



APPENDIX **D**

Installing Solaris 10 Version 0708-V01 on Sun Netra T2000

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Overview

This document provides the procedures you must complete to:

- Enable RAID 0 on a Sun Netra T2000 platform
- Install the Solaris 10 (0708) image on a Sun Netra T2000 platform on which you intend to install the Cisco BAMS 3.30 software.



Note

If you wish to run the Cisco Media Gateway Controller (MGC) Node Manager to recognize traps sent from a Cisco BAMS, you must install Cisco BAMS 3.30 Patch 306 with the Solaris 10 (Version 0708-V01) operating system on the Sun Netra T2000 server.



Note

If you configure RAID, you can enhance the performance of Cisco BAMS. However, RAID 0 is optional. If you wish to configure RAID 0, you must configure it before you install the Solaris 10 Jumpstart image.



Caution

When you install Cisco BAMS 3.30, you must also install the most recent patch of the software. If you fail to install the patch, the software might experience a COR failure.

After you successfully install the Solaris 10 image on the Netra T2000 host machine, you can proceed to install the Solaris 10 Environment patches, the Cisco BAMS 3.30 Base Build, and the latest Cisco BAMS 3.30 patch.

This document does not cover installation of Solaris 10 Environment patches, the Cisco BAMS 3.30 Base Build, nor Cisco BAMS 3.30 patches. See the following documents for installation instructions:

- Solaris 10 Environment Patch—*Cisco Media Gateway Controller Software Installation and Configuration (Release 9.7)*, [Chapter 2, Installing the Sun Solaris 10 Operating System \(Loading the Sun Solaris 10 Operating Environment\)](#)

**Note**

If you enable RAID 0 on the Sun Netra T2000 platform, do not install the Sun environment patch CSCOh027

- BAMS 3.30 Base Build installation—Cisco Billing and Measurements Server User's Guide, Release 3.30, [Chapter 2, “Setup and Installation.”](#)
- BAMS 3.30 Patches download—<http://www.cisco.com/cgi-bin/swsrch/SWSearch.cgi>

Hardware Compatibility

The Sun Solaris 10 operating system (Version 0708-V01) referred to in this appendix is intended to run on a Sun Netra T2000 platform.

**Caution**

To run the Solaris operating system successfully, without errors, the Sun Netra T2000 must run the required version of the firmware, which is 6.7.0, OBP 4.30.0. If the currently installed firmware is an older version, you must upgrade the firmware to the required version. The required version is included in Sun Netra T2000 Patch 139436-01. You must also install Patch 137141-01.

Checking the Installed Version of Firmware

The following two sample commands show how to check the currently installed version of the firmware on a Sun Netra T2000 server.

Example 1

```
# prtconf -v
OBP 4.30.0 2008/12/11 12:16
```

Example 2

```
#.
sc> showhost
System Firmware 6.7.0 Netra[TM] T2000 2008/12/11 14:56

Host flash versions:
  OBP 4.30.0 2008/12/11 12:16
  Hypervisor 1.7.0 2008/12/11 13:43
  Netra[TM] T2000 POST 4.30.0 2008/12/11 12:46

sc> console
```

Installing Patch 137141-01

After you install the Sun operating system, you must download the patch from <http://www.sunsolve.sun.com/> and place it in the path `/var/spool/patch/`.

Install the required patch by issuing the following command.

```
patchadd /var/spool/patch/137141-01
```

Precautions

This section presents precautions you should consider before you perform any of the following installation procedures. When you begin to perform one of the installation procedures, you cannot back out.

- Upgrading an existing Cisco BAMS 3.30 installation to a new Sun Netra T2000 host machine—
 - See the Cisco BAMS 3.30 upgrade procedure in [Appendix B, “Upgrading to BAMS Release 3.30,”](#) *Cisco Billing and Measurements Server User's Guide, Release 3.30*
 - Cisco recommends that you perform a full backup before you perform an upgrade procedure. See [Appendix C, “Backing up and Restoring BAMS,”](#) *Cisco Billing and Measurements Server User's Guide, Release 3.30*

**Caution**

Do not perform the installation procedures provided in this appendix while the host machine is processing live traffic. If you attempt to install a new operating system, you will delete all existing software and data from the machine. If you have questions, contact Cisco TAC.

- New Solaris jumpstart installation—If you are performing a new installation, you need not complete a backup of an operating system installation. You can proceed to configure RAID 0 and then the operating system installation.

**Note**

To perform the procedures in this appendix, you should be experienced in basic UNIX commands.

Prerequisite Checklist

Before you start the procedures in this appendix, complete the tasks listed in the following checklist.

1. Ensure that the Cisco BAMS 3.30 hardware components are installed according to the manufacturer's recommendations.
2. Verify that you have the correct CD.
3. If required, perform a data backup if the machine was running the Cisco BAMS 3.30 software prior to this operating system installation/upgrade.
4. Complete the following tasks for a new operating system installation only (that is, not for an operating system upgrade):
 - a. Ensure that you have a Network Installation Data Sheet (NIDS) provided by Cisco. This will contain the following information necessary to place the jumpstarted Cisco BAMS on the network after the CD installation.
 - nodename
 - hosts
 - netmasks
 - hostname.<primary interface>
 - Default Gateway IP address
5. Set up a console port through which you can perform the jumpstart/upgrade procedure.

RAID 0 Setup (Optional)

RAID 0 enables you to construct a logical volume made up of 2 or more physical disks, to increase Cisco BAMS performance. The Sun Netra T2000 server's on-board disk controller supports both RAID 0 and RAID 1 volumes.

You configure a RAID 0 volume on Netra T2000 by initializing the volume across 2 or 4 physical disks. This means that the Cisco BAMS billing, measurements, and intermediate files data is written across each physical disk in turn or striping the files across the disks. Configuring a RAID 0 volume improves the performance of Cisco BAMS but it does not provide redundancy. Therefore, you incur an increased risk of data loss. If a single disk fails, the entire volume fails and you must delete the volume and reconstruct it.



Caution

To minimize data loss, if you enable RAID 0, you must configure Cisco BAMS in redundant mode.

Cisco recommends enabling RAID 0 only when the Cisco BAMS is connected to a Cisco PGW2200 Softswitch that is running a high volume of calls per second, which requires improved performance.

All disks in a RAID 0 volume must be the same size.

For a Cisco BAMS that is in service and running on a Sun Netra T2000 without RAID, if you re-install the server with RAID 0, all data and the operating system will be deleted. Therefore, before you attempt to re-install the server with RAID 0, first you must backup all data and transfer files to another server.

Setting Up a RAID 0 Volume

To set up RAID 0, complete the following steps.

-
- Step 1** Connect to the Cisco BAMS through a console port.
 - Step 2** Load the appropriate version of the CD-ROM labeled Cisco Solaris 10 Operating Software Startup Disk for Sparc-based Platforms into the CD-ROM drive.
 - Step 3** If the system is currently running, log in as root.
 - Step 4** Use the **halt** command or **init 0** command to instruct the Netra T2000 to return the OK prompt.

halt

```
Oct 28 00:13:40 sh-netra-T2000 halt: halted by root
Oct 28 00:13:41 sh-netra-T2000 syslogd: going down on signal 15
SNMP Research DR-Web EMANATE Agent Version 16.1.0.44
Copyright 1989-2005 SNMP Research, Inc.
syncing file systems... done
Program terminated
```

- Step 5** At the OK prompt, boot to single user mode with the Solaris 10 jumpstart image CD inserted in the disk drive.

ok **boot cdrom -s**

Text similar to the following is displayed.

```
SC Alert: Host System has Reset

SC Alert: CRITICAL ALARM is set
```

```

Netra T2000, No Keyboard
Copyright 2008 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.28.6, 16256 MB memory available, Serial #76865034.
Ethernet address 0:14:4f:94:de:a, Host ID: 8494de0a.

Boot device: /pci@7c0/pci@0/pci@1/pci@0/ide@8/cdrom@0,0:f File and args: -s
SunOS Release 5.10 Version Generic_120011-14 64-bit
Copyright 1983-2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Booting to milestone "milestone/single-user:default".
Configuring devices.
Using RPC Bootparams for network configuration information.
Attempting to configure interface e1000g3...
Skipped interface e1000g3
Attempting to configure interface e1000g2...
Skipped interface e1000g2
Attempting to configure interface e1000g1...
Skipped interface e1000g1
Attempting to configure interface e1000g0...
Configured interface e1000g0
Requesting System Maintenance Mode
SINGLE USER MODE
#

```

Step 6 When the boot process completes, issue the **raidctl** command to display the installed hard disks (in this example, disk 0.1.0 and 0.3.0).

```

# raidctl

Controller: 0
Disk: 0.1.0
Disk: 0.3.0

```

Step 7 Create the RAID 0 volume with the two disks identified in Step 6.



Note

Ensure that there is no useful data on the disk because all data will be lost.

```

# raidctl -C "0.1.0 0.3.0" -r 0 0
Creating RAID volume will destroy all data on spare space of member disks, proceed
(yes/no)? yes
/pci@780/pci@0/pci@9/scsi@0 (mpt0):
    Physical disk 0 created.
/pci@780/pci@0/pci@9/scsi@0 (mpt0):
    Physical disk 1 created.
/pci@780/pci@0/pci@9/scsi@0 (mpt0):
    Volume 1 created.
/pci@780/pci@0/pci@9/scsi@0 (mpt0):
    Volume 1 is |enabled||optimal|
/pci@780/pci@0/pci@9/scsi@0 (mpt0):
    Volume 1 is |enabled||optimal|
Volume c0t1d0 is created successfully!
Volume          Size  Stripe  Status  Cache  RAID
      Sub              Size      Size      Level
-----
c0t1d0          N/A    64K    OPTIMAL  OFF    RAID0
              0.1.0  N/A      GOOD
              0.3.0  N/A      GOOD

```

Step 8 Issue the command **raidctl -l** to display the RAID configuration. The information displayed in the following example shows that the preceding command created RAID volume c0t1d0.

```
# raidctl -l
Controller: 0
  Volume:c0t1d0
  Disk: 0.1.0
  Disk: 0.3.0
```

To display RAID status, you need to include the name of the RAID volume in **raidctl -l** command

```
# raidctl -l c0t1d0
Volume          Size   Stripe  Status  Cache  RAID
   Sub          Disk   Size    Status  Cache  Level
-----
c0t1d0          273.3G 64K     OPTIMAL N/A    RAID0
                0.3.0 136.6G      GOOD
                0.1.0 136.6G      GOOD
```

**Note**

The data displayed in this example indicates that the status of RAID volume c0t1d0 is good.

Step 9 To label the RAID volume after you have set it up, start the **format** utility and select the disk name that represents the configured RAID volume.

