



Sun StorEdge™ 6920 Host Installation Software Guide

Sun Microsystems, Inc.
www.sun.com

Part No. 817-5831-10
April 2004, Revision A

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Contents

Preface vii

1. Planning for the Installation 1

Overview of the Sun StorEdge 6920 Host Installation Software 2

System Requirements 3

 Hardware and Software Requirements 3

 SAN Requirements 3

 ▼ To Set Up a SAN 4

Suggested Installation Strategies 5

 Management Station 5

 Data Host Stations 5

2. Installing the Software 7

Installation Task Summary 8

 ▼ Install the Software as the Superuser (root).version of the Storage
 Automated Diagnostic Environment software 9

 ▼ To Remove Superuser Environment or Profile Aliases 9

Pre-existing Versions of the Host Software 9

 Downloading from the Sun Download Center 10

 ▼ To Download and Install the Package 10

Installing the Software from the CD 12

Installing the Correct Configuration	12
▼ To Install the Sun StorEdge 6920 Host Installation Software	14
Post Installation Procedures	15
Sun StorEdge SAN Foundation Software	15
Storage Automated Diagnostic Environment Software	15
▼ Checking Log Files After the Installation	15
Removing the Software	16
▼ To Remove the Sun StorEdge 6920 Host Installation Software	16
3. Logging In To the Software	17
Logging In To the Software	18
Understanding User Accounts	19
Logging in Using the GUI	19
▼ To Log In to the Storage Automated Diagnostic Environment Using the GUI	20
▼ To Log Out of the GUI	20
Logging In Using the CLI	21
▼ To Log In Using the CLI	21
▼ To Log Out of the CLI	21

Tables

TABLE 1-1	Components of the Sun StorEdge 6920 Host Installation Software	2
TABLE 1-2	Required Hardware and Software	3
TABLE 2-1	Installation Task Summary	8
TABLE 2-2	Installation Script Menu Choices	13
TABLE 3-1	User Accounts	19
TABLE 3-2	<code>sscs login</code> Command Line Optional Arguments	21

Preface

This document describes the installation considerations, requirements, and procedures for the Sun StorEdge™ 6920 Host Installation and supporting software. The intended audience for this document includes Sun service and support engineers, SAN administrators, and storage system administrators.

How This Book Is Organized

Chapter 1 describes the requirements and preparation procedures for the software installation.

Chapter 2 describes how to install and remove the software.

Chapter 3 describes how to log in to the software using the Command Line Interface (CLI) and Graphical User Interface (GUI).

Using UNIX Commands

This document might not contain information on basic UNIX® commands and procedures such as shutting down the system, booting the system, and configuring devices.

See one or more of the following for this information:

- *Solaris Handbook for Sun Peripherals*
- AnswerBook2™ online documentation for the Solaris™ operating environment
- Other software documentation that you received with your system

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. % You have mail.
AaBbCc123	What you type, when contrasted with on-screen computer output	% su Password:
<i>AaBbCc123</i>	Book titles, new words or terms, words to be emphasized. Replace command-line variables with real names or values.	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. To delete a file, type <code>rm filename</code> .
[]	In syntax, brackets indicate that an argument is optional.	<code>scmadm [-d sec] [-r n[:n][,n]...] [-z]</code>
{arg arg}	In syntax, braces and pipes indicate that one of the arguments must be specified.	<code>sndradm -R b {p s}</code>
\	At the end of a command line, the backslash (\) indicates that the command continues on the next line.	<code>atm90 /dev/md/rdisk/d5 \ /dev/md/rdisk/d1 atm89 \ /dev/md/rdisk/d5 /bit- maps/map2 \ ip sync</code>

Shell Prompts

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

Related Documentation

Application	Title	Part Number
<i>Man pages</i>	<i>sscs(1M)</i>	Not applicable
<i>Release and product information</i>	<i>Sun StorEdge SAN Foundation Software 4.4 Release Notes</i>	817-TBD
	<i>Storage Automated Diagnostic Environment 2.3 Release Notes</i>	817-TBD
	<i>Sun StorEdge 6920 Series Release Notes</i>	816-TBD
	<i>Sun Patch Manager 2.0 Administration Guide</i>	TBD
<i>Installation</i>	<i>Sun StorEdge SAN Foundation Software Installation Guide</i>	817-1244
	<i>Sun StorEdge SAN Foundation Software Configuration Guide</i>	817-1245
	<i>Sun StorEdge 6920 Getting Started Guide</i>	817-5227-10
<i>User and diagnostic</i>	<i>Sun StorEdge 6920 System Regulatory and Safety Compliance Manual</i>	816-TBD
	<i>Sun StorEdge 6920 System Site Preparation Guide</i>	816-TBD

