The installation directory that you choose is your default installation directory for this session:

- If you want to install in /opt, click Next. Note that if you already have Forte Developer software installed in /opt, you must choose a different installation directory.
- If you want to install the software in a directory other than /opt, type the new location in the text field or browse for another location. Click Next when you have selected the installation directory.

13. **(Optional) For Custom Install only, in the Component Selection pane, select the components you want to install. Click Next when you are finished selecting components.**

---

**Note** – If you are custom installing more than one product, then different Component Selection panes appear for each product.

---

14. **Click Next to continue with the installation.**

The Enter Serial Number pane appears.

15. **Enter your permanent 26-character serial number in the text box, or click the 60-day Trial button to generate a trial serial number.**

## 16. Click Next.

---

**Note** – If you are upgrading from Try and Buy software, you can exit from the installer after you have successfully entered your serial number.

---

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

---

**Note** – If you install the product in a directory named *homedirectory-name*, the installer warns you of insufficient disk space. You can ignore the message and continue with installation.

---

## 17. In the Ready to Install pane, verify the items that you want to install. When you complete your selection, click Install Now.

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

## 18. Click Next to proceed with installation.

The installing pane appears with a progress indicator.

## 19. Review the messages in the Installation Summary pane, and then click Exit to finish the installation.

## 20. If you performed a remote installation, follow these steps (if you did not perform a remote installation, skip to Step 21):

For a type one remote installation:

### a. On the target machine, disable client access by typing the following:

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

### b. Exit from superuser privileges on the source machine by typing:

```
# exit
```

For a type two remote installation:

### ● On the target machine, unmount the */install* directory by typing the following:

```
# umount /install
```

21. Exit from superuser privileges by typing:

```
# exit
```

22. Disable client access by typing:

```
% /usr/openwin/bin/xhost - target-machine-name
```

23. Review html versions of the readme files located in

`/opt/SUNWspro/docs/index.html` for specific information on new features, problems and workarounds, documentation errors, and software corrections. Text versions of the readme files are located at `/opt/SUNWspro/READMEs`.

24. Set your `PATH` and `MANPATH` variables by following the steps in “Changing `PATH` and `MANPATH` Variables” on page 45.

## Using the Command-Line Installation

These instructions describe how to install the Forte Developer 7 software using the command-line interface.

---

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

---

Follow these steps:

1. Pick a local or remote installation method.

To help you decide, see “Choosing Local or Remote Installation” on page 29.

2. Uncompress and extract the contents of the downloaded file by typing:

```
% gunzip -c *.gz | tar xvf -
```

3. To recover disk space, remove the downloaded tar file by typing:

```
% rm -f downloaded-file.tar.gz
```

4. Go to the directory that was created when you untarred the downloaded file. For example, if the file you untarred is `Forte_Developer_for_Solaris_SPARC.tar`, then type the following:

```
% cd ForteDev_sparc
```

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

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

6. Start the command-line installation by typing:

```
# ./installer -nodisplay
```

---

**Note** – Do not run the installer in the background.

---

Before the installer opens, you receive messages that ask if you have previously installed versions of the Forte Developer 7 software, multiple versions of earlier Forte Developer releases installed on the system, or other Forte Developer versions installed in the same directory.

7. Type **y** if you want to continue. If you need to uninstall a previous version of Forte Developer, type **n** and go to Chapter 4 for information on uninstalling software.
8. Press the Enter key.

The Binary Software License Agreement text appears.

---

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

---

9. After reading the Binary Software License Agreement, type **I agree** at the prompt, and press Enter to continue.  
If you type **I do not agree**, you cannot continue with installation.
10. To select or deselect a product for No Install, Default Install, or Custom Install, type the number (0-6) that corresponds to the product you are considering. Press Enter to accept the Default installation for all products.

---

**Note** – The default selection, Solaris patches for Forte Developer 7 software, installs the patches. If you have previously installed patches, installing the default patches does not downgrade your system. For more information on patches, see the readme files in the Patch directory.

---

**11. Select the type of installation you want for that product.**

- For no installation, type 1. No installation deselects a product and the product is not installed.
- For default installation, type 2. Default installation installs all components and online documentation associated with that product.
- For custom installation, type 3. Custom installation allows you to select the components of that product that you want to install. (Step 14 includes custom installation.)

**12. To select or deselect another product for installation, return to Step 10. Select Done when you are finished.**

**13. Before you can proceed, you must specify a location for installation.**

- If you want to install in the default directory, /opt, press Enter.
- If you want to select another directory, enter the name of the new directory.

