

Solstice DiskSuite 4.1 Installation and Product Notes

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Solstice™ DiskSuite™ 4.1

Installation and Product Notes



General Information

- Solstice™ DiskSuite™ 4.1 is *not* backwardly compatible with previous Online: DiskSuite™ 2.0.1 and 3.0 products. It is compatible with Solstice DiskSuite 4.0. If you have one of these earlier version of Online: DiskSuite installed, you must convert your current metadevice configuration to Solstice DiskSuite 4.1. This conversion process is outlined in “Converting to Solstice DiskSuite 4.1 from Online: DiskSuite” on page 37. You do not need to convert if you are running Solstice DiskSuite 4.0.
- SPARCstorage™ Array (SSA) disks can be used for `/`, `swap`, or `/usr` file systems. Refer to *Solstice DiskSuite 4.1 User's Guide* for information on making a SPARCstorage Array into a bootable device.
- DiskSuite runs on all SPARC™ systems running Solaris™ 2.4 or a later Solaris 2.x release, and on all x86 systems running Solaris 2.4 or a later Solaris 2.x release.
- DiskSuite's diskset feature is supported only on the SPARC platform edition of Solaris. This feature is not supported on x86 systems.
- If you are not using a particular feature, such as hot spares, messages similar to the following may appear during system boot:

```
WARNING: forceload of misc/md_hotspares failed
WARNING: forceload of misc/md_trans failed
WARNING: forceload of misc/md_raid failed
```

These warnings are harmless, and may be safely ignored. They are an artifact of the way drivers are loaded during the boot process.



- When you reboot the system after installing the DiskSuite SNMP log daemon (the SUNWmdn package), the following message appears:

```
Starting mdlogd ...  
  
    /etc/opt/SUNWmd/mdlogd.cf: no configuration information  
  
    /usr/opt/SUNWmd/sbin/mdlogd: create failed
```

DiskSuite displays this message because you have not yet configured the mdlogd.cf file.

New Features

Solstice DiskSuite 4.1 includes the following new features:

- **SPARCstorage Array Management** – The DiskSuite Tool graphical user interface has been enhanced to perform administrative tasks on the SPARCstorage Array 1x0 and 2x0. These tasks include enabling and disabling NVRAM, stopping and starting disks, and viewing the status of the controller's fan and battery.
- **Metadevice Renaming and Switching** – Solstice DiskSuite 4.1 makes metadevice administration easier by supporting reconfiguration of metadevice names.
- **Event Notification** – Event notification automatically updates the DiskSuite Tool graphical user interface whenever a state change occurs in a metadevice. Examples of state changes include metadevice creation, deletion, and slice errors.
- **SunNet Manager™ Integration** – Solstice DiskSuite 4.1 is able to pass failure and error alerts via the Simple Network Management Protocol (SNMP) to a SunNet Manager Console. In turn, the SunNet Manager Console is able to launch the DiskSuite Tool graphical interface.
- **Solstice AdminSuite™ Storage Manager Integration** – Solstice DiskSuite 4.1 comes with AdminSuite Storage Manager, which provides file system and physical disk administration functionality. Storage Manager is integrated with DiskSuite Tool, enabling you to drag and drop objects between the two tools.



- **Performance Monitoring** – DiskSuite Tool gives you the capability for simple performance monitoring of metadevices and physical disks. This enables you to monitor general performance trends, look for abrupt changes, and compare data collected for different parts of a configuration.

Note – The root directory of the DiskSuite CD contains a shell script, `run_demo`, that launches a RAD demo showing many of the new features in DiskSuite 4.1.

Known Bugs

The following is a list of the currently known bugs that affect the operation of Solstice DiskSuite 4.1.

- 1224593 - WARNING: md: cannot load driver if root mounted on a metadevice

If the root file system is on a metadevice, and other metadevices use disks in a SPARCStorage Array, a message like the following can appear:

```
Oct 13 11:57:06 demo unix: WARNING: md: dl3: cannot load driver ssd
```

To work around this problem, add the following lines to `/etc/system` along with the existing MDD forceloads:

```
forceload: drv/ssd
forceload: drv/pln
forceload: drv/soc
```

- 1251634 - Interval timer stops causing DiskSuite Tool to stop updating

In some circumstances, DiskSuite Tool can “freeze,” no longer showing changes to metadevices and disks. Restart DiskSuite Tool when this happens.



- 1252864 - update_status doesn't catch CLI changes to reserve/release or fastwrite

DiskSuite Tool does not display the correct state of a SPARCStorage Array if the array is administered using `ssaadm(1m)` or `ssacli(1m)`.

Restart DiskSuite Tool if you wish the correct status to be displayed.

Solstice DiskSuite 4.1 Usage Notes

Limitations of the Solstice DiskSuite 4.1 program include the following:

- You must be root to administer Solstice DiskSuite 4.1.
- Before you can commit metadevices created using Solstice DiskSuite 4.1, a minimum of three metadevice state database replicas should exist on the Solstice DiskSuite 4.1 system. Refer to *Solstice DiskSuite 4.1 User's Guide* to create three metadevice state database replicas.
- If the system is running programs that do not share color maps, an error message similar to the following may be displayed when DiskSuite Tool is invoked:

```
Warning: Cannot allocate colormap entry for "#8caaba"
Warning:
    Cannot parse default background color spec

Warning: Cannot allocate colormap entry for "orange"
Warning: Cannot allocate colormap entry for "purple"
Warning: Cannot allocate colormap entry for "mediumseagreen"
Warning: Cannot allocate colormap entry for "firebrick"
Warning: Cannot allocate colormap entry for "tan"
```

If this error is displayed, exit both DiskSuite Tool and the other applications. Then restart DiskSuite Tool.



HTML Online Documentation

The Solstice DiskSuite 4.1 CD contains HTML versions of the following DiskSuite documentation:

- *Solstice DiskSuite 4.1 User's Guide*
- *Solstice DiskSuite 4.1 Reference*
- DiskSuite Tool Online Help
- Solstice DiskSuite 4.1 man pages
- Solstice DiskSuite 4.1 Frequently Asked Questions (FAQ)

AnswerBook™ online documentation is no longer part of the DiskSuite software.

Note – The DiskSuite HTML documentation is best viewed with a Netscape™ browser.

▼ How to Access the DiskSuite HTML Documentation

- 1. Insert the CD containing the software into the CD-ROM drive.**
If necessary, insert the CD into a caddy first.
- 2. Make sure your HTML browser is started.**
- 3. Open the following URL.**

`file:/cdrom/cdrom0/Manuals/html/index.html`

Solstice DiskSuite 4.1 Demo Packages

Do not overlay the DiskSuite 4.1 demo packages on an existing DiskSuite installation. Doing so will immediately cause your metadevices to become read-only devices. (Installing the actual DiskSuite 4.1 packages over the demo packages would return read-only metadevices to operation.)