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Sun StorEdge 6920 Host Installation Software Guide, part number 817-5831-10

Planning for the Installation

This chapter describes requirements and preparation procedures for installing the Sun StorEdge 6920 Host Installation Software.

The topics described in this chapter include the following:

- [“Overview of the Sun StorEdge 6920 Host Installation Software” on page 2](#)
- [“Hardware and Software Requirements” on page 3](#)
- [“SAN Requirements” on page 3](#)
- [“Suggested Installation Strategies” on page 5](#)

Overview of the Sun StorEdge 6920 Host Installation Software

The Sun StorEdge 6920 Host Installation Software enables you to manage, monitor and transfer data for all storage systems in a storage area network (SAN) environment. The software comprises three different software utilities, as outlined in TABLE 1-1.

TABLE 1-1 Components of the Sun StorEdge 6920 Host Installation Software

Software	Description
Sun StorEdge Configuration Service Software	<p>This software enables you to managed Sun StorEdge 6920 storage systems in a SAN environment. You can perform a variety of functions by using the command-line interface (CLI):</p> <ul style="list-style-type: none">• Configure and manage storage arrays, trays, vdisks, pools, and volumes• Administer storage service processor features such as passwords, user email notification, server times and dates, and network settings.
Sun Storage Automated Diagnostic Environment Software	<p>This software is a distributed online health and diagnostic monitoring tool for SAN devices. It can be configured to monitor on a 24-hour basis, collecting information that enhances the reliability, availability, and servicability (RAS) of the storage devices.</p> <p>This software provides the following features:</p> <ul style="list-style-type: none">• A web-based user interface for device monitoring and diagnostics• Distributed test invocation by means of lists or topologies.• Support for the Storage Service Processor of the Sun StorEdge 6920 systems• Remote notification through Sun Remote Services (SRS NetConnect), Sun StorEdge Remote Response Service, HTTP and SNMP providers, or email <p>Though the Storage Automated Diagnostic Environment might already be installed on your system, the software is also on the Sun StorEdge 6920 Host Installation Software CD, and online at:</p> <p>http://www.sun.com/software/download</p> <p>Patches are required from:</p> <p>http://sunsolve.sun.com/</p>
Sun StorEdge SAN Foundation Software 4.4	<p>This software incorporates kernel drivers and utilities that enable the host to connect to, monitor and transfer data on a SAN.</p> <p>Though the Sun StorEdge SAN Foundation Software 4.4 might already be installed on your system, the software is also on the Sun StorEdge 6920 Host Installation Software CD, and is also online at:</p> <p>http://www.sun.com/software/download</p> <p>Patches are available from:</p> <p>http://sunsolve.sun.com/</p>

System Requirements

Hardware and Software Requirements

TABLE 1-2 lists the hardware and software that must be set up and installed before you can install the StorEdge 6920 Host Installation Software.

TABLE 1-2 Required Hardware and Software

Hardware Requirements	
Media Drive	A CD-ROM drive connected to the host machine where the software is to be installed.
Host Machines	The software is supported on host machines that use the Solaris Operating System.
Storage Arrays and Systems	Sun StorEdge 6920 system
Disk and Memory Requirements	1 Gbyte of disk space 256 Mbytes of system memory (512 Mbytes for best performance)
Software Requirements	
Operating Environment and Supporting Software	Solaris™ 9 OS Solaris 8 10/01 OS with patch number 110934-07 or above Java™ SDK version 1.4.0 Sun™ Management Center version 3.0
Web Browser (minimum version)	Netscape Navigator™ version 4.79 or 7.0 and later Microsoft Internet Explorer version 5.0

SAN Requirements

You can install this software on any system in your SAN environment as long as your SAN includes a Sun StorEdge 6920 system. If you do not have the Sun StorEdge SAN Foundation Software 4.4 already installed, you must also set up a

SAN using the following procedure before you install the software.