**14. If you selected custom installation for a product in Step 11, select or deselect a component for installation by entering the number that corresponds to the component and press Enter. When finished, type 0 and press Enter.**

**15. Enter your permanent 26-character serial number, or select 60-day Trial to generate a Trial serial number. Press Enter.**

---

**Note** – If you are upgrading from Try and Buy software, you can exit from the installer after you successfully enter your serial number.

---

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

---

**Note** – If you install the product in a directory named *homedirectory-name*, the installer warns you of insufficient disk space. You can ignore the message and continue with installation.

---

**16. A list of products and components is shown for verification.**

- Type **1** if you want to proceed with installation.
- Type **2** if you want to start over from Step 10.
- Type **3** if you want to exit installation.

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

**17. 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.**

**18. If you performed a remote installation, follow these steps (if you did not perform a remote installation, go to Step 19):**

For a type one remote installation:

**a. On the target machine, disable client access by typing the following:**

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

**b. Exit from superuser privileges on the source machine by typing:**

```
# exit
```

For a type two remote installation:

● **On the target machine, unmount the */install* directory by typing the following:**

```
# umount /install
```

**19. Exit from superuser privileges by typing:**

```
# exit
```

**20. Review html versions of the readme files located in */opt/SUNWspro/docs/index.html* for specific information on new features, problems and workarounds, documentation errors, and software corrections. Text versions of the readme files are located at */opt/SUNWspro/READMEs*.**

**21. Set your `PATH` and `MANPATH` variables. See "Changing `PATH` and `MANPATH` Variables" on page 45.**

# Using Batch Installation

You can install the Forte Developer 7 software, Sun Performance Library 7 software, or Forte Developer 7 Source Distribution software with the batch installer for a default installation.

---

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

---

Follow these instructions for batch installation:

**1. Pick a local or remote installation method.**

To help you decide, see “Choosing Local or Remote Installation” on page 29.

**2. Uncompress and extract the contents of the downloaded file by typing:**

```
% gunzip -c *.gz | tar xvf -
```

**3. To recover disk space, remove the downloaded tar file by typing:**

```
% rm -f downloaded-file.tar.gz
```

**4. Go to the directory that was created when you untarred the downloaded file. For example, if the file you untarred is**

`Forte_Developer_for_Solaris_SPARC.tar`, **then type the following:**

```
% cd ForteDev_sparc
```

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

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

Use the following command to run the batch installer:

```
batch_installer [-s serial_number|-t|-n] [-d dirname] [-R root_path] [-h]
```

See TABLE 3-1 for the options that are available for the `batch_installer` command.

**TABLE 3-1** `batch_installer` Options and Option Descriptions

Option Name	Option Description
<code>-s serial_number</code>	Specifies the permanent serial number
<code>-t</code>	Generates a trial serial number
<code>-n</code>	Uses no serial number. Use this option for products that do not require licensing, such as third-party source software. When you use this option, the installer assumes that a serial number was installed in a previous installation.
<code>-d dirname</code>	Installs in directory <i>dirname</i>
<code>-R root_path</code>	Specifies the absolute path for the root system and product
<code>-h</code>	Displays usage

The `batch_installer` command and the options can be used in the following scenarios shown in TABLE 3-2.

**TABLE 3-2** Installation Scenarios Using the `batch_installer` Command and Options

Scenario	Command typed at the prompt
Install with a trial serial number in the default directory	<code>#!/batch_installer -t</code>
Install with a trial serial number in a different directory	<code>#!/batch_installer -t -d /dirname</code>
Install with no serial number in the default directory. You receive an error message if no serial number is found.	<code>#!/batch_installer -n</code>
Install with no serial number in a nondefault directory	<code>#!/batch_installer -n -d /dirname</code>
Install and change the root installation with a trial serial number	<code>#!/batch_installer -R /a/opt -t</code>

- 6. Choose the appropriate installation scenario from TABLE 3-2 to run the `batch_installer` command. For example, to use the options to generate the 60-day Trial serial number and to install in the default directory, type the following:**

```
# ./batch_installer -t -d /opt
```

7. After reading the Binary Software License Agreement, type **I** agree at the prompt, and press Enter to continue.

If you type **I** do not agree, you cannot continue with installation.

After you accept the Binary Software Evaluation Agreement, the installer checks for adequate disk space. The installer proceeds with installation, and the prompt returns when installation is complete.