Installation

This section provides the information necessary to perform the basic Solstice DiskSuite 4.1 installation. You can add the software packages either by using the Software Manager graphical user interface, or by using the `pkgadd` command.

Note – The format of the metadvice state database replicas beginning with the Solstice DiskSuite 4.0 release is incompatible with that of the Online: DiskSuite 2.0.1 and 3.0 releases. Because of this, Solstice DiskSuite 4.1 will not recognize or read database replicas created by Online: DiskSuite 2.0.1 or 3.0. This means that you must completely de-install any previous version of Online: DiskSuite before installing Solstice DiskSuite 4.1. You do not need to convert when upgrading from Solstice DiskSuite 4.0 to Solstice DiskSuite 4.1. If you have Online: DiskSuite 2.0.1 or 3.0, refer to “Converting to Solstice DiskSuite 4.1 from Online: DiskSuite” before using the procedures in this section to install DiskSuite.

It is assumed that you have a CD-ROM drive already installed on a machine.

The basic steps to install software from CD-ROM include:

- Making sure you have enough space for the packages
- Preparing for local or remote installation
- Choosing software packages to install
- Adding the software packages
- Viewing installed packages
- Setting the system path variables

Preparing for Installation

The following sections describe how to get ready for a local or remote DiskSuite installation on SPARC and x86 systems.

▼ **SPARC: How to Prepare for Local Installation**

This procedure assumes that Volume Management is running on the system.

- 1. Insert the CD containing the software into the CD-ROM drive.**
If necessary, insert the CD into a caddy first.



2. Change to the `/cdrom/cdrom0/sparc` directory.

```
local% cd /cdrom/cdrom0/sparc
```

You are now ready to decide which packages to install on your local machine. Go to the section “Choosing Packages” on page 9.

▼ **x86: How to Prepare for Local Installation**

This procedure assumes that Volume Management is running on the system.

1. Insert the CD containing the software into the CD-ROM drive.

If necessary, insert the CD into a caddy first.

2. Change to the `/cdrom/cdrom0/i386` directory.

```
local% cd /cdrom/cdrom0/i386
```

You are now ready to decide which packages to install on your local machine. Go to the section “Choosing Packages” on page 9.

▼ **SPARC: How to Prepare for Remote Installation**

1. On the remote machine, insert the CD containing the software the CD-ROM drive.

If necessary, insert the CD into a caddy first.

2. Put a line similar to one of the following into the `/etc/dfs/dfstab` file.

```
share -F nfs -o ro -d "CD-ROM Directory" /cdrom/cdrom0/sparc
```

This line may be different, depending on how your system is networked.

3. Export the `/cdrom/cdrom0/sparc` directory with the `shareall` command.

```
remote# shareall
```



4. On the local machine, log in as root.
5. Create the directory `/cdrom/cdrom0/sparc` (if it doesn't already exist).

```
local# mkdir -p /cdrom/cdrom0/sparc
```

You may choose another directory besides `/cdrom/cdrom0/sparc`.

6. Mount the CD-ROM as follows.

```
local# mount remote_machinename:/cdrom/cdrom0/sparc /cdrom/cdrom0/sparc
```

You're now ready to decide which packages to install onto your local machine. Go to the section "Choosing Packages" on page 9.

▼ x86: How to Prepare for Remote Installation

1. On the remote machine, insert the CD containing the software the CD-ROM drive.

If necessary, insert the CD into a caddy first.

2. Put a line similar to one of the following into the `/etc/dfs/dfstab` file.

```
share -F nfs -o ro -d "CD-ROM Directory" /cdrom/cdrom0/i386
```

This line may be different, depending on how your system is networked.

3. Export the `/cdrom/cdrom0/i386` directory with the `shareall` command.

```
remote# shareall
```

4. On the local machine, log in as root.



5. Create the directory /cdrom/cdrom0/i386 (if it doesn't already exist) .

```
local# mkdir -p /cdrom/cdrom0/i386
```

You may choose another directory besides /cdrom/cdrom0/i386.

6. Mount the CD-ROM as follows.

```
local# mount remote_machinename:/cdrom/cdrom0/i386 /cdrom/cdrom0/i386
```

You're now ready to decide which packages to install onto your local machine. Go to the section "Choosing Packages" on page 9.

Choosing Packages

This section describes the DiskSuite packages. In addition to the DiskSuite packages, you can install the packages for Solstice AdminSuite Storage Manager, a graphical tool for administering file systems and disks.

If AdminSuite 2.2 or a later version is already installed on your system, do not install any of the AdminSuite packages included with DiskSuite.

You must install packages in the order shown in Table 1 for the software to function correctly.

Table 1 Solstice DiskSuite 4.1 Packages

Package	Contains ...	Required or Optional
SUNWadm5u SUNWadm5r	Additional support for AdminSuite and Solaris 2.4	Required for AdminSuite Storage Manager
SUNWsadm SUNWsadm SUNWsadm1 SUNWadmsm	Support for AdminSuite and Storage Manager	Required for AdminSuite Storage Manager
SUNWmd	The base DiskSuite product	Required
SUNWmdg	DiskSuite Tool graphical user interface	Optional, but recommended
SUNWmdn	DiskSuite SNMP log daemon	Optional



Adding Packages

This section describes two methods to install DiskSuite packages. To install packages with the Software Manager graphical user interface, go to “How to Add Packages Using Software Manager” on page 10. To install packages with the `pkgadd` command, go to “How to Add Packages Using the `pkgadd` Command” on page 11.

Note – If you use Software Manager to install the software, the ordering of the packages is handled automatically.

▼ How to Add Packages Using Software Manager

This procedure assumes that root has membership in the `sysadmin` group (gid 14).

1. Become root (if you haven’t already).

```
local% su
Password: <root-password>
```

2. Start Software Manager.

```
# swmtool &
```

In Solaris 2.5 and later versions, `Admintool` is invoked.

3. Select Add from the Edit menu.

The `Admintool: Set Source Media` window may appear. If so, specify the path to the installation media then click OK. The default path is a mounted CD.

4. Choose the packages you want to install.

Click the box next to each software component in the Software list. There are multiple packages per component.

When you choose to install software using `Admintool`, the packages are installed in the proper order, regardless of the selection order.



5. Click the Add button.

A Command Tool window appears for the installation process.

