

HP Tru64 UNIX

Release Notes for Version 5.1B-6

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About This Document

This document describes the issues you need to be aware of when you install and run Version 5.1B-6. It also describes significant new and changed features delivered in the HP Tru64 UNIX® Version 5.1B-6 kit and guides you to the available resources for maintaining the components included in this kit.

Audience

These release notes are for the person who installs the product and for anyone using the product following installation.

Organization

This document is organized as follows:

Chapter 1 “New Features in Version 5.1B-6”	Describes key new features, enhancements, and improvements delivered in Version 5.1B-6 in Version 5.1B-6”
Chapter 2 “Choosing and Installing the Software You Need”	Provides brief overviews of the CDs included in this kit and pointers to information you need to install the software.
Chapter 3 “Release Notes”	Provides information you need to be aware of when installing or removing this kit, as well as descriptions and workarounds for problems you might encounter on live systems.
Chapter 4 “Getting Help with Version 5.1B-6”	Provides information on resources for keeping your operating system up to date and obtaining the latest information about Tru64 UNIX and the TruCluster Server software.

Typographic Conventions

#	A number sign represents the superuser prompt.
<i>audit(5)</i>	A reference page. The reference page name is <i>audit</i> , and it is located in Section 5.
Command	A command name or qualified command phrase.
User input	Commands and other text that you type.
<i>Variable</i>	The name of a placeholder in a command, function, or other syntax display that you replace with an actual value.

Related Information

The following list includes information sources for installing and using this product:

- Hardware documentation for your system
- *Installation Guide* (available on the Documentation Library CD)
- *Installation Guide — Advanced Topics* (available on the Documentation Library CD)
- *Patch Kit Installation Instructions* (included on the Version 5.1B-6 CD)
- *Patch Summary and Release Notes* (included on the Version 5.1B-6 CD)
- Online reference pages
- *Technical Update* for Version 5.1B or higher for release note information not included in these notes. You can access the *Technical Update* from the following website:
<http://h30097.www3.hp.com/docs/updates/V51B/html/index.html>

HP Encourages Your Comments

HP welcomes any comments and suggestions you have on this and other Tru64 UNIX documents. You can send your comments using the following website:

<http://h30097.www3.hp.com/comments.html>

Include the document title, manufacturing part number, and any comments, errors found, or suggestion for improvement you have concerning this document.

1 New Features in Version 5.1B-6

This release contains only defect fixes. There are no new features or enhancements supported in this release.

Operating System Enhancements

This release contains only defect fixes. There are no new operating system enhancements in this release.

TruCluster Server Enhancements

This release contains only defect fixes. There are no new TruCluster server enhancements in this release.

Changes to Tru64 UNIX Products

The Tru64 UNIX media kit includes the Associated Product CDs, which delivers additional products and components to your Tru64 UNIX environment.

Many of these products and components are updated more frequently than the Tru64 UNIX operating system, HP makes these components available for download from the Tru64 UNIX Products website when new versions are available:

<http://h30097.www3.hp.com/products.html>

Check this website for updates to the Java™* products:

The following components are also available for download from the Tru64 UNIX Products website <http://h30097.www3.hp.com/products.html>:

- Insight Management Agents
- Printer definition files
- Thunderbird
- WEBES
- DECEvent
- Tru64 UNIX to HP-UX STK
- binaryscan
- hpuxman

Associated Product CDs

The following sections provide information on products and components that have been updated and included on Associated Product CDs (APCDs) Volume 1 and Volume 2.

ADCD Volume 1

The following product on the APCD Volume 1 has been updated.

Java™

The Java™ software has been updated to 1.4.2-9, which offers a full range of software products for the Java™ Platform. It provides solutions to develop or deploy Java applications with the best performance on HP AlphaServer running Tru64 UNIX, including Fast VM that provides Tru64 UNIX users with one of the fastest Virtual Machines available. Newer releases of Java 1.4.2 may be available for Tru64 UNIX as downloads from the HP Java website. Newer releases of Java 1.4.2 may be available for Tru64 UNIX as downloads from the HP Java website. For more information, see the HP Java website:

<http://www.hp.com/go/java>.

There are no product updates for APCD Volume 2.

Advanced Server for Tru64 UNIX

The ASU provides seamless interoperability between Tru64 UNIX servers, Windows NT® servers, and Microsoft® Windows® clients. Through the ASU software, Tru64 UNIX resources are available to Microsoft users without modification to their software, even allowing administration from Windows PC management utilities. For additional information about ASU and to download the most current release, visit the ASU Web page:

http://h30097.www3.hp.com/products/adv_server/index.html

Internet Express for Tru64 UNIX

Internet Express for Tru64 UNIX is a collection of popular Internet software combined with administration software developed by HP. It includes all of the Internet applications needed for an AlphaServer system to act as an Internet or intranet server.

Internet Express product provides many features and benefits, such as a collection of Internet software that has been tested and qualified on Tru64 UNIX, a web-based administration utility to manage internet services, an Internet Monitor that system administrators can use to monitor the performance of internet servers, and LDAP Module for System Authentication. All of the components can be configured to run in a TruCluster Server environment.