8. If you performed a remote installation, follow these steps (if you did not perform a remote installation, skip to Step 9):

For a type one remote installation:

- a. On the target machine, disable client access by typing the following:

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

- b. Exit from superuser privileges on the source machine by typing:

```
# exit
```

For a type two remote installation:

- On the target machine, unmount the */install* directory by typing the following:

```
# umount /install
```

9. Exit from superuser privileges by typing:

```
# exit
```

10. Review html versions of the readme files located in `/opt/SUNWspro/docs/index.html` for specific information on new features, problems and workarounds, documentation errors, and software corrections. Text versions of the readme files are located at `/opt/SUNWspro/READMEs`.
11. Set your `PATH` and `MANPATH` variables. See “Changing `PATH` and `MANPATH` Variables” on page 45.

# Using the Solaris JumpStart Installer

You can use the Solaris JumpStart™ installer on the Solaris™ 9 operating environment *SPARC® Platform Edition* to automate the Forte Developer 7 software installation process to install on multiple systems. An overview of the JumpStart installation steps is listed below. See the Solaris 9 Installation Guide for *complete* details of JumpStart installation.

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

For installation that includes a serial number:

```
#!/bin/sh
cd $SI_CONFIG_DIR/web_ForteDev_sparc
./batch_installer -s xxxxxx-xxxxxxxxxx-xxxxxxxxxx -R /a
cd $SI_CONFIG_DIR/web_Forte_SRC
./batch_installer -n -R /a
cd $SI_CONFIG_DIR/web_SUN_PERF_LIB
./batch_installer -n -R /a
```

---

**Note** – This symbol xxxxxx-xxxxxxxxxx-xxxxxxxxxx in the file example above represents the product serial number.

---

For installation without including the product serial number:

```
#!/bin/sh
cd $SI_CONFIG_DIR/web_ForteDev_sparc
./batch_installer -n -R /a
cd $SI_CONFIG_DIR/web_Forte_SRC
./batch_installer -n -R /a
cd $SI_CONFIG_DIR/web_SUN_PERF_LIB
./batch_installer -n -R /a
```

---

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

---

See “Using Batch Installation” on page 41 for information on the available `batch_installer` command options.

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

## Installing Additional Software

The Sun Performance Library 7 software and Forte Developer 7 Source Distribution software are available as separate downloads.

- **To install the Sun Performance Library 7 software or Forte Developer 7 Source Distribution software, download the files from <http://sun.com/forte/fcc> and follow the instructions in “Software Installation Steps” on page 28.**

To use the installation instructions, you must substitute the Sun Performance Library 7 software or Forte Developer 7 Source Distribution software downloaded file names for any file names used as examples in the installation instructions. Serial numbers are not required for these products.

---

**Note** – You must install the Sun Performance Library 7 software and Forte Developer 7 Source Distribution software in the same directory that you used for the Forte Developer 7 installation.

---

---

## Changing PATH and MANPATH Variables

Because the Forte Developer 7 software product components and man pages are not installed into the system `/usr/bin/` and `/usr/share/man` directories, you must change your `PATH` and `MANPATH` environment variables to enable use of the Forte Developer 7 software.

---

**Note** – The paths shown in this section assume that Forte Developer packages are installed in the standard `/opt` directory. If you indicated another installation directory when you started the software, replace `/opt` in the examples with the installation path you selected.

---

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

---

**Note** – The path `/opt/SUNWspro/bin` is new for Forte Developer 7 software. For backward compatibility with earlier releases, symbolic links have been created so that it is not necessary for you to change your existing `PATH` and `MANPATH`.

---

For more information about `PATH` and `MANPATH` variables, the SunOS™ man page `csh(1)` describes the `PATH` variable for the C shell, `sh(1)` describes the `PATH` variable for the Bourne shell, and `ksh(1)` 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 Forte Developer Tools

To use the Forte Developer 7 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/bin/`.**
  - If you find the path, your `PATH` variable is already set to access Forte Developer tools. (The `/opt` path can be replaced by an alternative install path.)
  - If you do not find the path, set your `PATH` variable as described in the next step.
3. **Add the path `/opt/SUNWspro/bin/` to your `PATH` environment variable.**
  - If you are using the C shell, edit your home `.cshrc` file to add the path.
  - If you are using the Bourne shell or Korn shell, edit your home `.profile` file to add the path.

## Setting Your `MANPATH` Environment Variable So You Can Access Forte Developer Man Pages

To access Forte Developer 7 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 discussion that follows shows how to permanently add these paths to the appropriate environment variables so that all Forte Developer 7 components are always available. These commands can also be entered at a shell prompt to temporarily enable only that shell.