▼ To Set Up a SAN

- 1. Install the host bus adapters (HBAs) and connect the hosts, switches, and storage devices.**

See the documentation that came with your HBAs, hosts, switches, and storage devices for specific instructions on setting up that particular hardware. See the *Sun StorEdge SAN Foundation Software Installation Guide (on the CD or at <http://www.sun.com/storage/san>)* for additional information.

- 2. Install the operating environment, if necessary.**

Ensure that you are running one of the supported OSs as outlined in Table 1-3. See the Solaris OS installation and user's documentation for details.

- 3. Install the latest Recommended and Security Patch Cluster on the host.**

The Recommended and Security Patch Cluster is available at <http://sunsolve.sun.com>.

Suggested Installation Strategies

Each machine is considered a *station* and can have a different role: as either a *management* station or a *data host* station.

For the Sun StorEdge 6920 systems, the management and data host stations can be combined on a single machine, but for efficiency, install the Remote Configuration CLI software on a machine that is not in the data path (that is, a machine that is not a data host station).

Management Station

- The management station is the machine on which you install the Remote Configuration CLI `SSCS`.
- These hosts do not have to have a direct Ethernet connections to the Sun StorEdge 6920 systems, but must be on the same LAN as the 6920 systems.

Data Host Stations

The data host stations are hosts that have a SAN Fibre Channel connection to the Sun StorEdge 692 system. The Sun StorEdge SAN Foundation software should be installed on each data host connected to the fabric. Use the Storage Automated Diagnostic Environment software for monitoring and debugging any data path connectivity issues.

Installing the Software

This chapter provides instructions on the steps required to install and configure the Sun StorEdge 6920 Host Installation Software.

Note – Perform the procedures in this chapter as the superuser (root).

This chapter describes the following topics:

- [“Installation Task Summary” on page 8](#)
- [“Installing the Software from the CD” on page 12](#)
- [“Post Installation Procedures” on page 15](#)
- [“Removing the Software” on page 16](#)

Installation Task Summary

TABLE 2-2 provides a high-level overview of the tasks required to install the Sun StorEdge 6920 Host Installation Software and its location in this document.

TABLE 2-1 Installation Task Summary

Planning for the Installation	See This Section or Chapter
1. Learn about the software components.	“Overview of the Sun StorEdge 6920 Host Installation Software” on page 2 in Chapter 1
2. Make sure your system meets the hardware and SAN requirements.	
3. Determine your installation strategy.	
4. Remove Storage Automated Diagnostic Environment Software 2.2 or earlier if necessary.	
	“System Requirements” on page 3 in Chapter 1
	“Suggested Installation Strategies” on page 5 in Chapter 1
	“Pre-existing Versions of the Host Software” on page 9
Installation Steps	See This Section or Chapter
5. Install the software.	“Installing the Software from the CD” on page 12
Post-Installation Step	See This Section or Chapter
6. Configure the Storage Automated Diagnostic Environment software (if installed with the <code>install.sh</code> script).	“Storage Automated Diagnostic Environment Software” on page 15
7. Configure the Sun Storage SAN Foundation software (if installed with the <code>install.sh</code> script)	“Sun StorEdge SAN Foundation Software” on page 15
8. Check the log files for messages related to the installation.	“Checking Log Files After the Installation” on page 15
9. Log in using <code>sscs(1M)</code> or a web browser.	“Logging In To the Software” on page 18 in Chapter 3

Before you install the software, read the following sections:

- [“Suggested Installation Strategies”](#) on page 5
- [“Install the Software as the Superuser \(root\).version of the Storage Automated Diagnostic Environment software”](#) on page 9
- [“To Remove Superuser Environment or Profile Aliases”](#) on page 9
- [“Downloading from the Sun Download Center”](#) on page 10

▼ **Install the Software as the Superuser (root).version of the Storage Automated Diagnostic Environment software**

If aliases exist in the superuser environment or profile, the software installation and configuration might have unexpected results. Remove any aliases created for the environment (for example, `cp="cp -i"`) before you install or configure the software.