**Note**

Ignore warnings returned to the **format** utility that indicate the existence of a single disk only, which is the RAID volume.

```
# format

Searching for disks...done

AVAILABLE DISK SELECTIONS:
  0. c0t1d0 <SUN146G cyl 14087 alt 2 hd 24 sec 848>
     /pci@780/pci@0/pci@9/scsi@0/sd@1,0
Specify disk (enter its number): 0
selecting c0t1d0
[disk formatted]

FORMAT MENU:
disk          - select a disk
type          - select (define) a disk type
partition    - select (define) a partition table
current      - describe the current disk
format       - format and analyze the disk
repair       - repair a defective sector
label        - write label to the disk
analyze      - surface analysis
defect       - defect list management
backup       - search for backup labels
verify       - read and display labels
save         - save new disk/partition definitions
inquiry      - show vendor, product and revision
volname      - set 8-character volume name
!<cmd>      - execute <cmd>, then return
quit
```

Step 10 Issue the **type** command at the `format>` prompt. Select 0 to autoconfigure the volume.

```
format> type

AVAILABLE DRIVE TYPES:
  0. Auto configure
  1. Quantum ProDrive 80S
  2. Quantum ProDrive 105S
  3. CDC Wren IV 94171-344
  4. SUN0104
  5. SUN0207
  6. SUN0327
  7. SUN0340
  8. SUN0424
  9. SUN0535
 10. SUN0669
 11. SUN1.0G
 12. SUN1.05
 13. SUN1.3G
 14. SUN2.1G
 15. SUN2.9G
 16. Zip 100
 17. Zip 250
 18. Peerless 10GB
 19. SUN146G
 20. other

Specify disk type (enter its number)[19]: 0
c0t1d0: configured with capacity of 272.99GB
<LSILOGIC-LogicalVolume-3000 cyl 65533 alt 2 hd 32 sec 273>
selecting c0t1d0
[disk formatted]
```

Step 11 Issue the **label** command to write the new label to the disk.

```
format> label
Ready to label disk, continue? yes
```

Step 12 To verify that the new label has been written, issue the **disk** command, which prints the disk list.

```
format> disk

AVAILABLE DISK SELECTIONS:
  0. c0t1d0 <LSILOGIC-LogicalVolume-3000 cyl 65533 alt 2 hd 32 sec 273>
    /pci@780/pci@0/pci@9/scsi@0/sd@1,0
Specify disk (enter its number)[0]: 0
selecting c0t1d0
[disk formatted]
format>
```



Note The information displayed in this example indicates that the disk `c0t2d0` has the type `LSILOGIC-LogicalVolume`.

Step 13 Exit the **format** utility.

The RAID volume is now ready for installation of the Solaris 10 Jumpstart image.

Step 14 Issue the command **init 0** to generate the Ok prompt.

Deleting a RAID Volume

You can use the procedure in this section to delete a RAID volume when it is not required. When you delete a RAID volume, all data on the disks is lost and you must re-install the Solaris 10 operating system. If your Cisco BAMS is in service and running on a Sun Netra T2000 server, perform a data backup and transfer the files to another server before you delete the RAID volume.

Step 1 Connect to the Cisco BAMS through a console port.

Step 2 Load the appropriate version of the CD-ROM labeled “Cisco Solaris 10 Operating Software Startup Disk for Sparc-based Platforms” into the CD-ROM drive.

Step 3 If the system is currently running, log in as root.

Issue the **halt** command or **init 0** command to instruct the Sun Netra T2000 to generate the OK prompt.

```
# halt
```

```
Oct 28 00:13:40 sh-netra-T2000 halt: halted by root
Oct 28 00:13:41 sh-netra-T2000 syslogd: going down on signal 15
SNMP Research DR-Web EMANATE Agent Version 16.1.0.44
Copyright 1989-2005 SNMP Research, Inc.
syncing file systems... done
Program terminated
```

Step 4 At the OK prompt, boot to single user mode with the Solaris 10 jumpstart image CD inserted in the disk drive.

```
ok boot cdrom -s
```

```
SC Alert: Host System has Reset
```

```
SC Alert: CRITICAL ALARM is set
|
```

```
Netra T2000, No Keyboard
Copyright 2008 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.28.6, 16256 MB memory available, Serial #76865034.
Ethernet address 0:14:4f:94:de:a, Host ID: 8494de0a.
```

```
Boot device: /pci@7c0/pci@0/pci@1/pci@0/ide@8/cdrom@0,0:f File and args: -s
SunOS Release 5.10 Version Generic_120011-14 64-bit
Copyright 1983-2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Booting to milestone "milestone/single-user:default".
Configuring devices.
Using RPC Bootparams for network configuration information.
Attempting to configure interface e1000g3...
Skipped interface e1000g3
Attempting to configure interface e1000g2...
Skipped interface e1000g2
Attempting to configure interface e1000g1...
Skipped interface e1000g1
Attempting to configure interface e1000g0...
Configured interface e1000g0
Requesting System Maintenance Mode
SINGLE USER MODE
```


#

- Step 5** When the boot completes, enter the command **raidctl** to display the configured RAID volume (in this example, the system displays the volume c0t1d0).

```
# raidctl
Controller: 0
      Volume:c0t1d0
      Disk: 0.1.0
      Disk: 0.3.0
```

- Step 6** Delete RAID Volume c0t1d0 by issuing the command **raidctl -d cot1d0**.

**Note**

Ensure that there is no useful data on the disk because all data will be lost.

```
# raidctl -d c0t1d0
Deleting RAID volume c0t1d0 will destroy all data it contains; proceed (yes/no)? yes
/pci@780/pci@0/pci@9/scsi@0 (mpt0):
      Volume 1 deleted.
/pci@780/pci@0/pci@9/scsi@0 (mpt0):
      Physical disk 0 deleted.
/pci@780/pci@0/pci@9/scsi@0 (mpt0):
      Physical disk 1 deleted.
WARNING: /pci@780/pci@0/pci@9/scsi@0/sd@3,0 (sd5):
      Corrupt label; wrong magic number

Volume c0t1d0 is deleted successfully!
```

- Step 7** Issue the command **raidctl** to verify that the volume was deleted.

```
# raidctl
Controller: 0
Disk: 0.1.0
Disk: 0.3.0
```

- Step 8** Issue the command **init 0** to derive the OK prompt and restart the operating system installation.

```
# init 0
# syncing file systems... done
Program terminated
Ok
```

**Note**

If you encounter the error message “Configuration over device node failed when deleting 2nd volume,” issue the command **devfsadm** to access the second disk.

- Step 9** Perform Steps 8–13 in the section “[Setting Up a RAID 0 Volume](#)” to complete labeling the disks and to continue with the installation
-

New Solaris 10 Installation

After you setup RAID 0 (optional) successfully, complete the following steps to install the Solaris 10 jumpstart image.

- Step 1** Connect to the Cisco BAMS through a console port.
- Step 2** Load the appropriate version of the CD-ROM labeled “Cisco Solaris 10 Operating Software Startup Disk for Sparc-based Platforms” into the CD-ROM drive.
- Step 3** If the system is currently running, log in as root. Instruct the system to generate the ok prompt by issuing the command **init 0**.

```
# init 0
```

- Step 4** Boot the system from the CD-ROM drive by entering the appropriate command

```
ok boot cdrom - install
```

The system displays text similar to the following:

```
SC Alert: Host System has Reset

SC Alert: CRITICAL ALARM is set
\
Netra T2000, No Keyboard
Copyright 2008 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.28.6, 16256 MB memory available, Serial #76865034.
Ethernet address 0:14:4f:94:de:a, Host ID: 8494de0a.

Boot device: /pci@7c0/pci@0/pci@1/pci@0/ide@8/cdrom@0,0:f File and args: - install
SunOS Release 5.10 Version Generic_120011-14 64-bit
Copyright 1983-2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Configuring devices.
Using RPC Bootparams for network configuration information.
Attempting to configure interface e1000g3...
Skipped interface e1000g3
Attempting to configure interface e1000g2...
Skipped interface e1000g2
Attempting to configure interface e1000g1...
Skipped interface e1000g1
Attempting to configure interface e1000g0...
Configured interface e1000g0
Setting up Java. Please wait...
Beginning system identification...
Searching for configuration file(s)...
Search complete.
Discovering additional network configuration...
Completing system identification...
Starting remote procedure call (RPC) services: done.
System identification complete.
Starting Solaris installation program...
Searching for JumpStart directory...
<<< using cdrom install_config >>>
Checking rules.ok file...
Using profile: any_machine
Using finish script: any_finish
Executing JumpStart preinstall phase...
Searching for SolStart directory...
Checking rules.ok file...
Using begin script: install_begin
Using finish script: patch_finish
Executing SolStart preinstall phase...
Executing begin script "install_begin"...
Begin script install_begin execution completed.

Processing profile
```

```
- Selecting cluster (SUNWCrnet)
- Selecting package (SUNWadmfw)
- Selecting package (SUNWcpc)
- Selecting package (SUNWcpcu)
- Selecting package (SUNWcstl)
- Selecting package (SUNWless)
- Selecting package (SUNWlucfg)
- Selecting package (SUNWlur)
- Selecting package (SUNWluu)
- Selecting package (SUNWmkcd)
- Selecting package (SUNWmipu)
- Selecting package (SUNWmipr)
- Selecting package (SUNWocf)
- Selecting package (SUNWocfr)
- Selecting package (SUNWspnego)
- Selecting package (SUNWter)
- Selecting package (SUNWtnfc)
- Selecting package (SUNWucbt)
- Selecting package (SUNWvld)
- Selecting package (SUNWvldu)
- Selecting package (SUNWzsh)
- Selecting package (SUNWsacom)
- Selecting package (SUNWxwdv)
- Selecting package (SUNWctpls)
- Selecting package (SUNWgssdh)
- Selecting package (SUNWm64cf)
- Selecting package (SUNWj5rt)
- Selecting package (SUNWxwplt)
- Selecting package (SUNWxwplr)
- Selecting package (SUNWdtcor)
- Selecting package (SUNWxwice)
- Selecting package (SUNWxwrtl)
- Selecting package (SUNWxwfnt)
- Selecting package (SUNWlibC)
- Selecting package (SUNWmfrun)
- Selecting package (SUNWi15rf)
- Selecting package (SUNWadmfr)
- Selecting package (SUNWrsg)
- Selecting package (SUNWsadmi)
- Selecting package (SUNWsasnm)
- Selecting package (SUNWmibii)
- Selecting package (SUNWxi18n)
- Selecting package (SUNWtoo)
- Selecting package (SUNWsprot)
- Selecting package (SUNWbip)
- Selecting package (SUNWbind)
- Selecting package (SUNWbindr)
- Selecting package (SUNWgzip)
- Selecting package (SUNWzip)
- Selecting package (SUNWbash)
- Selecting package (SUNWtcsh)
- Selecting package (SUNWgss)
- Selecting package (SUNWgssc)
- Selecting package (SUNWgssk)
- Selecting package (SUNWqos)
- Selecting package (SUNWqosu)
- Selecting package (SUNWmdb)
- Selecting package (SUNWmdbr)
- Selecting package (SUNWmdbdm)
- Selecting package (SUNWnfsckr)
- Selecting package (SUNWnfschr)
- Selecting package (SUNWnfsclu)
- Selecting package (SUNWifp)
- Selecting package (SUNWged)
```

- Selecting package (SUNW1394)
- Selecting package (SUNWqfed)
- Selecting package (SUNWaccr)
- Selecting package (SUNWaccu)
- Selecting package (SUNWus)
- Selecting package (SUNWrsqk)
- Selecting package (SUNWzebrar)
- Selecting package (SUNWzebrau)
- Selecting package (SUNWeurf)
- Selecting package (SUNWgcmn)
- Selecting package (SUNWuodf)
- Selecting package (SUNWxwacx)
- Selecting package (SUNWpoolr)
- Selecting package (SUNWpool)
- Selecting package (SUNWluzone)
- Selecting package (SUNWzoner)
- Selecting package (SUNWzoneu)
- Selecting package (SUNWbtool)
- Selecting package (SUNWdtrc)
- Selecting package (SUNWdtrp)
- Selecting package (SUNWfss)
- Selecting package (SUNWinst)
- Selecting package (SUNWipc)
- Selecting package (SUNWqus)
- Selecting package (SUNWqusu)
- Selecting package (SUNWrcmdc)
- Selecting package (SUNWtdmr)
- Selecting package (SUNWtltk)
- Selecting package (SUNWtnetc)
- Selecting package (SUNWtnfd)
- Selecting package (SUNWtnetd)
- Selecting package (SUNWtnetr)
- Selecting package (SUNWsshcu)
- Selecting package (SUNWsshdr)
- Selecting package (SUNWsshdu)
- Selecting package (SUNWsshr)
- Selecting package (SUNWsshu)
- Selecting package (SUNWatfsr)
- Selecting package (SUNWatfsu)
- Selecting package (SUNWrcmdr)
- Selecting package (SUNWrcmds)
- Selecting package (SUNWxcu4)
- Selecting package (SUNWglmr)
- Selecting package (SUNWi2cr)
- Selecting package (SUNWpstl)
- Selecting package (SUNWbart)
- Selecting package (SUNWpiclu)
- Selecting package (SUNWpiclr)
- Selecting package (SUNWopensslr)
- Selecting package (SUNWopenssl-commands)
- Selecting all disks
- Configuring boot device
- Using disk (c0t1d0) for "rootdisk"
- Configuring / (c0t1d0s0)
- Configuring /var (c0t1d0s1)
- Configuring swap (c0t1d0s3)
- Configuring (c0t1d0s4)
- Configuring (c0t1d0s6)
- Configuring /opt (c0t1d0s5)