1. Add Forte Developer 7 software to your `PATH` and `MANPATH` variables.

---

**Note** – The `PATH` and `MANPATH` variables must be set to include Forte Developer 7 software in each user’s environment, which allows them 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
```

You are now ready to use your Forte Developer 7 software.

# Uninstalling Software With the Uninstaller

---

This chapter describes how to uninstall software products and patches that are installed on your system.

When you successfully install your software, an uninstaller is automatically generated. There are three ways to use this uninstaller to remove the Forte™ Developer 7 software:

- Using the uninstaller GUI
- Using the command-line uninstaller
- Using the batch-mode uninstaller

---

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

---

The uninstall file name examples used in these uninstall instructions are for the Forte Developer 7 software. TABLE 4-1 shows the software name and the `.class` uninstall file names that you use to uninstall the software.

**TABLE 4-1** Software Names and the Uninstall `.class` File Names for the Software

Software Name	Uninstall <code>.class</code> File Names
Forte Developer 7 software	<code>uninstall_Forte_Developer_7_SPARC.class</code>
Solaris Patches installed with Forte Developer 7 software	<code>uninstall_Solaris_patches_for_Forte_Developer_7.class</code>
Sun Performance Library 7	<code>uninstall_Sun_Performance_Library_7.class</code>
Forte Developer 7 Source Distribution	<code>uninstall_Forte_Developer_7_Source_Distribution.class</code>

---

---

# Choosing Local or Remote Uninstallation

You can uninstall the software products on a local system or remote system. For a local uninstallation, continue to “Using the Graphical User Interface Uninstaller” on page 51, “Using the Command-Line Uninstaller” on page 53, or “Using the Batch-Mode Uninstaller” on page 54.

For a remote uninstallation, do the following:

1. **On the target machine, enable client access to the X server by typing the following at a command line:**

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

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

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

```
% rlogin source-machine-name -l root
Password: root-password
```

### 3. Set your display to the monitor you are using.

If you use the C shell, type:

```
# setenv DISPLAY hostname:0
```

If you use the Bourne shell, type:

```
# DISPLAY=hostname:0  
# export DISPLAY
```

If you use the Korn shell, type:

```
# export DISPLAY=hostname:0
```

Replace *hostname* with the output of the `/usr/bin/hostname` command on the target machine.

4. Continue to “Using the Graphical User Interface Uninstaller” on page 32, “Using the Command-Line Uninstaller” on page 35, or “Using the Batch Uninstaller” on page 36.

---

## Using the Graphical User Interface Uninstaller

To run the uninstaller, follow these steps:

1. Enable client access by typing in a separate shell window:

```
% xhost +
```

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

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

3. Go to the product directory, inserting the appropriate uninstall directory name for *com.sun.forte\_developer\_7*, by typing:

```
# cd /var/sadm/prod/com.sun.forte_developer_7
```

4. To run the uninstall GUI, type the following and insert the appropriate uninstall file name for *Forte\_Developer\_7\_SPARC*:

```
# /usr/bin/java uninstall_Forte_Developer_7_SPARC
```

---

**Note** – Do not include the `.class` extension when you type the command.

---

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

5. In the Uninstall Welcome pane, click Next to continue.
6. In the Ready to Uninstall pane, click Uninstall Now.
7. Click Exit to quit the uninstaller.
8. If you performed a remote uninstallation, follow these steps (if you did not perform a remote uninstallation, skip to Step 9):
  - a. On the target machine, disable client access by typing the following:

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

- b. Exit from superuser privileges on the source machine by typing:

```
# exit
```

9. Exit from superuser privileges on the target machine by typing:

```
# exit
```

---

# Using the Command-Line Uninstaller

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

1. **Decide if you want to do a local uninstallation or remote uninstallation. See “Choosing Local or Remote Uninstallation” on page 50 for more information.**
2. **If you have not done so, become a superuser (root) by typing:**

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

3. **Go to the product directory by typing:**

```
# cd /var/sadm/prod/com.sun.forte_developer_7
```

4. **Type the following to run the command-line uninstaller, inserting the appropriate uninstall file name for *Forte\_Developer\_7\_SPARC*:**