▼ **To Remove Superuser Environment or Profile Aliases**

- **Log in as superuser and type the appropriate command in a terminal window.**

```
# unalias -a
```

Pre-existing Versions of the Host Software

If Storage Automated Diagnostic Environment software 2.2 or earlier is already installed on the system, it must be removed before installing the version contained on the Host CD. Removing the previous version will not affect the contents of the existing database. However, if there are any pending alarms or events, they may be lost. Therefore, it is recommended that all alarms and events be addressed prior to removing the software.

Downloading from the Sun Download Center

The software is delivered on CD-ROM, but you can download the software from the Sun Download Center (SDLC).

▼ To Download and Install the Package

1. **Download the latest version of the software from the Sun Download Center by going to the following URL:**

```
/www.sun.com/software/download/
```

2. **Click the link for the Sun StorEdge 6920 Host Installation software.**

3. **Log in.**

If you have not already registered, do so and then log in.

4. **Click Accept and Continue on the Legal/License Agreement page.**

5. **Click the link for the SE6920_host_sw.tar.Z package.**

6. **Save the SE6920_host_sw.tar.Z package to a temporary working directory after you download it.**

For example:

```
# cp SE6920_host_sw.tar.Z /directory
```

where */directory* is a directory name in which to copy the package.

7. **Change to the directory in which you saved the SE6920_host_sw.tar.Z file.**

```
# cd /directory
```

8. **Uncompress the SE6920_host_sw.tar.Z package.**

```
# uncompress SE6920_host_sw.tar.Z
```

9. **Extract the SE6920_host_sw.tar package.**

```
# tar -xvf SE6920_host_sw.tar
```

10. Go to “Installing the Software from the CD” on page 12 to complete the installation.

Installing the Software from the CD

Install the software packages by using the `install.sh` script.

- [“Installing the Correct Configuration” on page 12](#)
- [“To Install the Sun StorEdge 6920 Host Installation Software” on page 14](#)

Installing the Correct Configuration

An installation script main menu is displayed when you execute the `install.sh` script. CODE EXAMPLE 2-1 contains an example of the installation script main menu. During the installation, you will have the ability to install one or all of the components that comprise the Sun StorEdge 6920 Host Installation Software.

For example, to install some of the software on the management station and some of the software on the data host station for a Sun StorEdge 6920 system, install the software as follows:

- **On the management station:** To install the Remote Configuration CLI (`sscs`), and Storage Automated Diagnostic Environment software on the management station, type `y` next to the Remote Configuration CLI (`sscs`), and Storage Automated Diagnostic Environment Software choices and `n` next to the other choices.
- **On each data host station:** To install the Sun StorEdge SAN Foundation software and Storage Automated Diagnostic Environment on a data host station, type `y` next to those two menu choices and `n` next to the other choices.

TABLE 2-2 describes the menu choices.

CODE EXAMPLE 2-1 Installation Script Main Menu

```
Host Software Installation
-----

This script installs software for your Sun StorEdge(tm) 6920
storage system.

Software components included in this distribution:
- Sun StorEdge[tm] SAN Foundation Software
- Storage Automated Diagnostic Environment
- Remote Configuration CLI (sscs)

Do you want to continue? [y/n] :
```

TABLE 2-2 Installation Script Menu Choices

If You Want to Install	Type y for These Menu Options
All packages on one machine.	<ul style="list-style-type: none">• Sun StorEdge SAN Foundation software• Storage Automated Diagnostic Environment• Remote Configuration CLI (sscs)
Remote Configuration CLI on the <i>Sun StorEdge 6920 system management station</i> .	<ul style="list-style-type: none">• Remote Configuration CLI (sscs)
Sun StorEdge SAN Foundation software on <i>each data host station</i> .	<ul style="list-style-type: none">• Sun StorEdge SAN Foundation software
Storage Automated Diagnostic Environment on <i>each data host station</i> .	<ul style="list-style-type: none">• Storage Automated Diagnostic Environment

▼ To Install the Sun StorEdge 6920 Host Installation Software

1. Log into your station as superuser.
2. Remove any defined aliases for this user.

```
# unalias -a
```

3. With the CD in the CD-ROM drive, start the Volume Manager daemon `vold(1)` (if needed).

If you downloaded the software from the Sun Download Center, and uncompressed the `SE6920_host_sw.tar` file, go to the directory where you extracted the files and then skip to step 5.

```
# /etc/init.d/volmgt start
```

4. Change to the `host_cd` directory. For example,

```
# cd /cdrom/host_cd
```

5. Execute the `install.sh` script.

```
# ./install.sh
```

The installation menu is displayed.