Verifying disk configuration

Verifying space allocation

- Total software size: 396.45 Mbytes

Preparing system for Solaris install

Configuring disk (c0t1d0)

- Creating Solaris disk label (VTOC)

Creating and checking UFS file systems

- Creating / (c0t1d0s0)
- Creating /var (c0t1d0s1)
- Creating /opt (c0t1d0s5)

Beginning Solaris software installation

Starting software installation

SUNWlucfg.....done.	396.37	Mbytes	remaining.
SUNWcsu.....done.	381.64	Mbytes	remaining.
SUNWcsr.....done.	377.45	Mbytes	remaining.
SUNWcsl.....done.	363.40	Mbytes	remaining.
SUNWcnetr.....done.	363.34	Mbytes	remaining.
SUNWkvm200.v.....done.	363.16	Mbytes	remaining.
SUNWkvm.v.....done.	362.64	Mbytes	remaining.
SUNWcart200.v.....done.	362.55	Mbytes	remaining.
SUNWcar.v.....done.	362.46	Mbytes	remaining.
SUNWcakrnt2000.v.....done.	362.41	Mbytes	remaining.
SUNWcakr.v.....done.	354.15	Mbytes	remaining.
SUNWckr.....done.	342.16	Mbytes	remaining.
SUNWcsd.....done.	341.89	Mbytes	remaining.
SUNWpr.....done.	340.81	Mbytes	remaining.
SUNWtls.....done.	332.14	Mbytes	remaining.
SUNWxwrtl.....done.	331.97	Mbytes	remaining.
SUNWxwice.....done.	331.69	Mbytes	remaining.
SUNWzlib.....done.	331.32	Mbytes	remaining.
SUNWbzip.....done.	331.05	Mbytes	remaining.
SUNWlibmsr.....done.	327.77	Mbytes	remaining.
SUNWlibms.....done.	327.73	Mbytes	remaining.
SUNWxwfmt.....done.	316.02	Mbytes	remaining.
SUNWxwdv.....done.	315.97	Mbytes	remaining.
SUNWxwplr.....done.	315.91	Mbytes	remaining.
SUNWperl584core.....done.	310.46	Mbytes	remaining.
SUNWperl584usr.....done.	289.32	Mbytes	remaining.
SUNWesu.....done.	287.36	Mbytes	remaining.
SUNWcpp.....done.	287.25	Mbytes	remaining.
SUNWdtcor.....done.	287.22	Mbytes	remaining.
SUNWxwplt.....done.	264.79	Mbytes	remaining.
SUNWlibC.....done.	259.03	Mbytes	remaining.
SUNWctpls.....done.	258.95	Mbytes	remaining.
SUNWmfrun.....done.	248.86	Mbytes	remaining.
SUNWj5rt.....done.	165.44	Mbytes	remaining.
SUNWlexpt.....done.	164.86	Mbytes	remaining.
SUNWlxml.....done.	160.73	Mbytes	remaining.
SUNWkrbr.....done.	160.64	Mbytes	remaining.
SUNWkrbu.....done.	158.07	Mbytes	remaining.
SUNWgssc.....done.	158.01	Mbytes	remaining.
SUNWgss.....done.	157.63	Mbytes	remaining.
SUNWgcmn.....done.	157.60	Mbytes	remaining.
SUNWtdmr.....done.	157.49	Mbytes	remaining.
SUNWtltk.....done.	154.43	Mbytes	remaining.
SUNWtnetc.....done.	154.26	Mbytes	remaining.
SUNWtnetd.....done.	154.17	Mbytes	remaining.
SUNWtnetr.....done.	154.12	Mbytes	remaining.
SUNWtnfc.....done.	153.55	Mbytes	remaining.
SUNWtnfd.....done.	153.46	Mbytes	remaining.
SUNWtoo.....done.	152.34	Mbytes	remaining.
SUNWaudd.....done.	151.67	Mbytes	remaining.

```

SUNWusb.....done. 150.19 Mbytes remaining.
SUNWusbs.....done. 150.10 Mbytes remaining.
SUNWuacm.....done. 150.03 Mbytes remaining.
SUNWucbt.....done. 150.00 Mbytes remaining.
SUNWudaplr.....done. 149.98 Mbytes remaining.
SUNWudaplu.....done. 149.72 Mbytes remaining.
SUNWwib.....done. 148.00 Mbytes remaining.
SUNWipoib.....done. 147.86 Mbytes remaining.
SUNWtavor.....done. 147.06 Mbytes remaining.
SUNWudapltu.....done. 146.59 Mbytes remaining.
SUNWudapltr.....done. 146.34 Mbytes remaining.
SUNWuedg.....done. 146.16 Mbytes remaining.
SUNWugen.....done. 146.09 Mbytes remaining.
SUNWuksp.....done. 145.99 Mbytes remaining.
SUNWukspfw.....done. 145.94 Mbytes remaining.
SUNWopenssl-libraries.....done. 138.92 Mbytes remaining.
SUNWwbsup.....done. 138.56 Mbytes remaining.
SUNWinstall-patch-utils-root.....done. 138.52 Mbytes remaining.
SUNWpkgcmdsr.....done. 138.48 Mbytes remaining.
SUNWproduct-registry-root.....done. 138.46 Mbytes remaining.
SUNWwsr2.....done. 138.12 Mbytes remaining.
SUNWpkgcmdsu.....done. 135.12 Mbytes remaining.
SUNWswmt.....done. 134.35 Mbytes remaining.
SUNWuprl.....done. 134.26 Mbytes remaining.
SUNWgzip.....done. 134.16 Mbytes remaining.
SUNWocfr.....done. 134.09 Mbytes remaining.
SUNWocf.....done. 133.51 Mbytes remaining.
SUNWxil8n.....done. 132.51 Mbytes remaining.
SUNWvld.....done. 132.46 Mbytes remaining.
SUNWxge.....done. 131.87 Mbytes remaining.
SUNWvldu.....done. 131.81 Mbytes remaining.
SUNWnfscckr.....done. 130.38 Mbytes remaining.
SUNWgssk.....done. 130.13 Mbytes remaining.
SUNWrsgk.....done. 130.05 Mbytes remaining.
SUNWnfscr.....done. 129.90 Mbytes remaining.
SUNWnfscu.....done. 129.33 Mbytes remaining.
SUNWeurf.....done. 125.03 Mbytes remaining.
SUNWi15rf.....done. 124.89 Mbytes remaining.
SUNWmdr.....done. 122.44 Mbytes remaining.
SUNWmdu.....done. 121.72 Mbytes remaining.
SUNWadmcc.....done. 119.58 Mbytes remaining.
SUNWadmfr.....done. 119.56 Mbytes remaining.
SUNWadmfw.....done. 118.85 Mbytes remaining.
SUNWadmlib-sysid.....done. 118.59 Mbytes remaining.
SUNWadmrr.....done. 118.50 Mbytes remaining.
SUNWadmap.....done. 117.57 Mbytes remaining.
SUNWlur.....done. 116.24 Mbytes remaining.
SUNWluu.....done. 115.00 Mbytes remaining.
SUNWbip.....done. 114.82 Mbytes remaining.
SUNWrcmcc.....done. 113.92 Mbytes remaining.
SUNWrcmccs.....done. 113.62 Mbytes remaining.
SUNWxwacx.....done. 113.44 Mbytes remaining.
SUNWzfskr.....done. 112.51 Mbytes remaining.
SUNWzfsr.....done. 111.30 Mbytes remaining.
SUNWsmapi.....done. 110.62 Mbytes remaining.
SUNWzfsu.....done. 108.96 Mbytes remaining.
SUNWxcu4.....done. 107.74 Mbytes remaining.
SUNWsprt.....done. 106.22 Mbytes remaining.
SUNWcslr.....done. 89.74 Mbytes remaining.
SUNWrsg.....done. 89.61 Mbytes remaining.
SUNWgssdh.....done. 89.29 Mbytes remaining.
SUNWidnl.....done. 88.73 Mbytes remaining.
SUNWluxop.....done. 87.97 Mbytes remaining.
SUNWses.....done. 87.87 Mbytes remaining.