```
# /usr/bin/java uninstall_Forte_Developer_7_SPARC -nodisplay
```

---

**Note** – Do not include the `.class` extension when you type the command.

---

The first line shows you which products will be uninstalled.

5. **Press Enter to continue.**
6. **For a full uninstallation, type 1.**  
All components are automatically removed. A progress indicator appears.
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.**
8. **Type Exit to quit the uninstaller.**
9. **If you performed a remote uninstallation, follow these steps (if you did not perform a remote uninstallation, skip to Step 10):**

- a. On the target machine, disable client access by typing the following:

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

- b. Exit from superuser privileges on the source machine by typing:

```
# exit
```

10. Exit from superuser privileges on the target machine by typing:

```
# exit
```

---

## Using the Batch-Mode Uninstaller

To remove software products with the batch-mode uninstaller, follow these steps:

1. Decide if you want to do a local uninstallation or remote uninstallation. See “Choosing Local or Remote Uninstallation” on page 50 for more information.
2. If you have not done so, become a superuser (root) by typing:

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

3. Go to the product directory, inserting the appropriate directory name for *com.sun.forte\_developer\_7*, by typing:

```
# cd /var/sadm/prod/com.sun.forte_developer_7
```

4. Type the following to run the batch uninstaller, inserting the appropriate uninstall file name for *Forte\_Developer\_7\_SPARC*:

```
# /usr/bin/java uninstall_Forte_Developer_7_SPARC -nodisplay -noconsole
```

---

**Note** – Do not include the `.class` extension when you type the command.

---

**5. Press Enter to continue.**

The batch uninstaller removes the product. When the program is finished with the uninstallation, the prompt returns.

**6. If you performed a remote uninstallation, follow these steps (if you did not perform a remote uninstallation, skip to Step 7):**

**a. On the target machine, disable client access by typing the following:**

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

**b. Exit from superuser privileges on the source machine by typing:**

```
# exit
```

**7. Exit from superuser privileges on the target machine by typing:**

```
# exit
```



# Troubleshooting

---

This chapter describes problems that can occur during Forte™ Developer 7 software installation and uninstallation.

---

## Product Registry Problems

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

### How Do I Identify and Fix a Failed Installation?

If some packages were not properly installed during installation, you will have problems using the Forte Developer 7 software. For example, if you used the `pkgadd` command to install the software, you have corrupted the `productregistry` file. To verify whether all packages were 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 you see a yellow triangle adjacent to the product name, then the product was not installed properly.

4. Select the product name, and then 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.

## 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 57, and you are still having problems, you should 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.

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

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

2. Remove the `productregistry` file by typing:

```
% rm prodregistry
```

Once the uninstallation is complete, 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 Forte Developer 7 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, inspect the files at `/var/sadm/install/logs`.

## How Do I Find the Installed Serial Number?

Look at the product log files to locate the serial number. You need the serial number to register the product. Follow these steps to view the `serial.dat` file:

1. Go to the product directory by typing:

```
% cd /opt/SUNWspro/bin/cc
```

2. View the contents of the `serial.dat` file by typing:

```
% -xlicinfo
```

## 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, contact customer support at <http://www.sun.com/forte/developer/support.html>

---

# System Modifications

In some instances, you might need to modify your system to meet the system requirements or to accommodate the product installation process.

## How Do I Install in a Directory Reached by a Symlink?

During installation, you can install in a directory where part of the path is a symlink. For example, if the default directory `/opt` does not have enough disk space, you can create a symlink of `/opt` that points to `/export/opt`. To prevent the installer from bypassing the symlink and installing in an actual file system, you need to complete the following workaround:

1. **Save the existing symlink by typing:**

```
% mv symlink temp
```

2. **Make a new `/opt` directory which will serve as a mount point by typing:**

```
% mkdir /opt
```

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

```
% mount -F nfs localhost:/directory/opt /opt
```

4. **Install the product.**
5. **Unmount the target directory by typing:**

```
% umount /opt
```

6. **Restore the symlink that you moved in Step 1.**

```
% mv temp symlink
```

# Why Does My System Freeze When I Invoke the Installer?

If your system freezes during installation, then the installer has not located the required Java™ software version.

- **Type the following at the prompt:**