6. Respond with `y` to any prompts about continuing the installation.

7. Ignore the following message that appears after the installation has finished.

```
System warning: No such file or directory, extras menu file
/usr/lib/.text_extras_menu (Textsw package)
```

8. After the packages are installed, reboot the system as directed.

▼ **How to Add Packages Using the `pkgadd` Command**

1. Become root (if you haven't already).

```
local% su
Password: <root-password>
```

2. Change to the directory on which the CD-ROM is mounted.

Use the directory that you specified when preparing for a local or remote installation. For example, on a SPARC system change to the `/cdrom/cdrom0/sparc` directory.

```
local# cd /cdrom/cdrom0/sparc
```

3. Run `pkgadd` to install packages.

```
local# pkgadd -d .
```

Note – If the `pkgadd` command is not in your current path, you must specify the full path to the command (`/usr/sbin/pkgadd`).



4. Choose the packages you want to install.

`pkgadd` displays the available packages and prompts you to enter the number associated with a package. Packages must be installed in the order listed in Table 1 on page 9.

When choosing packages to install, do not select `all`. Instead, type the package numbers one at a time, separated by commas. Refer to the section “Example — SPARC: Adding DiskSuite Packages from a Local CD Using `pkgadd`” for an example of installing all DiskSuite packages.

5. Respond with `y` to any prompts about continuing with the installation.

`pkgadd` installs the DiskSuite files in the `/usr/opt/SUNWmd` directory, as well as in other system directories. The program loops until you press `q` to quit.

6. After the packages are installed, reboot the system as directed.

Example — SPARC: Adding DiskSuite Packages from a Local CD Using `pkgadd`

The example shown on the following pages demonstrates installing AdminSuite Storage Manager and DiskSuite on a SPARC system running Solaris 2.4.

Note – Do not be concerned if the screens displayed when you install this product do not appear exactly as shown in the following example.



```
# pkgadd -d .
```

```
The following packages are available:
```

- 1 SUNWadm5r Solstice AdminSuite root supplement for Solaris 2.3 and 2.4
(sparc) 6.5,REV=95.10.26.00.11
- 2 SUNWadm5u Solstice AdminSuite supplement for Solaris 2.3 and 2.4
(sparc) 6.5,REV=95.10.26.00.11
- 3 SUNWadmsm Solstice AdminSuite Storage Manager Application
(sparc) 6.5,REV=96.04.18.16.52
- 4 SUNWmd Solstice DiskSuite
(sparc) 4.1-FCS,REV=6.0
- 5 SUNWmdg Solstice DiskSuite Tool
(sparc) 4.1-FCS,REV=6.0
- 6 SUNWmdn Solstice DiskSuite Log Daemon
(sparc) 4.1-FCS,REV=6.0
- 7 SUNWsdmcs Solstice AdminSuite Core Methods
(sparc) 6.5,REV=96.04.18.16.51
- 8 SUNWsdml Solstice Admintool Launcher.
(sparc) 6.5,REV=95.10.26.23.04
- 9 SUNWsdmo Solstice AdminSuite Object Libraries
(sparc) 6.5,REV=96.04.18.16.51

```
Select package(s) you wish to process (or 'all' to process  
all packages). (default: all) [?,??,q]: 2,1,7,9,8,3,4,5,6
```

```
Processing package instance <SUNWadm5u> from </cdrom/cdrom0/sparc>
```

```
Solstice AdminSuite root supplement for Solaris 2.3 and 2.4  
(sparc) 6.5,REV=95.10.26.00.11
```

```
Copyright 1995 Sun Microsystems, Inc. All Rights Reserved.  
. . . (miscellaneous copyright information) . . .  
This product incorporates technology used under license from Fulcrum  
Technologies, Inc.  
Using </> as the package base directory.  
## Processing package information.
```

```
(continued on following page)
```



```
## Processing system information.
WARNING:
  The <SUNWadmfw> package "System & Network
  Administration Framework" is a prerequisite package and
  should be installed. Allowable instances include (in
  order of preference:)
      6.0.8
      6.4.13

## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

Do you want to continue with the installation of <SUNWadm5u> [y,n,?] y

Installing Solstice AdminSuite supplement for Solaris 2.3 and 2.4 as
<SUNWadm5u>

## Installing part 1 of 1.
/usr/sbin/sadmsec
/usr/snadm/classes/system/admpipe
[ verifying class <none> ]
## Executing postinstall script.
Authentication could not open acl file system

Installation of <SUNWadm5u> was successful.

Processing package instance <SUNWadm5r> from </cdrom/cdrom0/sparc>

Solstice AdminSuite supplement for Solaris 2.3 and 2.4
(sparc) 6.5,REV=95.10.26.00.11
. . . (miscellaneous copyright information) . . .
This product incorporates technology used under license from Fulcrum
Technologies, Inc.
## Processing package information.
## Processing system information.
## Verifying package dependencies.
```

(continued on following page)



```
WARNING:
  The <SUNWadmfw> package "System & Network
  Administration Framework" is a prerequisite package and
  should be installed. Allowable instances include (in
  order of preference:)
      6.0.8
      6.4.13

Do you want to continue with the installation of <SUNWadm5r> [y,n,?] y
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

Do you want to continue with the installation of <SUNWadm5r> [y,n,?] y

Installing Solstice AdminSuite root supplement for Solaris 2.3 and 2.4 as
<SUNWadm5r>

## Installing part 1 of 1.
## Executing postinstall script.

Installation of <SUNWadm5r> was successful.

Processing package instance <SUNWsadm5r> from </cdrom/cdrom0/sparc>

Solstice AdminSuite Core Methods
(sparc) 6.5,REV=96.04.18.16.51
. . . (miscellaneous copyright information) . . .
Using </opt> as the package base directory.
## Processing package information.
## Processing system information.
  1 package pathname is already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

      (continued on following page)
```



This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <SUNWsdmc> [y,n,?] **y**

Installing Solstice AdminSuite Core Methods as <SUNWsdmc>

```
## Installing part 1 of 1.
/opt/SUNWadm/2.2/classes/.superclass
/opt/SUNWadm/2.2/classes/.textdomains
/opt/SUNWadm/2.2/classes/base_system.2.2/.acl
/opt/SUNWadm/2.2/classes/base_system.2.2/.acllock
/opt/SUNWadm/2.2/classes/base_system.2.2/get_date
/opt/SUNWadm/2.2/classes/base_system.2.2/get_default_ip_route
/opt/SUNWadm/2.2/classes/base_system.2.2/get_domain
/opt/SUNWadm/2.2/classes/base_system.2.2/get_net_if_ether_addr
/opt/SUNWadm/2.2/classes/base_system.2.2/get_net_if_ip_addr
/opt/SUNWadm/2.2/classes/base_system.2.2/get_net_if_ip_netmask
/opt/SUNWadm/2.2/classes/base_system.2.2/get_net_if_names
/opt/SUNWadm/2.2/classes/base_system.2.2/get_nodename
/opt/SUNWadm/2.2/classes/base_system.2.2/get_sysinfo
/opt/SUNWadm/2.2/classes/base_system.2.2/get_timezone
/opt/SUNWadm/2.2/classes/base_system.2.2/get_version
/opt/SUNWadm/2.2/classes/base_system.2.2/set_date
/opt/SUNWadm/2.2/classes/base_system.2.2/set_default_ip_route
/opt/SUNWadm/2.2/classes/base_system.2.2/set_domain
/opt/SUNWadm/2.2/classes/base_system.2.2/set_net_if_ip_addr
/opt/SUNWadm/2.2/classes/base_system.2.2/set_net_if_ip_netmask
/opt/SUNWadm/2.2/classes/base_system.2.2/set_net_if_status
/opt/SUNWadm/2.2/classes/base_system.2.2/set_nodename
/opt/SUNWadm/2.2/classes/base_system.2.2/set_run_level
/opt/SUNWadm/2.2/classes/base_system.2.2/set_timezone
/opt/SUNWadm/2.2/classes/base_system.2.2/sync_date
/opt/SUNWadm/2.2/classes/database.2.2/.acl
/opt/SUNWadm/2.2/classes/database.2.2/.acllock
/opt/SUNWadm/2.2/classes/database.2.2/check_nskit
/opt/SUNWadm/2.2/classes/database.2.2/get_aliases_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_auto_home_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_bootparams_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_cred_entry <symbolic link>
```