```

SUNWssad.....done.	87.54	Mbytes	remaining.
SUNwifp.....done.	87.26	Mbytes	remaining.
SUNWinst.....done.	86.77	Mbytes	remaining.
SUNWintgige.....done.	86.43	Mbytes	remaining.
SUNWipc.....done.	86.38	Mbytes	remaining.
SUNWipfr.....done.	86.31	Mbytes	remaining.
SUNWipfu.....done.	85.03	Mbytes	remaining.
SUNwnisr.....done.	84.89	Mbytes	remaining.
SUNwnisu.....done.	82.52	Mbytes	remaining.
SUNWzebrar.....done.	82.37	Mbytes	remaining.
SUNWzebrau.....done.	77.22	Mbytes	remaining.
SUNWzip.....done.	77.03	Mbytes	remaining.
SUNWzoner.....done.	76.97	Mbytes	remaining.
SUNWluzone.....done.	76.82	Mbytes	remaining.
SUNWpoolr.....done.	76.76	Mbytes	remaining.
SUNWpool.....done.	75.91	Mbytes	remaining.
SUNWtecla.....done.	75.28	Mbytes	remaining.
SUNWzoneu.....done.	74.26	Mbytes	remaining.
SUNWzsh.....done.	71.13	Mbytes	remaining.
SUNwiscsir.....done.	70.42	Mbytes	remaining.
SUNwiscsiu.....done.	69.86	Mbytes	remaining.
SUNWloc.....done.	69.35	Mbytes	remaining.
SUNWcpcu.....done.	68.75	Mbytes	remaining.
SUNWfmdr.....done.	68.69	Mbytes	remaining.
SUNWfmd.....done.	63.22	Mbytes	remaining.
SUNWmdb.....done.	57.60	Mbytes	remaining.
SUNWmdbr.....done.	54.46	Mbytes	remaining.
SUNWpiclu.....done.	50.41	Mbytes	remaining.
SUNWl394.....done.	49.63	Mbytes	remaining.
SUNWbash.....done.	48.90	Mbytes	remaining.
SUNWaccr.....done.	48.81	Mbytes	remaining.
SUNWaccu.....done.	48.43	Mbytes	remaining.
SUNWced.v.....done.	47.76	Mbytes	remaining.
SUNWcpc.v.....done.	47.68	Mbytes	remaining.
SUNWlop.v.....done.	47.37	Mbytes	remaining.
SUNWbtool.....done.	46.02	Mbytes	remaining.
SUNWldomr.v.....done.	45.06	Mbytes	remaining.
SUNWldomu.v.....done.	44.94	Mbytes	remaining.
SUNWn2cp.v.....done.	44.77	Mbytes	remaining.
SUNWniumx.v.....done.	44.71	Mbytes	remaining.
SUNWnxge.v.....done.	43.99	Mbytes	remaining.
SUNWust1.v.....done.	43.85	Mbytes	remaining.
SUNWust2.v.....done.	43.74	Mbytes	remaining.
SUNWatfsr.....done.	43.67	Mbytes	remaining.
SUNWatfsu.....done.	43.38	Mbytes	remaining.
SUNWbart.....done.	43.32	Mbytes	remaining.
SUNWbindr.....done.	43.25	Mbytes	remaining.
SUNWbind.....done.	39.67	Mbytes	remaining.
SUNWdtrc.....done.	34.37	Mbytes	remaining.
SUNWcfcl.....done.	34.23	Mbytes	remaining.
SUNWcfclr.....done.	34.21	Mbytes	remaining.
SUNWcfpl.....done.	33.83	Mbytes	remaining.
SUNWcfplr.....done.	33.78	Mbytes	remaining.
SUNWchxge.....done.	33.54	Mbytes	remaining.
SUNWjfca.....done.	32.70	Mbytes	remaining.
SUNWjfcau.....done.	32.61	Mbytes	remaining.
SUNWcry.....done.	30.98	Mbytes	remaining.
SUNWcryr.....done.	30.54	Mbytes	remaining.
SUNWcstl.....done.	30.39	Mbytes	remaining.
SUNWjss.....done.	26.03	Mbytes	remaining.
SUNWkey.....done.	25.62	Mbytes	remaining.
SUNWless.....done.	25.45	Mbytes	remaining.
SUNWlibsasl.....done.	24.86	Mbytes	remaining.
SUNWlldap.....done.	24.66	Mbytes	remaining.

```

SUNWdtrp.....done. 24.16 Mbytes remaining.
SUNWluxopr.....done. 23.48 Mbytes remaining.
SUNWefcl.....done. 22.78 Mbytes remaining.
SUNWefcr.....done. 22.73 Mbytes remaining.
SUNWefcu.....done. 22.68 Mbytes remaining.
SUNWfctl.....done. 22.22 Mbytes remaining.
SUNWemlxs.....done. 18.07 Mbytes remaining.
SUNWemlxu.....done. 17.29 Mbytes remaining.
SUNWerid.....done. 17.11 Mbytes remaining.
SUNWuodf.....done. 16.99 Mbytes remaining.
SUNWm64cf.....done. 16.93 Mbytes remaining.
SUNWfcprt.....done. 16.86 Mbytes remaining.
SUNWmdbdm.....done. 16.81 Mbytes remaining.
SUNWfchbar.....done. 16.78 Mbytes remaining.
SUNWfchba.....done. 15.19 Mbytes remaining.
SUNWfcip.....done. 14.99 Mbytes remaining.
SUNWfcmdb.....done. 14.78 Mbytes remaining.
SUNWfcp.....done. 14.48 Mbytes remaining.
SUNWmibii.....done. 14.35 Mbytes remaining.
SUNWsasnm.....done. 13.47 Mbytes remaining.
SUNWsadmi.....done. 12.47 Mbytes remaining.
SUNWsacom.....done. 12.15 Mbytes remaining.
SUNWmipr.....done. 12.06 Mbytes remaining.
SUNWmipu.....done. 11.78 Mbytes remaining.
SUNWmkcd.....done. 10.48 Mbytes remaining.
SUNWfcsm.....done. 10.33 Mbytes remaining.
SUNWfss.....done. 10.22 Mbytes remaining.
SUNWmpapir.....done. 10.09 Mbytes remaining.
SUNWmpapi.....done. 9.98 Mbytes remaining.
SUNWmpathadm.....done. 9.89 Mbytes remaining.
SUNWmpathadmr.....done. 9.85 Mbytes remaining.
SUNWmpsvplr.....done. 9.00 Mbytes remaining.
SUNWged.....done. 8.75 Mbytes remaining.
SUNWopenssl-commands.....done. 8.37 Mbytes remaining.
SUNWopensslr.....done. 8.32 Mbytes remaining.
SUNWpd.....done. 7.61 Mbytes remaining.
SUNWpiclr.....done. 7.58 Mbytes remaining.
SUNWqos.....done. 7.36 Mbytes remaining.
SUNWqfed.....done. 7.14 Mbytes remaining.
SUNWqlc.....done. 5.91 Mbytes remaining.
SUNWqlcu.....done. 5.85 Mbytes remaining.
SUNWqosu.....done. 5.73 Mbytes remaining.
SUNWqus.....done. 5.49 Mbytes remaining.
SUNWqusu.....done. 5.46 Mbytes remaining.
SUNWr cmdr.....done. 5.38 Mbytes remaining.
SUNWrge.....done. 5.22 Mbytes remaining.
SUNWroute.....done. 4.90 Mbytes remaining.
SUNWrpcib.....done. 4.75 Mbytes remaining.
SUNWsolnm.....done. 4.72 Mbytes remaining.
SUNWspnego.....done. 4.62 Mbytes remaining.
SUNWsshcu.....done. 4.18 Mbytes remaining.
SUNWsshdr.....done. 4.11 Mbytes remaining.
SUNWsshdu.....done. 3.69 Mbytes remaining.
SUNWsshr.....done. 3.58 Mbytes remaining.
SUNWsshu.....done. 3.00 Mbytes remaining.
SUNWtcsh.....done. 2.62 Mbytes remaining.
SUNWter.....done. 1.00 Mbytes remaining.

```

Completed software installation

Solaris 10 software installation partially failed

Solaris 10 packages partially installed
SUNWxwfont


```
Customizing system files
  - Mount points table (/etc/vfstab)
  - Network host addresses (/etc/hosts)
  - Environment variables (/etc/default/init)

Cleaning devices

Customizing system devices
  - Physical devices (/devices)
  - Logical devices (/dev)

Installing boot information
  - Installing boot blocks (c0t1d0s0)
  - Installing boot blocks (/dev/rdisk/c0t1d0s0)

Installation log location
  - /a/var/sadm/system/logs/install_log (before reboot)
  - /var/sadm/system/logs/install_log (after reboot)

Installation complete
Executing SolStart postinstall phase...
Executing finish script "patch_finish"...

Finish script patch_finish execution completed.
Executing JumpStart postinstall phase...
Executing finish script "any_finish"...

any_finish started with SI_CONFIG_DIR = /tmp/install_config
any_finish completed

Finish script any_finish execution completed.

The begin script log 'begin.log'
is located in /var/sadm/system/logs after reboot.

The finish script log 'finish.log'
is located in /var/sadm/system/logs after reboot.

syncing file systems... done
rebooting...

SC Alert: Host System has Reset

SC Alert: CRITICAL ALARM is set
\

Netra T2000, No Keyboard
Copyright 2008 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.28.6, 16256 MB memory available, Serial #76865034.
Ethernet address 0:14:4f:94:de:a, Host ID: 8494de0a.

Boot device: /pci@780/pci@0/pci@9/scsi@0/disk@1,0:a File and args:
SunOS Release 5.10 Version Generic_120011-14 64-bit
Copyright 1983-2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Hostname: vtghost
Configuring devices.
Loading smf(5) service descriptions: 40/108
108/108
/dev/rdisk/c0t1d0s5 is clean
Creating new rsa public/private host key pair
Creating new dsa public/private host key pair
```

```
vtghost console login: Oct 28 02:34:16 vtghost svc.startd[7]:
application/cde-printinfo:default failed: transitioned to maintenance (see 'svcs -xv' for
details)
```

```
vtghost console login: root
Password:
Oct 28 02:36:24 vtghost login: ROOT LOGIN /dev/console
Sun Microsystems Inc. SunOS 5.10 Generic January 2005
```

**Note**

The following two error messages will be recorded in the installation log:

```
“Solaris 10 software installation partially failed”
“application/cde-printinfo:default failed”
```

Please ignore these messages as the software will be installed during installation of the Core-finish script.

Configuring Your Host

To configure your host, complete the following steps.

- Step 1** Log in as root with the default password, vtghost. The system displays text similar to the following:

```
Oct 28 02:36:24 vtghost login: ROOT LOGIN /dev/console
Sun Microsystems Inc. SunOS 5.10 Generic January 2005

#
```

- Step 2** To reconfigure the system, enter the command the **sys-unconfig** and press Enter. The system displays text similar to the following:

```
#WARNING
#
#This program will unconfigure your system. It will cause it
#to revert to a "blank" system - it will not have a name or know
#about other systems or networks.
#
#This program will also halt the system.
#
#Do you want to continue (y/n) ?
```

Step 3 To continue the reconfiguration process, enter `y` and press `Enter`.

The system displays text similar to the following:

```
svc.startd: The system is coming down. Please wait.
svc.startd: 69 system services are now being stopped.
Oct 28 02:52:18 vtghost syslogd: going down on signal 15
svc.startd: The system is down.
syncing file systems... done
Program terminated
SC Alert: CRITICAL ALARM is set
terminated
{3} ok
```

Step 4 Reboot your system using the method identified for your platform type.

For Sparc-based platforms, enter the command **boot** and press `Enter` to reboot the system.

The system displays information similar to the following:

```
{8} ok boot

SC Alert: Host System has Reset

SC Alert: CRITICAL ALARM is set
|

Netra T2000, No Keyboard
Copyright 2008 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.28.6, 16256 MB memory available, Serial #76865034.
Ethernet address 0:14:4f:94:de:a, Host ID: 8494de0a.

Boot device: /pci@780/pci@0/pci@9/scsi@0/disk@1,0:a File and args:
SunOS Release 5.10 Version Generic_120011-14 64-bit
Copyright 1983-2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Hostname: unknown
Configuring devices.
/dev/rdisk/c0t1d0s5 is clean
```

Step 5 If you are installing on a Sparc-based platform, you must select your terminal type when a screen similar to the following is displayed:

```
What type of terminal are you using?

1) ANSI Standard CRT
2) DEC VT52
3) DEC VT100
4) Heathkit 19
5) Lear Siegler ADM31
6) PC Console
7) Sun Command Tool
8) Sun Workstation
9) Televideo 910
10) Televideo 925
11) Wyse Model 50
12) X Terminal Emulator (xterms)
13) CDE Terminal Emulator (dtterm)
14) Other
```

Type the number of your choice and press `Return`:

Enter the number that corresponds to the terminal you are using and press `Enter`. For example, if you are using an X terminal emulator, type `12` and press `Enter`. The system displays information similar to the following:

Please specify the keyboard layout from the list below.
 > To make a selection, use the arrow keys to highlight the option and press Return to mark it [X].

```
keyboard Layout
-----
^  [ ] Serbia-And-Montenegro
|  [ ] Slovenian
|  [ ] Slovakian
|  [ ] Spanish
|  [ ] Swedish
|  [ ] Swiss-French
|  [ ] Swiss-German
|  [ ] Taiwanese
|  [ ] TurkishQ
|  [ ] TurkishF
|  [ ] UK-English
-  [X] US-English
```

```
Creating new rsa public/private host key pair
Creating new dsa public/private host key pair
Configuring network interface addresses: e1000g0 e1000g1 e1000g2 e1000g3.
in.rdisc: No interfaces up
```

Text similar to the following is displayed:

Network Connectivity

Specify Yes if the system is connected to the network by one of the Solaris or vendor network/communication Ethernet cards that are supported on the Solaris CD. See your hardware documentation for the current list of supported cards.
 Specify No if the system is connected to a network/communication card that is not supported on the Solaris CD, and follow the instructions listed under Help.

Networked

```
-----
[X] Yes
[ ] No
```

 F2_Continue F6_Help

Step 6 Use the arrow keys to navigate, and press the spacebar to make your selection. Verify that you selected Yes and press F2 to continue.