```
% java -version
```

If your system freezes after typing the command, then you might have a corrupt Java™ software version.



# Forte Developer 7 Components and Packages

---

This appendix provides information about the Forte™ Developer 7 components available for software development and the feature and package names for each product.

TABLE A-1 lists the Forte Developer product package component and metacluster configuration information for the Solaris™ Operating Environment (*SPARC® Platform Edition*).

TABLE A-2 lists the Forte Developer product package component and configuration information for the Solaris *SPARC Platform Edition*.

**TABLE A-1** Forte Developer Product Package Metacluster Components for the Solaris SPARC Platform Edition

Description	Component	Metacluster Configuration
Forte Developer 7 Compilers SPROMCPL	Forte Developer 7 Compilers C	SPROCC
	Forte Developer 7 Compilers C++	SPROCCC
	Forte Developer Compilers Fortran	SPROCFOR
	Forte Developer Compilers Fortran 95 with Legacy Libraries	SPROCFORL
	Forte Developer 7 Inventory Files	SPROCFD
Forte Developer 7 Tools SPROMTOOL	Forte Developer LockLint, Product Software	SPROCLKLT
	Forte Developer 7 DBX Debugging Tools	SPROCDXB
	Forte Developer 7 Garbage Collector	SPROCLGC
	Forte Developer 7 Performance Analyzer	SPROCPRFA
	Forte Developer 7 Building Software	SPROCBLD
Forte Developer 7 Documentation Set SPROMDOCS	Forte Developer 7	SPROCDOCS
Sun Performance Library 7 SPROMPLIB	Forte Developer 7 Performance Libraries	SPROCPERF
Forte Developer 7 Source Distribution SPROMSRC	Dwarf Library	DWSRC
	Red-Black Tree Library	RDBLKSRC
	Forte Developer 7 STLPort	STLSRC

**TABLE A-2** Forte Developer Product Package Components for Solaris *SPARC Platform Edition*

<b>Component</b>	<b>Description</b>	<b>Package Lists</b>
Forte Developer 7 Compilers C SPROCC	Common components	SPROLANG
	Forte Developer incremental linker	SPROILD
	Compilers C	SPROcc
	Common tools	SPROtool
	Man pages/online information for C	SPROmrcc
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Man pages/Online information for source browser	SPROmrabe
	Source browser	SPROabe
	Sunmath library	SPROSM
Compilers C+ SPROCPL	Compiler C++	SPROcpl
	C++ Libraries (64-bit)	SPROcplx
Forte Developer 7 Compilers C++ SPROCC	Common components	SPROLANG
	Incremental linker	SPROILD
	Compilers C++	SPROCPL
	Common tools	SPROtool
	Man pages/online information for C	SPROmrcc
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Man pages/Online information for source browser	SPROmrabe
	Source browser	SPROabe
	STLPort	SPROSTLPORT
	C++ Complex Library	SPROcml
Man pages/Online information for C++	SPROmrml	
Tools.h++ 7.1	SPROTL7	
Forte Developer Standard Library for C++	SPROSCL	

**TABLE A-2** Forte Developer Product Package Components for Solaris *SPARC Platform Edition (Continued)*

<b>Component</b>	<b>Description</b>	<b>Package Lists</b>
Forte Developer Compilers Common Components SPROLANG	Common components Common components (64-bit) Linker stab library Linker stab library (64-bit) Unbundled shared libcx Dwarf support library Red-Black tree library Dwarf support library 64-bit Red-Black tree library V9	SPROlang SPROlangx SPROsbld SPROsbldx SPROlctxs SPROdwrfb SPROdbkb SPROdwrfx SPROdbkx
Forte Developer Standard Library for C++ SPROSCL	Standard Class Library for C++ Standard Class Library for C++ (64-bit) Standard Class Library man pages for C++	SPROscl SPROsclx SPROmrstd
Forte Developer Tools.h++ 7.1 SPROTL7	Tools.h++ 7.1 Class Library for C++ Tools.h++ 7.1 Class Library for C++ Tools.h++ 7.1 Class Library for C++ (64-bit) Tools.h++ 7.1 Class Library for C++ (64-bit)	SPROtlbn7 SPROtl17 SPROtl7x SPROtl17x
Forte Developer Incremental Linker SPROILD	Incremental Linker Incremental Linker 64-bit	SPROild SPROildx
Forte Developer C9X Math Library SPROM9XS	C9X Math Library C9X Math Library (64-bit) C9X Math Library Profiled (64-bit)	SPROM9xs SPROM9xsx SPROM9px
Forte Developer Sunmath Library SPROSM	libsunmath shared/profiled (64-bit) libsunmath shared (64-bit) Unbundled shared libsunmath	SPROsmpx SPROsmsx SPROsunms
STLport, Source Distribution STLSRC	STLPort version 4 source	SPROst14h