6. Type `y` next to menu choices corresponding to the software being installed, and `n` next to the other choices, and press Return after each choice.

For example, to install the Storage Automated Diagnostic Environment software, type `y` next to that menu choice and `n` next to the rest of the menu choices.

```
Do you want to install ...
  Sun StorEdge[tm] SAN Foundation Software [y/n]: n
  Storage Automated Diagnostic Environment [y/n]: y
  Remote Configuration CLI (sscs) [y/n]:n

You have chosen to install the following components:
  Storage Automated Diagnostic Environment
Is this correct? [y/n] y
```

Continue by following the instructions and prompts provided in the script.

7. If you installed the Sun StorEdge SAN Foundation software, install the most recent Sun StorEdge SAN Foundation software patches from <http://sunsolve.sun.com/>.
8. Go to “Post Installation Procedures” on page 15 to complete any applicable post-installation procedures.

Post Installation Procedures

Follow the post-installation procedures depending on the software you installed.

This section describes the following topics:

- “Sun StorEdge SAN Foundation Software” on page 15
- “Storage Automated Diagnostic Environment Software” on page 15
- “Checking Log Files After the Installation” on page 15

Sun StorEdge SAN Foundation Software

If you installed the Sun StorEdge SAN Foundation software, see the *Sun StorEdge SAN Foundation Software Installation Guide* (at <http://www.sun.com/storage/san>) for post-installation procedures that ensure that the product operates correctly.

Storage Automated Diagnostic Environment Software

If you installed the Storage Automated Diagnostic Environment, see the “Getting the Storage Automated Diagnostic Environment Ready” section of the *Storage Automated Diagnostic Environment User’s Guide – Device Edition* (`device.pdf`) in the `/opt/SUNWstade/docs` directory on the CD for the correct configuration procedures.

▼ Checking Log Files After the Installation

1. Check the following files for messages related to the installation if you encountered installation problems:

- `/var/sadm/install/se6920/6920_Host_SW_Install.log`
This log contains installation, removal, configuration, error, or informational messages.
 - `/var/adm/messages`
This log contains general system error or informational messages.
-

Removing the Software

To stop and remove the software, perform the following procedure.

▼ To Remove the Sun StorEdge 6920 Host Installation Software

1. **Log in to your machine as superuser.**
2. **Remove any defined aliases for this user as described in [“To Remove Superuser Environment or Profile Aliases”](#) on page 9.**
3. **Run the `uninstall.sh` script.**

```
# cd /cdrom/host_cd
# ./uninstall.sh
```

Follow any directions presented during the running of the script.

Logging In To the Software

This chapter describes the following topics:

- [“Logging In To the Software” on page 18](#)
- [“Logging in Using the GUI” on page 19](#)
- [“Logging In Using the CLI” on page 21](#)

Logging In To the Software

You can use a command line interface (CLI) or a GUI interface to log in to the software.

Read the following sections before beginning the login procedures:

- [“Understanding User Accounts” on page 19](#)

Understanding User Accounts

The Sun StorEdge 6920 system is configured with the three user accounts and their corresponding default passwords shown in TABLE 3-1. The `admin` user can use either the GUI or the CLI interface to authorize users to access the system and the software, and to set passwords for the accounts. Only users with passwords on the Storage Service Processor can log in.:

TABLE 3-1 User Accounts

User Account/ID	Description	GUI Privilege	Default Password
<code>admin</code>	An <code>admin</code> user has all administration privileges. Only the <code>admin</code> user can change passwords.	The <code>admin</code> user can add, modify, and delete users and modify system attributes on the Administration page. This user can not modify or manage any of the storage device configuration features.	<code>!admin</code>
<code>storage</code>	A <code>storage</code> user can use the software features related to storage device configuration.	The Administration page is available to this user as read-only; this user cannot modify admin settings. This user can use the features available from the Array Management and Storage Access pages.	<code>!storage</code>
<code>guest</code>	A <code>guest</code> user has read-only privileges and can view the information.	This user cannot modify any settings or feature.	<code>!guest</code>

Logging in Using the GUI

You can manage the Storage Service Processor, power sequencers, storage arrays, and related system network features using a web browser.