The system displays text similar to the following:

Configure Multiple Network Interfaces

Multiple network interfaces have been detected on this system. Specify all of the network interfaces you want to configure.

Note: You must choose at least one interface to configure.

Network interfaces

```
-----
[ ] e1000g0
[ ] e1000g1
[ ] e1000g2
[ ] e1000g3
```

```
-----
F2_Continue    F6_Help
```

**Note**

The current screen might show a different interface, depending on the platform and PCI card that are installed. The interface configuration prompts do not provide an option to return to a previous step or to exit the interface configuration. If you enter an incorrect value, power down the BAMS; then power up the BAMS, and return to Step 4.

Step 7 Select the interface(s) you want to configure and press F2 to continue.

If you chose to configure a single interface, proceed to Step 9.

If you chose to configure multiple interfaces, proceed to Step 8.

Step 8 Before you configure multiple interfaces, the system displays text similar to the following:

```
Primary Network Interface
```

On this screen you must specify which of the following network adapters is the system's primary network interface. Usually the correct choice is the lowest number. However, do not guess; ask your system administrator if you're not sure.

> To make a selection, use the arrow keys to highlight the option and press Return to mark it [X].

```
Primary network interface
-----
```

```
[X] e1000g0
[ ] e1000g1
[ ] e1000g2
```

```
-----
Esc-2_Continue    Esc-6_Help
```

Select your primary network interface and press Esc-2 to continue.

Step 9 For this step, specify whether or not you want the network interface to use DHCP. The system displays text similar to the following:

```
DHCP for e1000g0
```

Specify whether or not this network interface should use DHCP to configure itself. Choose Yes if DHCP is to be used, or No if the network interface is to be configured manually.

NOTE: DHCP support will not be enabled, if selected, until after the system reboots.

```
Use DHCP for e1000g0
```

```
-----
[ ] Yes
[X] No
```

```
-----
Esc-2_Continue    Esc-6_Help
```

Step 10 Verify that you selected No and press Esc-2 to continue.

The system displays text similar to the following:

```
Host Name for e1000g0
```

Enter the host name which identifies this system on the network. The name must be unique within your domain; creating a duplicate host name will cause problems on the network after you install Solaris.

A host name must have at least one character; it can contain letters, digits, and minus signs (-).

Host name for e1000g0

Esc-2_Continue Esc-6_Help

**Caution**

If you are configuring your system with multiple interfaces, remember that each interface must have a unique name. If you enter the identical name for multiple interfaces, the installation script enters a loop, which requires you to reboot your system.

Step 11 Type the host name of the target Netra machine, and press Esc-2 to continue.

The system displays text similar to the following:

IP Address for e1000g0

Enter the Internet Protocol (IP) address for this network interface. It must be unique and follow your site's address conventions, or a system/network failure could result. IP addresses contain four sets of numbers separated by periods (for example 129.200.9.1).

IP address for e1000g0

IP address:

Esc-2_Continue Esc-6_Help

Step 12 Enter the IP address of this interface in dotted decimal format and press Esc-2 to continue.

The system displays text similar to the following:

Subnet for e1000g0

On this screen you must specify whether this system is part of a subnet. If you specify incorrectly, the system will have problems communicating on the network after you reboot.
> To make a selection, use the arrow keys to highlight the option and press Return to mark it [X].

System part of a subnet

 Yes

No

Esc-2_Continue Esc-6_Help

Note If you need to modify your IP addresses after you have installed Sun Solaris 10, there are three files you need to update, instead of the two files required in previous releases of Sun Solaris operating system software. The following files must be edited to in order to modify the IP address for an interface:

```
/etc/inet/hosts
/etc/hostname.inf_name
/etc/inet/ipnodes
```

Where inf_name is the name of the interface, such as e1000g0.

- Step 13** Verify that you selected Yes. (Use the arrow keys to move the cursor to Yes and press the spacebar to select it). Press Esc-2 to continue.

The system displays text similar to the following:

```
Netmask for e1000g0
```

```
On this screen you must specify the netmask of your subnet. A default netmask is shown; do not accept the default unless you are sure it is correct for your subnet. A netmask must contain four sets of numbers separated by periods (for example 255.255.255.0).
```

```
Netmask for e1000g0 255.255.255.0
```

```
-----
Esc-2_Continue    Esc-6_Help
```

- Step 14** Enter the site-specific Subnet Mask for the subnet. Press Esc-2 to continue.

The system displays text similar to the following:

```
IPv6 for e1000g0
```

```
Specify whether or not you want to enable IPv6, the next generation Internet Protocol, on this network interface. Enabling IPv6 will have no effect if this machine is not on a network that provides IPv6 service. IPv4 service will not be affected if IPv6 is enabled.
```

```
> To make a selection, use the arrow keys to highlight the option and          press
Return to mark it [X].
```

```
Enable IPv6 for e1000g0
```

```
-----
[ ] Yes
[X] No
```

```
-----
Esc-2_Continue    Esc-6_Help
```



Note

The system takes approximately 30 seconds to process this selection. A countdown appears in the display after you enter your selection.

- Step 15** Verify that No is selected and press F2 to continue.

Text similar to the following is displayed:

```
Set the Default Route for e1000g0
```

```
To specify the default route, you can let the software try to detect one          upon
reboot, you can specify the IP address of the router, or you can choose          None. Choose
None if you do not have a router on your subnet.
```

```
> To make a selection, use the arrow keys to select your choice and press          Return to
mark it [X].
```

```
Default Route for e1000g0
```

```
-----
[X] Detect one upon reboot
[ ] Specify one
[ ] None
```

```
-----
Esc-2_Continue    Esc-6_Help
```

Step 16 Verify that you selected “Specify one” and press Esc-2 to continue.

Text similar to the following is displayed.

```
Default Route IP Address for e1000g0
Enter the IP address of the default route. This entry will be placed in the
/etc/defaultrouter file and will be the default route after you reboot (example
129.146.89.225).
```

```
Router IP Address for e1000g0
```

```
-----
Esc-2_Continue   Esc-6_Help
```

Step 17 Enter the Router IP address of this interface in dotted decimal format and press Esc-2 to continue.

Text similar to the following is displayed:

```
Confirm Information for e1000g0
> Confirm the following information. If it is correct, press F2; to change any
information, press F4.
```

```
Primary network interface: e1000g0
Secondary network interfaces: e1000g1, e1000g2
System part of a subnet: Yes
Netmask: 255.255.255.224
Enable IPv6: No
Default Route: Specify one
Router IP Address: 10.74.49.1
```

```
Esc-2_Continue   Esc-4_Change   Esc-6_Help
```

Step 18 Confirm that the information displayed is correct. Press Esc-2 to accept the information and continue, or press Esc-4 to go back and make changes.



Note

The system takes approximately 30 seconds to process this selection. A countdown appears in the display after you enter your choice.

If you chose to configure a single interface, proceed to Step 20.

If you chose to configure multiple interfaces, proceed to Step 19.

Step 19 Repeat steps 9 through 18 for your next interface. Repeat these steps until you have configured all of your interfaces.

Step 20 Respond to the prompts included in the following displayed text.

```
Configure Security Policy:
```

```
Specify Yes if the system will use the Kerberos security mechanism.
Specify No if this system will use standard UNIX security.
```

```
Configure Kerberos Security
```

```
-----
[ ] Yes
[X] No
```

```
Esc-2_Continue   Esc-4_Change   Esc-6_Help
```


Step 21 Verify that you selected No and press Esc-2 to continue.

Text similar to the following is displayed:

```
Confirm Information
```

```
> Confirm the following information. If it is correct, press F2; to change any
information, press F4.
```

```
-----
Esc-2_Continue    Esc-4_Change    Esc-6_Help
```

Step 22 Confirm that you entered No to the preceding prompt. Press Esc-2 to continue.

Text similar to the following is displayed:

```
Name Service
```

```
On this screen you must provide name service information. Select the name service that
will be used by this system, or None if your system will either not use a name service at
all, or if it will use a name service not listed here.
```

```
> To make a selection, use the arrow keys to highlight the option and press Return to mark
it [X].
```

```
Name service
```

```
-----
[X] NIS+
[ ] NIS
[ ] DNS
[ ] LDAP
[ ] None
```

```
-----
Esc-2_Continue    Esc-6_Help
```

Step 23 Use the arrow keys to move the cursor to None and press the spacebar to select it. Press Esc-2 to continue.

Text similar to the following is displayed:

```
Confirm Information
```

```
> Confirm the following information. If it is correct, press F2; to
change any information, press F4.
```

```
Name service: None
```

```
Esc-2_Continue    Esc-4_Change    Esc-6_Help
```

Step 24 Enter the names of the search domains for this system and press Esc-2 to continue.

Text similar to the following is displayed:

```
NFSv4 Domain Name
```

```
NFS version 4 uses a domain name that is automatically derived from the system's
naming services. The derived domain name is sufficient for most configurations. In
a few cases, mounts that cross domain boundaries might cause files to appear to be
owned by "nobody" due to the lack of a common domain name.
```

```
The current NFSv4 default domain is: "
```

```
NFSv4 Domain Configuration
```

```
-----
[X] Use the NFSv4 domain derived by the system
[ ] Specify a different NFSv4 domain
```

```
Esc-2_Continue    Esc-6_Help
```

Step 25 Confirm that you responded to the preceding prompts correctly. Press Esc-2 to continue.

Text similar to the following is displayed.

```
Confirm Information for NFSv4 Domain
> Confirm the following information.  If it is correct, press F2;           to
change any information, press F4.
```

```
-----
Esc-2_Continue    Esc-4_Change    Esc-6_Help
```

Step 26 Confirm that you responded to the preceding prompts correctly. Press Esc-2 to continue.

Text similar to the following is displayed:

```
Time Zone
On this screen you must specify your default time zone.  You can specify a      time zone
in three ways:  select one of the continents or oceans from the      list, select other -
offset from GMT, or other - specify time zone file.
> To make a selection, use the arrow keys to highlight the option and      press
Return to mark it [X].
```

```
Continents and Oceans
-----
```

```
- [ ] Africa
| [ ] Americas
| [ ] Antarctica
| [ ] Arctic Ocean
| [ ] Asia
| [ ] Atlantic Ocean
| [ ] Australia
| [ ] Europe
| [ ] Indian Ocean
v [ ] Pacific Ocean
```

```
-----
Esc-2_Continue    Esc-6_Help
```

Step 27 Select the time zone in which the system is located.



Note

The following two steps show how to set the time zone. The example shows Eastern Standard Time in the United States.

- a. Use the arrow keys to move the cursor to Americas and press the spacebar to select it. Press Esc-2 to continue.

Text similar to the following is displayed.

```
Country or Region
> To make a selection, use the arrow keys to highlight the option and press Return to mark
it [X].
```

```
Countries and Regions
-----
```

```
- [ ] United States
| [ ] Anguilla
| [ ] Antigua & Barbuda
| [ ] Argentina
| [ ] Aruba
```

```

|   [ ] Bahamas
|   [ ] Barbados
|   [ ] Belize
|   [ ] Bolivia
|   [ ] Brazil
|   [ ] Canada
|   [ ] Cayman Islands
|   [ ] Chile
v   [ ] Colombia

```

```
-----
Esc-2_Continue   Esc-6_Help

```

- b.** Use the arrow keys to move the cursor to United States and press the spacebar to select it. Press Esc-2 to continue.

Text similar to the following is displayed:

```

Time Zone
> To make a selection, use the arrow keys to highlight the option and press Return to mark
it [X].