**TABLE A-2** Forte Developer Product Package Components for Solaris *SPARC Platform Edition (Continued)*

<b>Component</b>	<b>Description</b>	<b>Package Lists</b>
Forte Developer STLPort SPROSTLPORT	STLPort version 4 static library	SPROst14a
	STLPort version 4 source	SPROst14h
	STLPort version 4 dynamic library	SPROst14o
	STLPort version 4 dynamic library (64-bit)	SPROst14x
	STLPort version 4 dynamic library (64-bit)	SPROst14y
Forte Developer Compilers Fortran Cluster SPROCFOR	Compiler FORTRAN 77 Tools	SPROftool
	Forte Developer Incremental Linker	SPROILD
	Common components	SPROLANG
	Compiler Fortran 95 libraries	SPROLIB90
	Compiler Fortran 90	SPROf90
	Common tools	SPROtool
	Man pages and online information for Fortran 95	SPROmrf90
	Man page and online information for FORTRAN 77	SPROmrf77
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Sunmath library	SPROSM
	Man pages/Online information for source browser	SPROmrsbe
Source browser	SPROsbe	
Forte Developer Compilers Fortran 95 Libraries SPROLIB90	Fortran 95 static libraries	SUNW190
	Fortran 95 dynamic libraries	SUNW190s
	Fortran 95 dynamic libraries (64-bit)	SPRO190sx
	Fortran 95 static libraries (64-bit)	SPRO190x

**TABLE A-2** Forte Developer Product Package Components for Solaris *SPARC Platform Edition (Continued)*

<b>Component</b>	<b>Description</b>	<b>Package Lists</b>
Forte Developer Compilers Fortran 95 with Legacy Libraries SPROCFORL	Compiler FORTRAN 77 Tools	SPROftool
	Common components	SPROLANG
	FORTRAN 77 dynamic libraries (64-bit)	SPRO177s
	FORTRAN 77 dynamic libraries (64-bit)	SPRO177sx
	Compilers Fortran 95 libraries	SPROLIB90
	Compiler Fortran 90	SPROf90
	Forte Developer incremental linker	SPROILD
	Common tools	SPROutool
	Man pages and online information for Fortran 95	SPROmrf90
	Common compiler man pages/online information	SPROmrcom
	C9X Math Library	SPROM9XS
	Sunmath library	SPROSM
	Man pages/Online information for source browser	SPROmrsbe
	Source browser	SPROsbe
Forte Developer LockLint, Product Software SPROCLKLT	Locklint software	SPROlklnt
	Man pages and online information	SPROmrmp
Forte Developer DBX Debugging Tools SPROCDXB	Debugging tools	SPROdbx
	Debugging tools (64-bit)	SPROdbxx
	Man pages and online information for dbx	SPROmrdbx
	Debugging tools	SPROjdbx
	Debugging tools (64-bit)	SPROjdbxx
Forte Developer 7 Building Software SPROCLD	Common compiler man pages/online information	SPROmrcom
	Distributed make	SPROdmake
Forte Developer 7 Inventory Files SPROCFD	Inventory files	SPROfd
DwarfLibrary, Source Distribution DWSRC	Dwarf library	SPROdwrfs

**TABLE A-2** Forte Developer Product Package Components for Solaris *SPARC Platform Edition (Continued)*

<b>Component</b>	<b>Description</b>	<b>Package Lists</b>
RDBLKS, Source Distribution RDBLKS	Red-Black tree library	SPROrdbkb
Sun PerfLib Archive Libraries SPROPL	Performance Library 32-bit (Archive/MT)	SPROplm
	Performance Library 64-bit (Archive/MT)	SPROplmx
	Performance Library 32-bit (Archive)	SPROpl
	Performance Library 64-bit (Archive)	SPROplx
Sun PerfLib Shared Libraries SPROPLS	Performance Library 32-bit (Shared/MT)	SPROplms
	Performance Library 64-bit (Shared/MT)	SPROplmsx
	Performance Library 32-bit (Shared)	SPROpls
	Performance Library 64-bit (Shared)	SPROplsx
Forte Developer Garbage Collector SPROLGC	Garbage collector library for C++	SPROgc
	Garbage collector library 1.0 for C++	SPROlgc
	Garbage collector man pages for C++	SPROmrgc
Forte Developer Garbage Collector 64-bit Library 1.0 SPROLGCX	Garbage collector library for C++	SPROgcx
	Garbage collector library 1.0 for C++	SPROlgcx
Forte Developer Garbage Collector Cluster SPROCLGC	Forte Developer Garbage Collector	SPROLGC
	Forte Developer Garbage Collector 64-bit Library 1.0	SPROLGCX
Sun Performance Library SPROCPERF	Common components	SPROLANG
	Compiler Fortran 95 libraries	SPROLIB90
	Sun Performance Library man pages	SPROmrpl
	Performance Library common components	SPROplg
	Unbundled shared libsunmath	SPROsunms
	libsunmath shared (64-bit)	SPROsmsx
	Sun perflib archive libraries	SPROPL
Sun perfLib shared libraries	SPROPLS	