The GUI also enables you to launch the Sun Automated Diagnostic Environment software application. Use the Sun Automated Diagnostic Environment to monitor, detect, and diagnose array failures for Sun storage devices. After you log in, you can access each page of the GUI by clicking the labeled tabs:

- Array Management
- Jobs
- Storage Access
- Administration

Click the Help link in the right upper corner to display the online help.

▼ To Log In to the Storage Automated Diagnostic Environment Using the GUI

1. **Open your web browser.**
2. **Type one of the following URLs in the URL text field.**

Note – *hostname* is the host name where the software is installed.

```
https://hostname:6789/
```

The default host HTTPS (secure) port number is 6789.

3. **Log in depending on which feature you wish to access. For example to access the Administration page, log in as:**

```
User Name: admin
Password: !admin
```

4. **Click the Log In button.**
The Storage Automated Diagnostic Environment main window is displayed.

▼ To Log Out of the GUI

- **Click Log Out from any page in the GUI.**

Note – The connection closes automatically if there is no activity for 30 minutes

Logging In Using the CLI

You can use the `/opt/se6920/cli/bin/sscs` command to perform the same software operations as those available with the GUI. Any changes made using this command are shown in the GUI when you refresh or reload the related page in your browser. For further information, see the `sscs(1M)` man page.

If you have successfully installed the software, perform the following procedures to log in to the software using the CLI.

▼ To Log In Using the CLI

- Type the following command in a terminal window:

```
% sscs login -h SE-6920-SPname [-t] [-f] -u user  
Password: !password
```

- In this example, *SE-6920-SPname* is the Sun StorEdge 6920 Service Processor, *user* is one of the accounts (`admin`, `storage`, or `guest`) on the Storage Service Processor *SE-6920-SPname*, and *!password* is the default password for the account (`!admin`, `!storage`, or `!guest`).

TABLE 3-2 describes the optional arguments associated with the `sscs login` command for the Sun StorEdge 6920:

TABLE 3-2 `sscs login` Command Line Optional Arguments

Argument	Description
-f	Forces a login if another user with the same user name is already logged in. The duplicate user is then logged off.
-t	Log in using an HTTP connection.

▼ To Log Out of the CLI

- Type the following command:

```
# sscs logout
```


Index

SYMBOLS

/var/adm/messages logfile, 15
/var/sadm/install/se6x20/6x20_Host_SW_Install
.log logfile, 16

B

before you install the software, 8

C

CLI
 logging in, 21
 logging out, 21
configuration
 StorEdge SAN Foundation software, 15

D

data host stations, 5
downloading software, 10

H

how this book is organized, vii

I

installation, 7
 as the superuser (root), 9
 from the Sun download center, 10
 log files, 15
 software, 12, 14
 steps summary, 8
 strategies, 5, 9
 task summary, 8

L

log files
 /var/adm/messages, 16
 /var/sadm/install/se6x20/6x20_Host_SW_Inst
 all.log, 16
log files to check after installation, 15
logging in, 17
 CLI, 21
 the software, 21
 UI, 18
 web browser, 18
logging out
 CLI, 21
 web browser, 20

M

management station, 5

P

- post installation procedures
 - Sun Storage Automated Diagnostic Environment, 15
 - Sun StorEdge SAN Foundation software, 15

R

- related documentation, ix
- removing
 - profile aliases, 9
 - software, 16
 - superuser environment, 9
 - the software, 16, 17
- roles, 19

S

- SAN, setting up before installing software, 4
- SE6x20_Host_SW_Install.log logfile, 15
- setting up a SAN, 4
- shell prompts, ix
- software
 - CLI, 21
 - installation, 7
 - installing, 12
 - logging in with the CLI, 21
- sscs(1M) command, 21
- stations
 - data host, 5
 - management, 5
- stopping processes and daemons, 16
- Sun StorEdge SAN Foundation software, 15
- supported
 - software, 3

T

- typographic conventions, viii

U

- UNIX commands, viii

- sscs(1M), 21
- user accounts, StorEdge 6320, 19

W

- web browser
 - logging out, 20