```

```
Time zones
```

```
-----
-   [ ] Eastern Time
|   [ ] Eastern Time - Michigan - most locations
|   [ ] Eastern Time - Kentucky - Louisville area
|   [ ] Eastern Time - Kentucky - Wayne County
|   [ ] Eastern Time - Indiana - most locations
|   [ ] Eastern Time - Indiana - Starke County
|   [ ] Eastern Time - Indiana - Pulaski County
|   [ ] Eastern Time - Indiana - Crawford County
|   [ ] Eastern Time - Indiana - Switzerland County
|   [ ] Central Time
|   [ ] Central Time - Indiana - Daviess, Dubois, Knox, Martin & Perry Count
|   [ ] Central Time - Indiana - Pike County
|   [ ] Central Time - Michigan - Dickinson, Gogebic, Iron & Menominee Count
v   [ ] Central Time - North Dakota - Oliver County

```

```
-----
Esc-2_Continue   Esc-6_Help

```

- c.** Use the arrow keys to move the cursor to your time zone (in this example, “Eastern Time” is selected). Press the space bar to select it. Press Esc-2 to continue.

Text similar to the following is displayed:

```
Date and Time
```

```
> Accept the default date and time or enter new values.
```

```

Date and time: 2008-10-28 04:40
Year   (4 digits) : 2008
Month  (1-12)    : 10
Day    (1-31)    : 28
Hour   (0-23)    : 04
Minute (0-59)    : 40
Esc-2_Continue   Esc-6_Help

```

Step 28 Enter the correct date and time and press F2 to continue.

Text similar to the following is displayed:

```
Confirm Information
> Confirm the following information.  If it is correct, press F2; to change any
information, press F4
.
Time zone: Eastern Time
(US/Eastern)
Date and time: 2008-10-28 04:40:00
Esc-2_Continue   Esc-4_Change   Esc-6_Help
```

Step 29 Confirm that you responded to the preceding prompts correctly. Press F2 to continue.

Text similar to the following is displayed:

```
Root Password

Please enter the root password for this system. The root password may contain alphanumeric
and special characters. For security, the password will not be displayed on the screen as
you type it.
> If you do not want a root password, leave both entries blank.
Root password:
Root password:

-----
Esc-2_Continue   Esc-6_Help
```

Step 30 Enter your root password twice and press Esc-2 to continue.

Text similar to the following might be displayed:

```
System identification is completed.

rebooting system due to change(s) in /etc/default/init

syncing file systems... done
rebooting...

SC Alert: Host System has Reset

SC Alert: CRITICAL ALARM is set
/

Netra T2000, No Keyboard
Copyright 2008 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.28.6, 16256 MB memory available, Serial #76865034.
Ethernet address 0:14:4f:94:de:a, Host ID: 8494de0a.

Boot device: /pci@780/pci@0/pci@9/scsi@0/disk@1,0:a File and args:
SunOS Release 5.10 Version Generic_120011-14 64-bit
Copyright 1983-2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Hostname: sh-netra-T2000
/dev/rdisk/c0t1d0s5 is clean

sh-netra-T2000 console login: Oct 28 04:42:45 sh-netra-T2000 svc.startd[7]:
application/cde-printinfo:default failed: transitioned to maintenance (see 'svcs -xv' for
details)

sh-netra-T2000 console login:
```

- Step 31** If you want to enable root access to the Cisco BAMS, complete the following steps:
- a. Edit the `/etc/default/login` file, and make the following changes:
 - Comment out the line starting with “`CONSOLE=`” by inserting a “`#`” in front of this line.
 - Add the line “`svcadm enable telnet`” if you want to enable telnet.
 - Add the line “`svcadm enable rlogin`” if you want to enable remote login.
 - b. Save your changes to this file.

**Caution**

Step 31 is optional. Telnet and rlogin might expose your platform to security risk. Turn them on only if required.

Platform-Specific Installation Procedure

Complete the following steps to install files specific to your Cisco platform:

Step 1 Log in as root with the default password, `vtghost`.

Step 2 Reinsert the CD into the CD-ROM drive.

Step 3 Mount the CD-ROM in the `cdrom` directory by entering the following command:

```
mount -F hsfs -o ro /dev/dsk/devname /cdrom For example mount -F hsfs -o ro
/dev/dsk/c1t0d0s0 /cdrom
```

**Note**

The `devname` is the device name for the primary CD-ROM drive. The device name might vary depending on your hardware platform. To verify the device name on your Netra T2000, issue the Solaris command `iostat -En`.

Step 4 Run the script `core_finish` by entering the appropriate command.

For Sparc-based platforms:

```
./cdrom/core_finish/core_finish.sh
```

Step 5 The script prompts you to enter the name of your host twice. Enter the name of your host and press Enter each time.

**Note**

When you enter the name of your host at this time you do not set the UNIX host name value. The value you enter is used to set up the crash directory `/var/hostname/crash`. The system returns a response similar to the following:

```
sh-netra-T2000 is the hostname of this box; enter hostname that applies to your specific
case
```

Text similar to the following is displayed:

```
CORE CD installation finishing procedure started
```

```
Please enter this host node name:
```

```

sh-netra-T2000
Re-enter this host node name:
sh-netra-T2000
Using 'sh-netra-T2000' for this host
Start installation of core extra packages

Processing package instance <SUNWxfnt> from </cdrom/Solaris_10/Product>

X Window System platform required fonts(sparc) 6.6.2.7400,REV=0.2004.12.15

This appears to be an attempt to install the same architecture and
version of a package which is already installed. This installation
will attempt to overwrite this package.

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

Installing X Window System platform required fonts as <SUNWxfnt>

## Installing part 1 of 1.
[ verifying class <fontsdire> ]
[ verifying class <fontsalias> ]
[ verifying class <encodingsdire> ]
[ verifying class <ttmapsdire> ]

Installation of <SUNWxfnt> was successful.
Adding <SUNWvts>

Processing package instance <SUNWvts> from </opt/xtrapkgs>

SunVTS Framework(sparc) 7.0,REV=2007.11.22.17.02
## Executing checkinstall script.
Copyright 2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Using </usr> as the package base directory.
## Processing package information.
## Processing system information.

Installing SunVTS Framework as <SUNWvts>

## Installing part 1 of 1.
11804 blocks

Installation of <SUNWvts> was successful.
Adding <SUNWvtsr>

Processing package instance <SUNWvtsr> from </opt/xtrapkgs>

SunVTS Framework (Root)(sparc) 7.0,REV=2007.11.22.17.02
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    1 package pathname is already properly installed.

Installing SunVTS Framework (Root) as <SUNWvtsr>

## Installing part 1 of 1.
Copyright 2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
6 blocks

```

```
Installation of <SUNWvtsr> was successful.
Adding <SUNWvtsts>

Processing package instance <SUNWvtsts> from </opt/xtrapkgs>

SunVTS Core Installation Tests(sparc) 7.0,REV=2007.11.22.17.02
## Executing checkinstall script.
Copyright 2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Using </usr> as the package base directory.
## Processing package information.
## Processing system information.
    11 package pathnames are already properly installed.

Installing SunVTS Core Installation Tests as <SUNWvtsts>

## Installing part 1 of 1.
97583 blocks

Installation of <SUNWvtsts> was successful.
Adding <SUNWexplo>

Processing package instance <SUNWexplo> from </opt/xtrapkgs>

Sun(TM) Explorer Data Collector(all) 5.10,REV=2007.09.20.19.12
## Executing checkinstall script.
Copyright 1996-2007 Sun Microsystems, Inc.
All rights reserved.
Using </opt> as the package base directory.
## Processing package information.
## Processing system information.

Installing Sun(TM) Explorer Data Collector as <SUNWexplo>

## Executing preinstall script.
## Installing part 1 of 1.
/opt/SUNWexplo/LICENSEREADME/LICENSE.txt
/opt/SUNWexplo/LICENSEREADME/THIRDPARTYLICENSEREADME.txt
/opt/SUNWexplo/bin/capture.sparc
/opt/SUNWexplo/bin/core_check.sh
/opt/SUNWexplo/bin/curl.i386
/opt/SUNWexplo/bin/curl.sparc
/opt/SUNWexplo/bin/diskinfo.i386
/opt/SUNWexplo/bin/diskinfo.sparc
/opt/SUNWexplo/bin/exp_defaults
/opt/SUNWexplo/bin/explorer
/opt/SUNWexplo/bin/explorer_notify_update
/opt/SUNWexplo/bin/instinfo_config
/opt/SUNWexplo/bin/j2se_config
/opt/SUNWexplo/bin/mktime.i386
/opt/SUNWexplo/bin/mktime.sparc
/opt/SUNWexplo/bin/rprtfru.sparc
/opt/SUNWexplo/bin/se3kxtr.ksh
/opt/SUNWexplo/bin/snapshot
/opt/SUNWexplo/bin/st_diag.i386
/opt/SUNWexplo/bin/st_diag.sparc
/opt/SUNWexplo/bin/sunone_config
/opt/SUNWexplo/bin/sunone_ps
/opt/SUNWexplo/doc/CHANGES
/opt/SUNWexplo/doc/README
/opt/SUNWexplo/doc/README.j2se_config
/opt/SUNWexplo/doc/README.man
/opt/SUNWexplo/doc/README.sunone_config
```

```

/opt/SUNWexplo/java/fruid-scappclient.jar
/opt/SUNWexplo/java/libfru.jar
/opt/SUNWexplo/lib/AMERICAS_countries.1
/opt/SUNWexplo/lib/AMERICAS_countries.2
/opt/SUNWexplo/lib/AMERICAS_countries.3
/opt/SUNWexplo/lib/AMERICAS_countries_codes
/opt/SUNWexplo/lib/APAC_countries.1
/opt/SUNWexplo/lib/APAC_countries.2
/opt/SUNWexplo/lib/APAC_countries.3
/opt/SUNWexplo/lib/APAC_countries.4
/opt/SUNWexplo/lib/APAC_countries_codes
/opt/SUNWexplo/lib/EMEA_countries.1
/opt/SUNWexplo/lib/EMEA_countries.2
/opt/SUNWexplo/lib/EMEA_countries.3
/opt/SUNWexplo/lib/EMEA_countries.4
/opt/SUNWexplo/lib/EMEA_countries.5
/opt/SUNWexplo/lib/EMEA_countries.6
/opt/SUNWexplo/lib/EMEA_countries.7
/opt/SUNWexplo/lib/EMEA_countries.8
/opt/SUNWexplo/lib/EMEA_countries_codes
/opt/SUNWexplo/lib/ca-bundle.crt
/opt/SUNWexplo/lib/crontab.txt
/opt/SUNWexplo/lib/exp_check
/opt/SUNWexplo/lib/exp_common
/opt/SUNWexplo/lib/exp_file
/opt/SUNWexplo/lib/exp_ftp
/opt/SUNWexplo/lib/exp_https
/opt/SUNWexplo/lib/exp_j2se
/opt/SUNWexplo/lib/exp_mail
/opt/SUNWexplo/lib/exp_main
/opt/SUNWexplo/lib/exp_postproc
/opt/SUNWexplo/lib/exp_sunone
/opt/SUNWexplo/lib/exp_tools
/opt/SUNWexplo/lib/exp_transport
/opt/SUNWexplo/lib/libfru.so <symbolic link>
/opt/SUNWexplo/lib/libfru.so.1
/opt/SUNWexplo/lib/libfrujni.so <symbolic link>
/opt/SUNWexplo/lib/libfrujni.so.1
/opt/SUNWexplo/lib/libfrureg.so <symbolic link>
/opt/SUNWexplo/lib/libfrureg.so.1
/opt/SUNWexplo/lib/libfrurmi.so <symbolic link>
/opt/SUNWexplo/lib/libfrurmi.so.1
/opt/SUNWexplo/lib/libfruutils.so <symbolic link>
/opt/SUNWexplo/lib/libfruutils.so.1
/opt/SUNWexplo/lib/locale/C/LC_MESSAGES/explorer.mo
/opt/SUNWexplo/lib/locale/C/LC_MESSAGES/explorer.po
/opt/SUNWexplo/lib/snapshot.conf
/opt/SUNWexplo/lib/uu2b64
/opt/SUNWexplo/man/man1m/explorer.1m
/opt/SUNWexplo/man/man4/explorer.4
/opt/SUNWexplo/man/man5/explorer.5
/opt/SUNWexplo/tools/1280extended
/opt/SUNWexplo/tools/Tx000
/opt/SUNWexplo/tools/alomextended
/opt/SUNWexplo/tools/b1600extended
/opt/SUNWexplo/tools/b1600switch
/opt/SUNWexplo/tools/cluster
/opt/SUNWexplo/tools/cmdline
/opt/SUNWexplo/tools/crypto
/opt/SUNWexplo/tools/cst
/opt/SUNWexplo/tools/disks
/opt/SUNWexplo/tools/emc
/opt/SUNWexplo/tools/etc
/opt/SUNWexplo/tools/fcal