**TABLE A-2** Forte Developer Product Package Components for Solaris *SPARC Platform Edition (Continued)*

<b>Component</b>	<b>Description</b>	<b>Package Lists</b>
Forte Developer Performance Analyzer SPROCPRFA	Man pages and online information for Performance Analyzer Performance Analyzer Performance Analyzer (64-bit)	SPROmrpan SPROprfan SPROprfax
Forte Developer Documentation Set SPROCDOS	Copyright and images Release notes Tools.h++ 7.1 documentation Standard library C++ documentation Visual documentation Installation documentation Fortran documentation C compilers documentation Common tools documentation C++ compilers OpenMP API user's guide Performance library documentation Analyzer and dbx documentation	SPROhtbas SPROhtrel SPROhtt17 SPROhtstd SPROhtvis SPROhtins SPROhtftn SPROhtcc SPROhtcom SPROhtcpl SPROhtomp SPROhtpl SPROhtws

# Solaris Patch Identifications and Descriptions

This appendix provides the Solaris™ operating environment patch identification numbers and descriptions of the patches included with the Forte™ Developer 7 software installation.

TABLE B-1 lists the patch identification numbers and description for the Solaris 7 SPARC® Platform Edition.

TABLE B-2 lists the patch identification numbers and description for the Solaris 8 SPARC® Platform Edition.

**TABLE B-1** Patch Identifications and Descriptions that are Installed With the Forte Developer 7 Software for Solaris 7 SPARC Platform Edition

Patch Identification Number	Patch Description
106950-17	Linker
106327-13	Solaris 7 libC sparc

**TABLE B-2** Patch Identifications and Descriptions that are Installed With Forte Developer 7 Software for Solaris 8 SPARC Platform Edition

Patch Identification Number	Patch Description
109147-14	Solaris 8 linker
108434-06	Solaris 8 libC sparc



# 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.
- installation directory** The directory where you install Forte™ Developer 7 products and licenses. The default is /opt.
- local installation** In a local installation, the source computer and the target computer are the same machine. See *source computer* and *target computer*.
- remote installation** Where you perform the installation or download the product software on one machine (source computer) and install the software on another machine (target computer). See *source computer* and *target computer*.
- serial number** A 26-character number installed during installation.
- source computer** The machine used to install the product software. See also *local installation*, *remote installation*, and *source computer*.
- target computer** The machine with the CD-ROM drive where you loaded the product CD; the machine where you downloaded the product software. See also *local installation*, *remote installation*, and *target computer*.
- Try and Buy** Forte Developer 7 software that you install and use on a trial basis with the 60-day Trial serial number.



# Index

---

## A

accessible documentation, xi

## B

batch

command options, 19, 42  
installation, 18, 41

## C

compatibility, 5, 27  
contacting support, xii

## D

documentation index, x  
documentation, accessing, x

## I

installation

batch installer, 18, 41  
CD-ROM, 5  
command-line, 15, 37  
compatibility, 5, 27  
electronic download, 27  
graphical user interface, 11, 33  
JumpStart, 21, 44

local, 7, 29

overview, 1

remote type one, 7, 29

remote type two, 7, 8, 29, 30

installing

60-day Trial serial number, 35

serial number, 13, 35

## J

JumpStart installation, 21, 44

## L

local installation, 7, 29

## M

memory requirements, 2

monitor resolution requirements, 2

## R

remote installation

type one, 7, 29

type two, 7, 29, 30

requirements, system, 2

## **S**

- serial number
  - generating 60-day Trial, 17
  - installing, 17, 39
- shell prompts, x
- software
  - compatibility, 5, 27
  - removing, 49
- Solaris versions supported, 2
- support
  - contacting, xii
- system requirements, 2

## **T**

- typographic conventions, ix

## **U**

- uninstall file names, 49
- uninstallation
  - batch-mode, 54
  - command-line, 53
  - graphical user interface, 51

## **V**

- variables
  - changing, 22, 45
  - MANPATH, 23, 46
  - PATH, 23, 46
- version
  - compatibility, 5, 27