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```
/opt/SUNWadm/2.2/classes/database.2.2/get_ethers_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_groups_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_hosts_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_key_value_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_locale_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_netgroup_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_netmasks_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_networks_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_passwd_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_policy_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_protocols_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_rpc_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_services_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/get_timezone_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_aliases <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_auto_home <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_bootparams <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_cred <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_ethers <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_groups <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_hosts <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_key_value <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_locale <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_netgroup <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_netmasks <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_networks <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_passwd <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_policy <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_protocols <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_rpc <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_services <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/list_timezone <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/make_nis
/opt/SUNWadm/2.2/classes/database.2.2/method
/opt/SUNWadm/2.2/classes/database.2.2/remove_aliases_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_auto_home_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_bootparams_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_cred_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_ethers_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_groups_entry <symbolic link>
```

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```
/opt/SUNWadm/2.2/classes/database.2.2/remove_hosts_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_key_value_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_locale_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_netgroup_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_netmasks_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_networks_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_passwd_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_policy_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_protocols_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_rpc_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_services_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/remove_timezone_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_aliases_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_auto_home_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_bootparams_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_cred_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_ethers_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_groups_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_hosts_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_key_value_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_locale_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_netgroup_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_netmasks_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_networks_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_passwd_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_policy_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_protocols_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_rpc_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_services_entry <symbolic link>
/opt/SUNWadm/2.2/classes/database.2.2/set_timezone_entry <symbolic link>
/opt/SUNWadm/2.2/classes/directory.2.2/.acl
/opt/SUNWadm/2.2/classes/directory.2.2/.acllock
/opt/SUNWadm/2.2/classes/directory.2.2/create_dir
/opt/SUNWadm/2.2/classes/directory.2.2/get_server_and_path
/opt/SUNWadm/2.2/classes/directory.2.2/list_dir
/opt/SUNWadm/2.2/classes/directory.2.2/modify_dir
/opt/SUNWadm/2.2/classes/directory.2.2/modify_file <symbolic link>
/opt/SUNWadm/2.2/classes/directory.2.2/remove_dir
/opt/SUNWadm/2.2/classes/directory.2.2/remove_file <symbolic link>
/opt/SUNWadm/2.2/classes/directory.2.2/view_dir
```

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```
/opt/SUNWadm/2.2/classes/directory.2.2/view_file <symbolic link>
/opt/SUNWadm/2.2/classes/install.2.2/.acl
/opt/SUNWadm/2.2/classes/install.2.2/.acllock
/opt/SUNWadm/2.2/classes/install.2.2/get_os_pathnames
/opt/SUNWadm/2.2/classes/install.2.2/list_supported_archs
/opt/SUNWadm/2.2/classes/install.2.2/os_service_modification
/opt/SUNWadm/2.2/classes/modem.2.2/.acl
/opt/SUNWadm/2.2/classes/modem.2.2/.acllock
/opt/SUNWadm/2.2/classes/modem.2.2/add_modem
/opt/SUNWadm/2.2/classes/modem.2.2/delete_modem
/opt/SUNWadm/2.2/classes/modem.2.2/list_modem
/opt/SUNWadm/2.2/classes/object.2.2/.acl
/opt/SUNWadm/2.2/classes/object.2.2/.acllock
/opt/SUNWadm/2.2/classes/printer.2.2/.acl
/opt/SUNWadm/2.2/classes/printer.2.2/add_lp_printer
/opt/SUNWadm/2.2/classes/printer.2.2/add_remote_printer
/opt/SUNWadm/2.2/classes/printer.2.2/get_default_printer
/opt/SUNWadm/2.2/classes/printer.2.2/list_devices
/opt/SUNWadm/2.2/classes/printer.2.2/list_printers
/opt/SUNWadm/2.2/classes/printer.2.2/modify_printer
/opt/SUNWadm/2.2/classes/printer.2.2/modify_remote_printer
/opt/SUNWadm/2.2/classes/printer.2.2/remove_printer
/opt/SUNWadm/2.2/classes/printer.2.2/view_printer
/opt/SUNWadm/2.2/classes/system.2.2/.acl
/opt/SUNWadm/2.2/classes/system.2.2/.acllock
/opt/SUNWadm/2.2/classes/system.2.2/acquire_lock
/opt/SUNWadm/2.2/classes/system.2.2/admpipe
/opt/SUNWadm/2.2/classes/system.2.2/check_fs
/opt/SUNWadm/2.2/classes/system.2.2/check_server_status
/opt/SUNWadm/2.2/classes/system.2.2/config_nsswitch
/opt/SUNWadm/2.2/classes/system.2.2/create_client_env
/opt/SUNWadm/2.2/classes/system.2.2/create_fs
/opt/SUNWadm/2.2/classes/system.2.2/create_install_client_env
/opt/SUNWadm/2.2/classes/system.2.2/customize_4xclient_env
/opt/SUNWadm/2.2/classes/system.2.2/customize_client_env
/opt/SUNWadm/2.2/classes/system.2.2/find_file_in_path
/opt/SUNWadm/2.2/classes/system.2.2/get_autoclients
/opt/SUNWadm/2.2/classes/system.2.2/get_best_net_if
/opt/SUNWadm/2.2/classes/system.2.2/get_bp_servers
/opt/SUNWadm/2.2/classes/system.2.2/get_disks
```

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```
/opt/SUNWadm/2.2/classes/system.2.2/get_ds_events
/opt/SUNWadm/2.2/classes/system.2.2/get_elf_libs
/opt/SUNWadm/2.2/classes/system.2.2/get_file_checksum
/opt/SUNWadm/2.2/classes/system.2.2/get_file_permissions
/opt/SUNWadm/2.2/classes/system.2.2/get_file_type
/opt/SUNWadm/2.2/classes/system.2.2/get_fs_info
/opt/SUNWadm/2.2/classes/system.2.2/get_host_info
/opt/SUNWadm/2.2/classes/system.2.2/get_kernel_rev
/opt/SUNWadm/2.2/classes/system.2.2/get_metadevices
/opt/SUNWadm/2.2/classes/system.2.2/get_metaset_components
/opt/SUNWadm/2.2/classes/system.2.2/get_metaset_names
/opt/SUNWadm/2.2/classes/system.2.2/get_openwin_rev
/opt/SUNWadm/2.2/classes/system.2.2/get_rminstall_mountpts
/opt/SUNWadm/2.2/classes/system.2.2/grow_fs
/opt/SUNWadm/2.2/classes/system.2.2/list_patches
/opt/SUNWadm/2.2/classes/system.2.2/modify_client
/opt/SUNWadm/2.2/classes/system.2.2/mount_all_fs
/opt/SUNWadm/2.2/classes/system.2.2/mountfs
/opt/SUNWadm/2.2/classes/system.2.2/nisinit <symbolic link>
/opt/SUNWadm/2.2/classes/system.2.2/pop_vfs
/opt/SUNWadm/2.2/classes/system.2.2/push_vfs
/opt/SUNWadm/2.2/classes/system.2.2/put_disk_info
/opt/SUNWadm/2.2/classes/system.2.2/read_profiles
/opt/SUNWadm/2.2/classes/system.2.2/release_lock
/opt/SUNWadm/2.2/classes/system.2.2/remove_lb_ntoa_entry
/opt/SUNWadm/2.2/classes/system.2.2/rm_client_env
/opt/SUNWadm/2.2/classes/system.2.2/rm_server_info
/opt/SUNWadm/2.2/classes/system.2.2/set_lb_ntoa_entry
/opt/SUNWadm/2.2/classes/system.2.2/setup_server_info
/opt/SUNWadm/2.2/classes/system.2.2/sharefs
/opt/SUNWadm/2.2/classes/system.2.2/show_mountfs
/opt/SUNWadm/2.2/classes/system.2.2/show_sharefs
/opt/SUNWadm/2.2/classes/system.2.2/unmountfs
/opt/SUNWadm/2.2/classes/system.2.2/unsharefs
/opt/SUNWadm/2.2/classes/system.2.2/yp_init_aliases
/opt/SUNWadm/2.2/classes/system.2.2/yp_init_binding
/opt/SUNWadm/2.2/etc/policy.defaults
/opt/SUNWadm/2.2/etc/policy.mk_target
/opt/SUNWadm/2.2/lib/libadmagt.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmagt.so.2
```