```



```
/opt/SUNWexplo/tools/firelink
/opt/SUNWexplo/tools/fma
/opt/SUNWexplo/tools/fru
/opt/SUNWexplo/tools/hds
/opt/SUNWexplo/tools/ilomextended
/opt/SUNWexplo/tools/indy
/opt/SUNWexplo/tools/init
/opt/SUNWexplo/tools/instinfo
/opt/SUNWexplo/tools/iplanet <symbolic link>
/opt/SUNWexplo/tools/ipmi
/opt/SUNWexplo/tools/ipmiextended
/opt/SUNWexplo/tools/j2se
/opt/SUNWexplo/tools/ldap
/opt/SUNWexplo/tools/lic
/opt/SUNWexplo/tools/lp
/opt/SUNWexplo/tools/lvm
/opt/SUNWexplo/tools/messages
/opt/SUNWexplo/tools/nbu
/opt/SUNWexplo/tools/nbu_extended
/opt/SUNWexplo/tools/ndd
/opt/SUNWexplo/tools/netconnect
/opt/SUNWexplo/tools/netinfo
/opt/SUNWexplo/tools/nhas
/opt/SUNWexplo/tools/patch
/opt/SUNWexplo/tools/pci
/opt/SUNWexplo/tools/photon
/opt/SUNWexplo/tools/pkg
/opt/SUNWexplo/tools/proc
/opt/SUNWexplo/tools/quorumserv
/opt/SUNWexplo/tools/samfs
/opt/SUNWexplo/tools/sanextended
/opt/SUNWexplo/tools/sap
/opt/SUNWexplo/tools/sbu
/opt/SUNWexplo/tools/scextended
/opt/SUNWexplo/tools/se3k
/opt/SUNWexplo/tools/se3kextended
/opt/SUNWexplo/tools/se61xx
/opt/SUNWexplo/tools/se6320
/opt/SUNWexplo/tools/se6920
/opt/SUNWexplo/tools/sf15k_ndd
/opt/SUNWexplo/tools/sf15k_sc
/opt/SUNWexplo/tools/smfextended
/opt/SUNWexplo/tools/sonoma
/opt/SUNWexplo/tools/srsextended
/opt/SUNWexplo/tools/ssa
/opt/SUNWexplo/tools/ssp
/opt/SUNWexplo/tools/st25xx
/opt/SUNWexplo/tools/storade
/opt/SUNWexplo/tools/storedge
/opt/SUNWexplo/tools/stortools
/opt/SUNWexplo/tools/sunjес
/opt/SUNWexplo/tools/sunone
/opt/SUNWexplo/tools/sunray
/opt/SUNWexplo/tools/sysconfig
/opt/SUNWexplo/tools/syslogs
/opt/SUNWexplo/tools/t3
/opt/SUNWexplo/tools/t3extended
/opt/SUNWexplo/tools/tape
/opt/SUNWexplo/tools/test
/opt/SUNWexplo/tools/u4ft
/opt/SUNWexplo/tools/ufseextended
/opt/SUNWexplo/tools/var
/opt/SUNWexplo/tools/vtsst
/opt/SUNWexplo/tools/vxfs
```

```

/opt/SUNWexplo/tools/vxvm
/opt/SUNWexplo/tools/xscfextended
[ verifying class <none> ]
## Executing postinstall script.
/usr/bin/catman is not available for use
Please run: catman -w -M /opt/SUNWexplo/man manually

Installation of <SUNWexplo> was successful.
Adding <SUNWexplu>

Processing package instance <SUNWexplu> from </opt/xtrapkgs>

Sun(TM) Explorer Data Collector Config Files(all) 5.10,REV=2007.09.20.19.12
## Executing checkinstall script.
Copyright 1996-2007 Sun Microsystems, Inc.
All rights reserved.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    2 package pathnames are already properly installed.

Installing Sun(TM) Explorer Data Collector Config Files as <SUNWexplu>

## Installing part 1 of 1.
/etc/opt/SUNWexplo/LICENSEREADME/LICENSE.txt
/etc/opt/SUNWexplo/t3files.txt
[ verifying class <none> ]
Modifying /etc/opt/SUNWexplo/1280input.txt
Modifying /etc/opt/SUNWexplo/alominput.txt
Modifying /etc/opt/SUNWexplo/b1600input.txt
Modifying /etc/opt/SUNWexplo/b1600switchinput.txt
Modifying /etc/opt/SUNWexplo/ilominput.txt
Modifying /etc/opt/SUNWexplo/indyinput.txt
Modifying /etc/opt/SUNWexplo/ipmiinput.txt
Modifying /etc/opt/SUNWexplo/saninput.txt
Modifying /etc/opt/SUNWexplo/scinput.txt
Modifying /etc/opt/SUNWexplo/se3kinput.txt
Modifying /etc/opt/SUNWexplo/se6320input.txt
Modifying /etc/opt/SUNWexplo/se6920input.txt
Modifying /etc/opt/SUNWexplo/srscinput.txt
Modifying /etc/opt/SUNWexplo/t3input.txt
Modifying /etc/opt/SUNWexplo/tapeinput.txt
Modifying /etc/opt/SUNWexplo/xscfinput.txt
[ verifying class <build> ]
## Executing postinstall script.

Installation of <SUNWexplu> was successful.
Adding <SUNWpsr>

Processing package instance <SUNWpsr> from </opt/xtrapkgs>

Solaris Print - LP Server, (root)(sparc) 13.1,REV=2005.01.21.15.53
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    11 package pathnames are already properly installed.

Installing Solaris Print - LP Server, (root) as <SUNWpsr>

## Executing preinstall script.
Copyright 2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
## Installing part 1 of 1.
19 blocks

```

```
[ verifying class <renameold> ]
[ verifying class <preserve> ]
[ verifying class <manifest> ]
## Executing postinstall script.

Installation of <SUNWpsr> was successful.
Adding <SUNWpsr>

Processing package instance <SUNWpsr> from </opt/xtrapkgs>

Solaris Print - Client, (root)(sparc) 13.1,REV=2005.01.21.15.53
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    10 package pathnames are already properly installed.

Installing Solaris Print - Client, (root) as <SUNWpsr>

## Installing part 1 of 1.
Copyright 2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
2 blocks
[ verifying class <preserve> ]
[ verifying class <manifest> ]
## Executing postinstall script.

Installation of <SUNWpsr> was successful.
Adding <SUNWpsr>

Processing package instance <SUNWpsr> from </opt/xtrapkgs>

Solaris Print - Client, (usr)(sparc) 13.1,REV=2005.01.21.15.53
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    4 package pathnames are already properly installed.

Installing Solaris Print - Client, (usr) as <SUNWpsr>

## Installing part 1 of 1.
Copyright 2007 Sun Microsystems, Inc. All rights reserved.
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545 blocks

Installation of <SUNWpsr> was successful.
Adding <SUNWpsr>

Processing package instance <SUNWpsr> from </opt/xtrapkgs>

Solaris Print - LP Server, (usr)(sparc) 13.1,REV=2005.01.21.15.53
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    12 package pathnames are already properly installed.

Installing Solaris Print - LP Server, (usr) as <SUNWpsr>

## Installing part 1 of 1.
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3157 blocks

Installation of <SUNWpsr> was successful.
Adding <SMCsudo>
```

```
Processing package instance <SMCsudo> from </opt/xtrapkgs>
```

```
sudo(sparc) 1.6.9p12
Todd Miller et al
Using </usr/local> as the package base directory.
## Processing package information.
## Processing system information.
    2 package pathnames are already properly installed.
```

```
Installing sudo as <SMCsudo>
```

```
## Installing part 1 of 1.
/usr/local/bin/sudo
/usr/local/bin/sudoedit
/usr/local/doc/sudo/BUGS
/usr/local/doc/sudo/CHANGES
/usr/local/doc/sudo/HISTORY
/usr/local/doc/sudo/INSTALL
/usr/local/doc/sudo/INSTALL.configure
/usr/local/doc/sudo/LICENSE
/usr/local/doc/sudo/PORTING
/usr/local/doc/sudo/README
/usr/local/doc/sudo/README.LDAP
/usr/local/doc/sudo/TROUBLESHOOTING
/usr/local/doc/sudo/UPGRADE
/usr/local/etc/sudoers
/usr/local/libexec/sudo_noexec.la
/usr/local/libexec/sudo_noexec.so
/usr/local/man/man1m/sudo.1m
/usr/local/man/man1m/sudoedit.1m
/usr/local/man/man1m/visudo.1m
/usr/local/man/man4/sudoers.4
/usr/local/sbin/visudo
[ verifying class <none> ]
```

```
Installation of <SMCsudo> was successful.
Adding <SMClsof>
```

```
Processing package instance <SMClsof> from </opt/xtrapkgs>
```

```
lsof(sparc) 4.77
Vic Abell
Using </usr/local> as the package base directory.
## Processing package information.
## Processing system information.
    3 package pathnames are already properly installed.
```

```
Installing lsof as <SMClsof>
```

```
## Installing part 1 of 1.
/usr/local/bin/lsof
/usr/local/bin/sparcv7/lsof
/usr/local/bin/sparcv9/lsof
/usr/local/doc/lsof/00.README.FIRST <attribute change only>
/usr/local/doc/lsof/00CREDITS
/usr/local/doc/lsof/00DCACHE
/usr/local/doc/lsof/00DIALECTS
/usr/local/doc/lsof/00DIST
/usr/local/doc/lsof/00FAQ
/usr/local/doc/lsof/00LSOF-L
/usr/local/doc/lsof/00MANIFEST
/usr/local/doc/lsof/00PORTING
/usr/local/doc/lsof/00QUICKSTART
```

```

/usr/local/doc/lsof/00README
/usr/local/doc/lsof/00TEST
/usr/local/doc/lsof/00XCONFIG
/usr/local/doc/lsof/lsof.man
/usr/local/man/man8/lsof.8
[ verifying class <none> ]

Installation of <SMClsof> was successful.
SUNW,Netra-T2000

SUNW,Netra-T2000 needs LOM packages
spawn pkgadd -d . SUNWlomr

Processing package instance <SUNWlomr> from </opt/lompkgs>

LOMlite driver (root)(sparc) 2.0,REV=2000.08.22.14.14
Copyright 2000 Sun Microsystems, Inc. All rights reserved.
## Executing checkinstall script.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    7 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 <SUNWlomr> [y,n,?] y

Installing LOMlite driver (root) as <SUNWlomr>

## Installing part 1 of 1.
20 blocks
i.drivers (INFO): Starting
i.drivers (INFO): Installing /opt/lompkgs/SUNWlomr/reloc/platform/sun4u/kernel/drv/lom
i.drivers (INFO): Installing /opt/lompkgs/SUNWlomr/reloc/platform/sun4u/kernel/drv/lomp
i.drivers (INFO): Installing
/opt/lompkgs/SUNWlomr/reloc/platform/sun4u/kernel/drv/sparcv9/lom
i.drivers (INFO): Installing
/opt/lompkgs/SUNWlomr/reloc/platform/sun4u/kernel/drv/sparcv9/lomp
i.drivers (INFO): Installing
/opt/lompkgs/SUNWlomr/reloc/platform/sun4u/kernel/drv/sparcv9/lomv

i.drivers (INFO): Identified drivers 'lom lomp lomv'
i.drivers (INFO): Cleaning up old driver 'lom'...
i.drivers (INFO): Cleaning up old driver 'lomp'...
i.drivers (INFO): Cleaning up old driver 'lomv'...
i.drivers (INFO): Cleaning up old driver 'lomh'...

i.drivers (INFO): Adding driver 'lomp'...
    driver = 'lomp'
    aliases = ''
    link = 'lomp'
    spec = 'lomp'

Adding devlink entry 'type=ddi_pseudo;name=lomp lomp'
adding driver with aliases '' perm '* 0644 root sys'
Cannot find module (lomp).
i.drivers (ERROR): Failed to add driver, status 1

i.drivers (INFO): Adding driver 'lomv'...
```

```

driver = 'lomv'
aliases = 'SUNW,lomv'
link = 'SUNW,lomv lomv'
spec = '\M0'

Adding devlink entry 'type=ddi_pseudo;name=SUNW,lomv \M0'
Adding devlink entry 'type=ddi_pseudo;name=lomv \M0'
adding driver with aliases 'SUNW,lomv' perm '* 0644 root sys'
Cannot find module (lomv).
i.drivers (ERROR): Failed to add driver, status 1

i.drivers (INFO): Adding driver 'lom'...
driver = 'lom'
aliases = 'SUNW,lomh SUNW,lom'
link = 'SUNW,lomh SUNW,lom'
spec = 'lom'

Adding devlink entry 'type=ddi_pseudo;name=SUNW,lomh lom'
Adding devlink entry 'type=ddi_pseudo;name=SUNW,lom lom'
adding driver with aliases 'SUNW,lomh SUNW,lom' perm '* 0644 root sys'
Cannot find module (lom).
i.drivers (ERROR): Failed to add driver, status 1
i.drivers (ERROR): Failed with status 1

pkgadd: ERROR: class action script did not complete successfully

Installation of <SUNWlomr> failed.
spawn pkgadd -d . SUNWlomu

Processing package instance <SUNWlomu> from </opt/lompkgs>

LOmlite Utilities (usr)(sparc) 2.0,REV=2000.08.22.14.14
Copyright 2000 Sun Microsystems, Inc. All rights reserved.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
4 package pathnames are already properly installed.
## Verifying package dependencies.
WARNING:
The <SUNWlomr> package "LOmlite driver (root)" is a
prerequisite package and is not completely installed.

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

Installing LOmlite Utilities (usr) as <SUNWlomu>

## Installing part 1 of 1.
2333 blocks

Installation of <SUNWlomu> was successful.
Validating patches...

Loading patches installed on the system...

Done!

Loading patches requested to install.

Done!

The following requested patches have packages not installed on the system

```

Package SUNWlomm from directory SUNWlomm in patch 110208-22 is not installed on the system. Changes for package SUNWlomm will not be applied to the system.
 Package SUNWclomu from directory SUNWclomu in patch 110208-22 is not installed on the system. Changes for package SUNWclomu will not be applied to the system.
 Package SUNWdlomu from directory SUNWdlomu in patch 110208-22 is not installed on the system. Changes for package SUNWdlomu will not be applied to the system.
 Package SUNWelomu from directory SUNWelomu in patch 110208-22 is not installed on the system. Changes for package SUNWelomu will not be applied to the system.
 Package SUNWflomu from directory SUNWflomu in patch 110208-22 is not installed on the system. Changes for package SUNWflomu will not be applied to the system.
 Package SUNWhlomu from directory SUNWhlomu in patch 110208-22 is not installed on the system. Changes for package SUNWhlomu will not be applied to the system.
 Package SUNWilomu from directory SUNWilomu in patch 110208-22 is not installed on the system. Changes for package SUNWilomu will not be applied to the system.
 Package SUNWjlu from directory SUNWjlu in patch 110208-22 is not installed on the system. Changes for package SUNWjlu will not be applied to the system.
 Package SUNWklomu from directory SUNWklomu in patch 110208-22 is not installed on the system. Changes for package SUNWklomu will not be applied to the system.
 Package SUNWslomu from directory SUNWslomu in patch 110208-22 is not installed on the system. Changes for package SUNWslomu will not be applied to the system.

Checking patches that you specified for installation.

Done!

Approved patches will be installed in this order:

110208-22

Checking installed patches...

Verifying sufficient filesystem capacity (dry run method)...

Installing patch packages...

Patch 110208-22 has been successfully installed.

See /var/sadm/patch/110208-22/log for details

Executing postpatch script...

postpatch (INFO): Starting

postpatch (INFO): Identified drivers 'lom lomv'

postpatch (INFO): Cleaning up old driver 'lom'...

Cleaning up old devlink entry 'type=ddi_pseudo;name=SUNW,lom lom'

postpatch (INFO): Cleaning up old driver 'lomv'...

Cleaning up old devlink entry 'type=ddi_pseudo;name=lomp lomv'

postpatch (INFO): Cleaning up old driver 'lomv'...

Cleaning up old devlink entry 'type=ddi_pseudo;name=SUNW,lomv \M0

type=ddi_pseudo;name=lomv \M0'

postpatch (INFO): Cleaning up old driver 'lomh'...

Cleaning up old devlink entry 'type=ddi_pseudo;name=SUNW,lomh lom'

postpatch (INFO): Adding driver 'lomp'...

driver = 'lomp'

aliases = ''

link = 'lomp'

spec = 'lomp'

Adding devlink entry 'type=ddi_pseudo;name=lomp lomv'

adding driver with aliases '' perm '* 0644 root sys'

Cannot find module (lomp).

postpatch (ERROR): Failed to add driver, status 1

postpatch (INFO): Adding driver 'lomv'...

driver = 'lomv'

```

aliases = 'SUNW,lomv'
link     = 'SUNW,lomv lomv'
spec     = '\M0'

Adding devlink entry 'type=ddi_pseudo;name=SUNW,lomv \M0'
Adding devlink entry 'type=ddi_pseudo;name=lomv \M0'
adding driver with aliases 'SUNW,lomv' perm '* 0644 root sys'
Cannot find module (lomv).
postpatch (ERROR): Failed to add driver, status 1

postpatch (INFO): Adding driver 'lom'...
driver   = 'lom'
aliases  = 'SUNW,lomh SUNW,lom'
link     = 'SUNW,lomh SUNW,lom'
spec     = 'lom'

Adding devlink entry 'type=ddi_pseudo;name=SUNW,lomh lom'
Adding devlink entry 'type=ddi_pseudo;name=SUNW,lom lom'
adding driver with aliases 'SUNW,lomh SUNW,lom' perm '* 0644 root sys'
Cannot find module (lom).
postpatch (ERROR): Failed to add driver, status 1
postpatch (ERROR): Failed with status 1

The postpatch script exited with return code 1.
Backing out patch:
Validating patches...

Loading patches installed on the system...

Done!

Checking patches that you specified for removal.

Done!

Approved patches will be removed in this order:

110208-22

The installation of patch 110208-22 was interrupted.
Patchadd needs to be re-invoked to ensure proper installation of the patch.

Patchrm is terminating.
WARNING: patchrm returned <14>
See /tmp/patchadd-16626830/log.110208-22 for more details.

Patchadd is terminating.
Installing 126868-01...
Installation of 126868-01 succeeded. Return code 0.
Installing 118815-06...
Installation of 118815-06 succeeded. Return code 0.
Installing 119254-50...
Installation of 119254-50 succeeded. Return code 0.
Installing 126661-02...
Installation of 126661-02 succeeded. Return code 0.
Installing 125476-02...
Installation of 125476-02 succeeded. Return code 0.
Installing 125378-03...
Installation of 125378-03 succeeded. Return code 0.
Installing 121002-04...
Installation of 121002-04 succeeded. Return code 0.
Installing 120222-23...
Installation of 120222-23 succeeded. Return code 0.
Installing 125731-02...

```



```
Installation of 125731-02 succeeded. Return code 0.
Installing 119059-38...
Installation of 119059-38 succeeded. Return code 0.
Installing 119783-05...
Installation of 119783-05 succeeded. Return code 0.
Installing 120272-16...
Installation of 120272-16 succeeded. Return code 0.
Installing 128491-01...
Installation of 128491-01 succeeded. Return code 0.
Installing 125166-07...
Installation of 125166-07 succeeded. Return code 0.
Installing 125369-13...
Installation of 125369-13 succeeded. Return code 0.
Installing 127737-01...
Installation of 127737-01 succeeded. Return code 0.
Installing 125081-14...
Installation of 125081-14 succeeded. Return code 0.
Installing 128028-03...
Installation of 128028-03 succeeded. Return code 0.
Installing 127739-03...
Installation of 127739-03 succeeded. Return code 0.
Installing 124256-05...
Installation of 124256-05 succeeded. Return code 0.
Installing 127111-06...
Installation of 127111-06 succeeded. Return code 0.
Installing 125251-02...
Installation of 125251-02 succeeded. Return code 0.
The following patches were installed:
    126868-01
    118815-06
    119254-50
    126661-02
    125476-02
    125378-03
    121002-04
    120222-23
    125731-02
    119059-38
    119783-05
    120272-16
    128491-01
    125166-07
    125369-13
    127737-01
    125081-14
    128028-03
    127739-03
    124256-05
    127111-06
    125251-02
Check details in /opt/0708patches_log.1892
Completed installation of core extra packages
Start core hardening
Changing EEPROM settings..
eprom: OPROMSETOPT: Invalid argument
diag-level: invalid property.
Enable recording of failed login attempts
    Dump content: kernel pages
    Dump device: /dev/dsk/c0t1d0s3 (swap)
Savecore directory: /var/crash/sh-netra-T2000
    Savecore enabled: yes
Completed core hardening
CORE CD installation completed
Ejecting CORE CD...
```

```

Rebooting ..
Oct 28 04:57:47 sh-netra-T2000 reboot: rebooted by root
Oct 28 04:57:47 sh-netra-T2000 syslogd: going down on signal 15
syncing file systems... done
rebooting...

SC Alert: Host System has Reset

SC Alert: CRITICAL ALARM is set
-
Netra T2000, No Keyboard
Copyright 2008 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.28.6, 16256 MB memory available, Serial #76865034.
Ethernet address 0:14:4f:94:de:a, Host ID: 8494de0a.

Boot device: disk0 File and args:
SunOS Release 5.10 Version Generic_127111-06 64-bit
Copyright 1983-2007 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Hostname: sh-netra-T2000
Configuring devices.
Loading smf(5) service descriptions: 6/6
/dev/rdisk/c0t1d0s5 is clean

sh-netra-T2000 console login: root
Password:
Last login: Tue Oct 28 04:42:56 on console
Sun Microsystems Inc. SunOS 5.10 Generic January 2005
#

```

- Step 6** The Sun Netra T2000 platform is ready for Solaris 10 Environment patch and BAMS installation. To continue the rest of the installation, refer to [Cisco Media Gateway Controller Software Release 9.7 Installation and Configuration Guide](#) and [Cisco Billing and Measurements Server User's Guide, Release 3.30](#)

**Note**

When you complete the installation, the Kernel operating system version should be SunOS 5.10 Generic_127127-11. To verify the version, issue the command **uname -a**.