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```
/opt/SUNWadm/2.2/lib/libadmapm.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmapm.so.2
/opt/SUNWadm/2.2/lib/libadmapp.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmapp.so.2
/opt/SUNWadm/2.2/lib/libadmcom.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmcom.so.2
/opt/SUNWadm/2.2/lib/libadmdb.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmdb.so.2
/opt/SUNWadm/2.2/lib/libadmhost.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmhost.so.2
/opt/SUNWadm/2.2/lib/libadmldb.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmldb.so.2
/opt/SUNWadm/2.2/lib/libadmsec.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmsec.so.2
/opt/SUNWadm/2.2/lib/libadmsw.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmsw.so.2
/opt/SUNWadm/2.2/lib/libadmusr.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmusr.so.2
/opt/SUNWadm/2.2/lib/libadmutil.so <symbolic link>
/opt/SUNWadm/2.2/lib/libadmutil.so.2
/opt/SUNWadm/2.2/lib/libbase_system_msgs.so <symbolic link>
/opt/SUNWadm/2.2/lib/libbase_system_msgs.so.1
/opt/SUNWadm/2.2/lib/libinstall.so <symbolic link>
/opt/SUNWadm/2.2/lib/libinstall.so.2
/opt/SUNWadm/2.2/lib/libprinter.so <symbolic link>
/opt/SUNWadm/2.2/lib/libprinter.so.2
/opt/SUNWadm/2.2/lib/libprinter_msgs.so <symbolic link>
/opt/SUNWadm/2.2/lib/libprinter_msgs.so.1
/opt/SUNWadm/2.2/lib/libserial.so <symbolic link>
/opt/SUNWadm/2.2/lib/libserial.so.2
/opt/SUNWadm/2.2/lib/libstorage.so <symbolic link>
/opt/SUNWadm/2.2/lib/libstorage.so.1
/opt/SUNWadm/2.2/lib/libsw.so <symbolic link>
/opt/SUNWadm/2.2/lib/libsw.so.2
/opt/SUNWadm/2.2/lib/libsystem_msgs.so <symbolic link>
/opt/SUNWadm/2.2/lib/libsystem_msgs.so.1
[ verifying class <none> ]
## Executing postinstall script.

Installation of <SUNWsadm> was successful.
```

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```
Processing package instance <SUNWsadmo> from </cdrom/cdrom0/sparc>
```

```
Solstice AdminSuite Object Libraries  
(sparc) 6.5,REV=96.04.18.16.51  
. . . (miscellaneous copyright information) . . .
```

```
Using </opt> as the package base directory.  
## Processing package information.  
## Processing system information.  
    3 package pathnames are already properly installed.  
## Verifying package dependencies.  
## Verifying disk space requirements.  
## Checking for conflicts with packages already installed.  
## Checking for setuid/setgid programs.
```

```
Installing Solstice AdminSuite Object Libraries as <SUNWsadmo>
```

```
## Installing part 1 of 1.  
/opt/SUNWadm/2.2/lib/libadmObjs.so <symbolic link>  
/opt/SUNWadm/2.2/lib/libadmObjs.so.2  
/opt/SUNWadm/2.2/lib/libexception.so <symbolic link>  
/opt/SUNWadm/2.2/lib/libexception.so.2  
/opt/SUNWadm/2.2/lib/libnihcl.so <symbolic link>  
/opt/SUNWadm/2.2/lib/libnihcl.so.2  
[ verifying class <none> ]
```

```
Installation of <SUNWsadmo> was successful.
```

```
Processing package instance <SUNWsadml> from </cdrom/cdrom0/sparc>
```

```
Solstice Admintool Launcher.  
(sparc) 6.5,REV=95.10.26.23.04  
. . . (miscellaneous copyright information) . . .  
This product incorporates technology used under license from Fulcrum  
Technologies, Inc.
```

```
Using </> as the package base directory.  
## Processing package information.  
## Processing system information.  
    10 package pathnames are already properly installed.
```

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```
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

The following files are being installed with setuid and/or setgid
permissions:
  /usr/bin/solstice <setgid bin>

Installing Solstice Admintool Launcher as <SUNWsadml>

## Installing part 1 of 1.

/usr/bin/solstice
/usr/snadm/bin/soladdapp
/usr/snadm/bin/soldelapp
/usr/snadm/classes/locale/C/help/solstice/howto/Howto
/usr/snadm/classes/locale/C/help/solstice/howto/addapp.h.hlp
/usr/snadm/classes/locale/C/help/solstice/howto/launch.h.hlp
/usr/snadm/classes/locale/C/help/solstice/howto/modprop.h.hlp
/usr/snadm/classes/locale/C/help/solstice/howto/path.h.hlp
/usr/snadm/classes/locale/C/help/solstice/howto/props.h.hlp
/usr/snadm/classes/locale/C/help/solstice/reference/Reference
/usr/snadm/classes/locale/C/help/solstice/reference/glossary.r.hlp
/usr/snadm/classes/locale/C/help/solstice/topics/Topics
/usr/snadm/classes/locale/C/help/solstice/topics/athelp.t.hlp
/usr/snadm/classes/locale/C/help/solstice/topics/registry.t.hlp
/usr/snadm/classes/locale/C/help/solstice/topics/solstice.t.hlp
/usr/snadm/lib/liblauncher.so <symbolic link>
/usr/snadm/lib/liblauncher.so.3
[ verifying class <none> ]

Installation of <SUNWsadml> was successful.

Processing package instance <SUNWadmsm> from </cdrom/cdrom0/sparc>

Solstice AdminSuite Storage Manager Application
(sparc) 6.5,REV=96.04.18.16.52

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```



```
. . . (miscellaneous copyright information) . . .
Using </opt> as the package base directory.
## Processing package information.
## Processing system information.
    10 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

The following files are being installed with setuid and/or setgid
permissions:
    /opt/SUNWadm/2.2/bin/stomgr <setgid bin>

Do you want to install these as setuid/setgid files [y,n,?,q]  y

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

Do you want to continue with the installation of <SUNWadmsm> [y,n,?]  y

Installing Solstice AdminSuite Storage Manager Application as <SUNWadmsm>

## Installing part 1 of 1.
/opt/SUNWadm/2.2/bin/stomgr
/opt/SUNWadm/2.2/classes/locale/C/app-defaults/Solstice
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/disk_drag.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/disk_drag_mask.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/drop_none.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/drop_none_mask.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/drop_not_ok.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/drop_not_ok_mask.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/drop_ok.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/drop_ok_mask.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/fs_drag.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/fs_drag_mask.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/multi_drag.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/multi_drag_mask.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/slice_drag.xbm
/opt/SUNWadm/2.2/classes/locale/C/bitmaps/slice_drag_mask.xbm

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```



```
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/Howto
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/diskmgr_clonedisk.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/diskmgr_filter.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/diskmgr_modfdisk.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/diskmgr_modlabel.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/diskmgr_modslices.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/fsmgr_active.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/fsmgr_client_static.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/fsmgr_createfs.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/fsmgr_mount.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/fsmgr_prop.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/fsmgr_share.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/howto/fsmgr_static.h.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/Reference
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/button_defs.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/diskmgr_label.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/diskmgr_mainwin.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/diskmgr_menus.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/diskmgr_partitions.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/diskmgr_propbook.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/diskmgr_slices.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_automount.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_dev.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_mainwin.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_menus.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_mount.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_mountnfs.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_owner.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_populate.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_propbook.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_server.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_share.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/fsmgr_usage.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/glossary.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/key_shortcuts2.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/stomgr_diskset.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/stomgr_filesystem.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/stomgr_host.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/stomgr_nameserv.r.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/reference/stomgr_propbook.r.hlp
```

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```
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/topics/athelp.t.hlp
/opt/SUNWadm/2.2/classes/locale/C/help/stomgr/topics/stomgr.t.hlp
/opt/SUNWadm/2.2/etc/diskmgr.xpm
/opt/SUNWadm/2.2/etc/fsmgr.xpm
/opt/SUNWadm/2.2/etc/stomgr.xpm
[ verifying class <none> ]
## Executing postinstall script.

Installation of <SUNWadmsm> was successful.

Processing package instance <SUNWmd> from </cdrom/cdrom0/sparc>

Solstice DiskSuite
(sparc) 4.1-FCS,REV=6.0
. . . (miscellaneous copyright information) . . .
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    15 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

Do you want to continue with the installation of <SUNWmd> [y,n,?] y

Installing Solstice DiskSuite as <SUNWmd>
## Executing preinstall script.
## Installing part 1 of 1.
/etc/init.d/SUNWmd.init
/etc/init.d/SUNWmd.sync
/etc/opt/SUNWmd/lock
/etc/opt/SUNWmd/md.ctrlmap
/etc/rc2.d/S95SUNWmd.sync <symbolic link>
/etc/rcS.d/S35SUNWmd.init <symbolic link>
/kernel/drv/md
/kernel/misc/md_hotspares

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```



```
/kernel/misc/md_mirror
/kernel/misc/md_notify
/kernel/misc/md_raid
/kernel/misc/md_stripe
/kernel/misc/md_trans
/usr/lib/drv/config_md.so.1
/usr/lib/drv/preen_md.so.1
/usr/opt/SUNWmd/locale/C/LC_MESSAGES/SUNWmd.po
/usr/opt/SUNWmd/man/man1m/growfs.1m
/usr/opt/SUNWmd/man/man1m/metaclear.1m
/usr/opt/SUNWmd/man/man1m/metadb.1m
/usr/opt/SUNWmd/man/man1m/metadetach.1m
/usr/opt/SUNWmd/man/man1m/metahs.1m
/usr/opt/SUNWmd/man/man1m/metainit.1m
/usr/opt/SUNWmd/man/man1m/metaoffline.1m
/usr/opt/SUNWmd/man/man1m/metaonline.1m
/usr/opt/SUNWmd/man/man1m/metaparam.1m
/usr/opt/SUNWmd/man/man1m/metarename.1m
/usr/opt/SUNWmd/man/man1m/metareplace.1m
/usr/opt/SUNWmd/man/man1m/metaroot.1m
/usr/opt/SUNWmd/man/man1m/metaset.1m
/usr/opt/SUNWmd/man/man1m/metastat.1m
/usr/opt/SUNWmd/man/man1m/metasync.1m
/usr/opt/SUNWmd/man/man1m/metattach.1m
/usr/opt/SUNWmd/man/man1m/rpc.metad.1m
/usr/opt/SUNWmd/man/man1m/rpc.metamhd.1m
/usr/opt/SUNWmd/man/man4/md.cf.4
/usr/opt/SUNWmd/man/man4/md.tab.4
/usr/opt/SUNWmd/man/man4/mddb.cf.4
/usr/opt/SUNWmd/man/man7/md.7
/usr/opt/SUNWmd/sbin/growfs
/usr/opt/SUNWmd/sbin/metaclear
/usr/opt/SUNWmd/sbin/metadb
/usr/opt/SUNWmd/sbin/metadetach
/usr/opt/SUNWmd/sbin/metahs
/usr/opt/SUNWmd/sbin/metainit
/usr/opt/SUNWmd/sbin/metaoffline
/usr/opt/SUNWmd/sbin/metaonline
/usr/opt/SUNWmd/sbin/metaparam
/usr/opt/SUNWmd/sbin/metarename
```

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```
/usr/opt/SUNWmd/sbin/metareplace
/usr/opt/SUNWmd/sbin/metaroot
/usr/opt/SUNWmd/sbin/metaset
/usr/opt/SUNWmd/sbin/metastat
/usr/opt/SUNWmd/sbin/metasync
/usr/opt/SUNWmd/sbin/metattach
/usr/opt/SUNWmd/sbin/rpc.metad
/usr/opt/SUNWmd/sbin/rpc.metamhd
[ verifying class <none> ]
cp /cdrom/cdrom0/sparc/sparc/SUNWmd/reloc/etc/opt/SUNWmd/md.cf
/etc/opt/SUNWmd/md.cf
cp /cdrom/cdrom0/sparc/sparc/SUNWmd/reloc/etc/opt/SUNWmd/md.tab
/etc/opt/SUNWmd/md.tab
cp /cdrom/cdrom0/sparc/sparc/SUNWmd/reloc/etc/opt/SUNWmd/mddb.cf
/etc/opt/SUNWmd/mddb.cf
cp /cdrom/cdrom0/sparc/sparc/SUNWmd/reloc/kernel/drv/md.conf
/kernel/drv/md.conf
[ verifying class <preserve> ]
## Executing postinstall script.

Installation of <SUNWmd> was successful.
Processing package instance <SUNWmdg> from </cdrom/cdrom0/sparc>

Solstice DiskSuite Tool
(sparc) 4.1-FCS,REV=6.0
. . . (miscellaneous copyright information) . . .
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    12 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

Do you want to continue with the installation of <SUNWmdg> [y,n,?] y
```

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```
Installing Solstice DiskSuite Tool as <SUNWmdg>
```

```
## Executing preinstall script.  
## Installing part 1 of 1.  
/etc/opt/SUNWmd/SDStool.xpm  
/usr/opt/SUNWmd/lib/X11/app-defaults/Metatool  
/usr/opt/SUNWmd/lib/X11/bitmaps/battery_16.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/battery_32.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/browser_icon.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/browser_icon_mask.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/concat_16.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/concat_16_insens.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/concat_32.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/concat_32_insens.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/concat_drag.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/concat_drag_mask.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/controller_16.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/controller_32.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/diskview_icon.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/diskview_icon_mask.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/drop_none.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/drop_none_mask.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/drop_not_ok.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/drop_not_ok_mask.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/drop_ok.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/drop_ok_mask.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/drop_site_selection.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/editor_icon.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/editor_icon_mask.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/fan_16.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/fan_32.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/fibre_16.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/fibre_32.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/help_icon.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/help_icon_mask.xbm  
/usr/opt/SUNWmd/lib/X11/bitmaps/hsp_16.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/hsp_16_insens.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/hsp_32.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/hsp_32_insens.xpm  
/usr/opt/SUNWmd/lib/X11/bitmaps/hsp_drag.xbm
```

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```
/usr/opt/SUNWmd/lib/X11/bitmaps/hsp_drag_mask.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/lock_16.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/lock_32.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/log_icon.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/log_icon_mask.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/metadb_16.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/metadb_16_insens.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/metadb_32.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/metadb_32_insens.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/metadb_drag.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/metadb_drag_mask.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/mirror_16.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/mirror_16_insens.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/mirror_32.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/mirror_32_insens.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/mirror_drag.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/mirror_drag_mask.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/multi_drag.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/multi_drag_mask.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/perfview_icon.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/perfview_icon_mask.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/raid_16.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/raid_16_insens.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/raid_32.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/raid_32_insens.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/raid_drag.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/raid_drag_mask.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/slice_16.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/slice_16_insens.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/slice_drag.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/slice_drag_mask.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/spundown_16.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/spundown_32.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/trans_16.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/trans_16_insens.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/trans_32.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/trans_32_insens.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/trans_drag.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/trans_drag_mask.xbm
/usr/opt/SUNWmd/lib/X11/bitmaps/wrench_16.xpm
```

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```
/usr/opt/SUNWmd/lib/X11/bitmaps/wrench_32.xpm
/usr/opt/SUNWmd/lib/X11/bitmaps/wrench_8.xpm
/usr/opt/SUNWmd/lib/X11/uid/Metatool/Editor.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/EditorTpl.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/PerfMonWindow.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/concat.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/hsp.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/logs.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/md.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/mirror.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/physicalview.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/popups.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/raid.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/slice.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/slicer.uid
/usr/opt/SUNWmd/lib/X11/uid/Metatool/stripe.uid
/usr/opt/SUNWmd/lib/metatool-toolsmenu
/usr/opt/SUNWmd/locale/C/help/metatool/howto/Howto
/usr/opt/SUNWmd/locale/C/help/metatool/howto/help.h.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/Reference
/usr/opt/SUNWmd/locale/C/help/metatool/reference/catinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/cflog.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/controllerinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/devicestats.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/diskinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/diskview.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/diskview.slicefilters.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/find.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/hspbrower.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/hspfilters.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/hspinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/logtofile.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/mappingselect.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/mdbrower.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/mded.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/mdfilters.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/metadbinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/mirrorinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/phytolog.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/problist.r.hlp
```

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```
/usr/opt/SUNWmd/locale/C/help/metatool/reference/problist.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/raidinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/restore.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/save.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/slicebrowser.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/slicefilters.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/sliceinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/statgraphs.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/stripinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/transinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/reference/trayinfo.r.hlp
/usr/opt/SUNWmd/locale/C/help/metatool/topics/Topics
/usr/opt/SUNWmd/locale/C/help/metatool/topics/glossary.t.hlp
/usr/opt/SUNWmd/man/man1m/metatool.1m
/usr/opt/SUNWmd/man/man4/metatool-toolsmenu.4
/usr/opt/SUNWmd/sbin/metatool
[ verifying class <none> ]
## Executing postinstall script.

Installation of <SUNWmdg> was successful.

Processing package instance <SUNWmdn> from </cdrom/cdrom0/sparc>

Solstice DiskSuite Log Daemon
(sparc) 4.1-FCS,REV=6.0
. . . (miscellaneous copyright information) . . .

Using </> as the package base directory.
## Processing package information.
## Processing system information.
    11 package pathnames are already properly installed.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

Do you want to continue with the installation of <SUNWmdn> [y,n,?] y
```

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```
Installing Solstice DiskSuite Log Daemon as <SUNWmdn>

## Installing part 1 of 1.
/etc/init.d/init.mdlogd
/etc/rc3.d/S25mdlogd <symbolic link>
/usr/opt/SUNWmd/man/man1m/mdlogd.1m
/usr/opt/SUNWmd/sbin/mdlogd
[ verifying class <none> ]
cp /cdrom/cdrom0/sparc/sparc/SUNWmdn/reloc/etc/opt/SUNWmd/mdlogd.cf
/etc/opt/SUNWmd/mdlogd.cf
[ verifying class <preserve> ]

Installation of <SUNWmdn> was successful.

...

Select package(s) you wish to process (or 'all' to process
all packages). (default: all) [?,??,q]: q

*** IMPORTANT NOTICE ***
    This machine must now be rebooted in order to ensure
    sane operation.  Execute
        shutdown -y -i6 -g0
    and wait for the "Console Login:" prompt.
```

Note – You must reboot the system after the packages are installed.



Viewing Installed Packages

You can confirm that the DiskSuite software has been installed by using the `pkginfo` command:

```
demo$ pkginfo
system      SUNWaccr      System Accounting, (Root)
system      SUNWaccu      System Accounting, (Usr)
system      SUNWadmap     System administration applications
system      SUNWadmc     System administration core libraries
system      SUNWadmfw    System & Network Administration Framework
system      SUNWadmnr    System & Network Administration Root
system      SUNWadmsm    Solstice AdminSuite Storage Manager Application
system      SUNWapppr    PPP/IP Asynchronous PPP daemon configuration files
system      SUNWapppu    PPP/IP Asynchronous PPP daemon and PPP login service
system      SUNWarc      Archive Libraries
system      SUNWast      Automated Security Enhancement Tools
system      SUNWbcp      SunOS 4.x Binary Compatibility

. . . (other package information)

system      SUNWmd       Solstice DiskSuite
system      SUNWmdg     Solstice DiskSuite Tool
system      SUNWmdn     Solstice DiskSuite Log Daemon

. . . (other package information)
```



The `-l` option gives detailed information about packages:

```
demo$ pkginfo -l SUNWmd
PKGINST:  SUNWmd
      NAME:  Solstice DiskSuite
      CATEGORY:  system
      ARCH:  sparc
      VERSION:  4.1-FCS,REV=6.0
      BASEDIR:  /
      VENDOR:  SunSoft, a Sun Microsystems, Inc. Business
      DESC:  SunSoft's Solstice DiskSuite
      PSTAMP:  08/12/96-22:41:00
      INSTDATE:  Aug 15 1996 17:25
      VSTOCK:  258-4903-10
      HOTLINE:  Please contact your local service provider
      STATUS:  completely installed
      FILES:
          82 installed pathnames
          19 shared pathnames
          22 directories
          27 executables
          11267 blocks used (approx)
```

Setting the Path Variables

After installing the software, you must set the environment variables `PATH` and `MANPATH`.

The general requirements are as follows:

- Modify your `PATH` variable to include `/usr/opt/SUNWmd/sbin`.

If you do not set this path, you may get other versions of the software.

- Modify your `MANPATH` to include `/usr/opt/SUNWmd/man`.

If you do not set this path, you could get man pages for the wrong release, or no man pages at all.

You can set these paths by using an editor to change your `$HOME/.profile` or `~/ .cshrc` file, as follows.



If you installed into the default directory, then:

- If you're using the Bourne shell, your `$HOME/.profile` file should have lines like this:

```
PATH=/usr/opt/SUNWmd/sbin:$PATH
MANPATH=/usr/opt/SUNWmd/man:$MANPATH
export PATH MANPATH
```

- If you're using the C shell (csh), the `~/ .cshrc` file should have lines that look something like this:

```
set path = (/usr/opt/SUNWmd/sbin $path)
setenv MANPATH /usr/opt/SUNWmd/man:$MANPATH
```

Patches

- SPARCstorage Array: If you are using SPARCstorage Array (SSA) disks, you will need the latest jumbo patch. Refer to your service provider for the latest patch information.
- A STREAM bug is fixed by the Solaris 2.4 patch 102534-01. You must install this patch on your system if you are running Solaris 2.4 and wish to use the `mdlogd` SNMP trap generator. The patch is located on the CD in the `/cdrom/cdrom0/sparc/patches/102534-01` directory.

Removing Packages

If you want to remove a DiskSuite package you can remove the installed files using the `pkgrm` command. For example, to remove the `SUNWmd` package, type the following (as root).

```
# pkgrm SUNWmd
```

Note – Do not remove DiskSuite or AdminSuite files using the `rm` command. Using `pkgrm` is the only valid way to remove these files.



Converting to Solstice DiskSuite 4.1 from Online: DiskSuite

Solstice DiskSuite 4.1 includes utilities to automate the conversion from an earlier version of Online: DiskSuite 2.0.1 and 3.0 to Solstice DiskSuite 4.1. These utilities are UNIX shell scripts, `metacvt(1M)` and `S94SUNWmd.cvt(1M)`.

The format of the metadevice state database replicas in the Solstice DiskSuite 4.0 and 4.1 releases is incompatible with that of previous Online: DiskSuite 2.0.1 and 3.0 releases. Because of this, Solstice DiskSuite 4.1 will not recognize or read database replicas created by any version of Online: DiskSuite. Therefore, you must completely de-install any previous version of Online: DiskSuite before installing Solstice DiskSuite 4.1. The `metacvt(1M)` and `S94SUNWmd.cvt(1M)` scripts automate the conversion process. Refer to the `metacvt(1M)` and `S94SUNWmd.cvt(1M)` man pages for more information.

▼ How to Convert to DiskSuite 4.1

To convert from either Online: DiskSuite 2.0.1 or 3.0 to Solstice DiskSuite 4.1, follow this procedure.

1. Back up all file systems that currently reside on metadevices.

Note that this is only to ensure that no data is lost during the installation process. You will most likely not have to restore your file systems from these backups.

2. Log on to the console as root and change to the `scripts` directory on the installation CD-ROM.

```
# cd /cdrom/cdrom0/scripts
```



3. Start the `metacvt` utility.

```
# ./metacvt -d path
```

In this command,

path Is the path to the packages on the CD-ROM, for example, `/cdrom/cdrom0/sparc`.

4. Follow the onscreen instructions.

You may need to repeat Step 3, depending upon the information that the `metacvt(1M)` command finds in your configuration.

5. To start the actual conversion, type the following.

```
# sh /tmp/S94SUNWmd.cvt
```

During the conversion, the system will reboot several times.

6. After conversion completes, follow the onscreen instructions.