Internet Express also includes the Secure WebServer (powered by Apache) software developed by the Apache Software Foundation (<http://www.apache.org/>). You can use the Secure WebServer to create and manage a Web site on the Internet or an intranet.

Internet Express has recently been updated to Version 6.10, which updates 29 components. The following are the new features added:

Features added in Internet Express Version 6.9:

- Jabber – Extensible Messaging And Presence Protocol (XMPP) server.
- Nessus – Vulnerability scanner.

Features added in Internet Express Version 6.10:

- Stunnel – A program that allows you to encrypt arbitrary TCP connections inside SSL.
- Twiki – A flexible, powerful, and easy to use enterprise wiki.

For more information about any of the software or to download the software, visit the Internet Express Web site:

[Changes to Tru64 UNIX Products 9](#)

Packaging Changes

Packaging for Tru64 UNIX 5.1B-4 and higher releases have changed as follows:

- The Update Media Kit and Full Media Kit have been combined for the Version 5.1B-4 and higher releases. As a result of this change, the following books are no longer included in the kit:
 - *System Administration*
 - *Installation*
 - *Installation: Advanced Topics*
 - *Technical Overview*
 - *Cluster Technical Overview*

- *Documentation Overview*
- *Tru64 UNIX V5.1B Release Notes*

This documentation is available on the Documentation CD in this kit and is available on the Web at <http://h30097.www3.hp.com/docs/>. You can also order printed documentation.

- The Open Source Software Collection (OSSC) and the Linux Affinity Tools are no longer provided in the media kit, but are available from the Tru64 UNIX Web site at <http://h30097.www3.hp.com/>.

2 Choosing and Installing the Software You Need

This chapter provides a brief overview of the CDs included in this kit and points you to the information you need to install the software.

Overview of Version 5.1B-6 CDs

This kit contains six primary CDs. The following list describes the contents of these disks and tells you what you need to know to get your system up and running as quickly as possible:

- **Version 5.1B-6 CD**

This disk contains the problem fixes for version 5.1B-6. If your system is already running Version 5.1B or higher, installing the software on this disk will bring your operating system to Version 5.1B-6.

This disk updates the TruCluster Server software and internationalization subset to Version 5.1B-6 if those products are installed on your system.
- **Tru64 UNIX Version 5.1B Operating System CD**

This disk contains the Tru64 UNIX Version 5.1B operating system. You need to install the software on this disk if one of the following conditions exists:

 - Your operating system is not already running Tru64 UNIX Version 5.1B or higher.
 - You are installing Tru64 UNIX on a new system.

In earlier versions, this CD was labeled as "Operating System Volume 1 V5.1B". In the current release, this CD (part number 5011-6544) is labeled as "Operating System V5.1B".
- **Associated Products Volumes 1 and 2 CDs**

These disks contain software products that run on the Tru64 UNIX operating system. The customer letter included with this kit lists the products on these CDs, and the section in this document titled "Associated Product CDs" (page 7) describes which products have been updated for this release. Install the products that you want to access on your system or any of the updated products for which you want to run the latest versions.

The TruCluster Server software included on Volume 2 is Version 5.1B. If your system is already running the TruCluster software and you want to add the problem fixes included in Version 5.1B-6, install the software included on the Version 5.1B-6 CD.
- **Tru64 UNIX Version 5.1B Documentation Library CD**

This disk contains the documents that provide information for general users, system administrators, and programmers using the Tru64 UNIX system. If the Version 5.1B documentation set is already installed, do not install the software on this CD.

The Version 5.1B-6 CD installs all reference pages that have been updated since the Version 5.1B release if the reference page subset is installed on your system. The *Patch Summary and Release Notes* document included on the Version 5.1B-6 CD lists the reference pages that have been revised for this release and in previous Version 5.1B updates.
- **New Hardware Delivery-7 (NHD-7)**

This disk enables support for new hardware as described in the release notes included on the NHD-7 CD. Because the hardware support included in the NHD-7 kit has not changed since its initial release, you do not have to install the kit included with Version 5.1B-6 if you previously installed NHD-7. See the discussion on installing NHD-7 in "Installing the Software" (page 12) for additional information.

Installing the Software

The procedure you use to install the components of your kit depends on the current state of your system. The following list can get you started with the most common installation procedures:

- Installing on new, updated, or pre-installed operating systems
If this is a new or update (from a pre-Version 5.1B system) installation, or an installation that was preinstalled (called factory installed systems, or FIS), begin by reviewing the Tru64 UNIX *Installation Guide*. See Section 1.2 for FIS systems and Section 1.3 to determine the type of installation that best meets your needs.
To access the *Installation Guide*, install the Tru64 UNIX Documentation Library. The *Installation Guide* is included with the documentation set's System and Network Management Documentation library.
- Installing on a cluster
If you are installing on a cluster, start with Section 1.4 of the Version 5.1B *Installation Guide* for guidance in obtaining the information you need.
- Installing Version 5.1B-6
If you are updating your Version 5.1B system to Version 5.1B-6 and do not need to install the features provided on the New Hardware Delivery 7 CD, see "Accessing the Version 5.1B-6 CD" (page 12).
- Installing associated products
Appendix D of the Tru64 UNIX *Installation Guide* will help you install one or more of the associated products provided on the two Associated Products disks included with the Version 5.1B-6 kit.
- Installing the NHD kit
If you are installing the NHD-7 kit included with Version 5.1B-6, you do not have to separately install Version 5.1B-6 — that kit is installed as part of the NHD-7 installation procedure. See the NHD-7 *Release Notes and Installation Instructions* document included on the NHD-7 CD. You can access that document as follows:
 - For HTML format, point your browser to the following file (where *mount_point* is the CD mount point):
`file:/mount_point/DOC/02NHD712/TITLE.HTM`
 - For PDF format, open the file `DOC/nhd.pdf` using Adobe Acrobat Reader.

Accessing the Version 5.1B-6 CD

To mount the Version 5.1B-6 CD, follow these steps:

1. Log in as superuser.
2. Insert the CD into the CD drive and enter the following command:

```
# mount -r /dev/disk/cdromNa /mnt
```

In this command, N is the unit number of your CD device. If you do not know the unit number of your CD device, the following command will provide that information:

```
# ls /dev/disk/cdrom*
```

3. After the CD is mounted, read the information in the `00-READ-ME-FIRST` file as follows:

```
# cd /mnt/patch_kit  
# more 00-READ-ME-FIRST
```

From this directory you can also access the [Patch Kit Installation Instructions](#) using your browser (`PatchInstallGuide.htm`), Acrobat Reader (`PatchInstallGuide.pdf`), or

text reader (`PatchInstallGuide.txt`). This document will guide you through the steps to install this kit.

Accessing the Documentation CD

To read the Tru64 UNIX documentation on a Tru64 UNIX system, follow these steps:

1. Log in as superuser.
2. Insert the CD into the CD-ROM drive and mount it as follows:

```
# mount /dev/disk/cdromNa/usr/share/doclib/online
```

In this command, `N` is the unit number of your CD-ROM device. If you do not know the unit number of your CD device, the following command will provide that information:

```
# ls /dev/disk/cdrom*
```

Do not use a different mount point.

3. After the CD is mounted, you can access the documentation with a browser. For example, use the Netscape browser as follows:
 - From a terminal emulator window, start Netscape with the following command:

```
# /usr/bin/X11/netscape &
```
 - From the CDE front panel, click on **Application Manager** → **Desktop _apps** → **Netscape**.
4. After Netscape is running, click on its **Home** button. Netscape will load the Tru64 UNIX home page. Click on the link to the Tru64 UNIX Documentation page.

To read the Tru64 UNIX documentation on a Windows PC or a Macintosh system, insert the CD into the CD drive. If you are using a Windows system (except Windows 3.11, Windows NT 3.51, or earlier) the system should automatically open the Tru64 UNIX Documentation Library page in your default browser. If you are using a Macintosh or an earlier version of Windows or Windows NT, or if your PC does not automatically open the page, follow these steps:

1. When the system has mounted the CD, launch your browser.
2. Go to the browser's **File** menu and choose the **Open file...** item. (Depending on your browser, this item might say **Open...**, **Open File...**, or **Open file in Browser...**).
3. Choose the CD drive. In succession, open the `DOCS` and `HTML` folders. Then, in the `HTML` folder, open the `LIBRARY.HTM` file. This is your access to the Tru64 UNIX Documentation in HTML and PDF formats.

If you are viewing this documentation on a Windows 95 or higher system, you can use the AltaVista Search CD index that is included. Click on the search icon on the Tru64 UNIX Documentation Library HTML page, and follow the instructions that the browser displays.

3 Release Notes

This chapter provides release notes that are specific to Version 5.1B-6 and the TruCluster Server software product. “Installation Release Notes”, “Kit Removal Release Notes”, and “Cluster-Specific Installation and Removal Release Notes” provide information you need to be aware of when installing or removing Version 5.1B-6. “General Release Notes” describes issues you may encounter and, when available, provides workarounds you can use.

If you have not previously patched your Version 5.1B system, including upgrading to Versions 5.1B-1, 5.1B-2, or 5.1B-3, be sure to read the *Patch Summary and Release Notes* document included on the Tru64 UNIX CD, which provides additional release notes you should be aware of. See the *00-READ-ME-FIRST* file on the Version 5.1B-6 CD for information about accessing the *Patch Summary and Release Notes*. See also Chapter 4 (page 29) for information on viewing the *Patch Summary and Release Notes* on the Web.

Installation Release Notes

The following notes provide important information you need to be aware of before installing the Version 5.1B-6 kit.

Presence of Some Insight Management Agents Kits Might Require Additional Steps

The following installation-related release notes pertain to the Insight Management Agents. See “*Insight Manager Components Dump Core*” (page 26) for information about a potential problem with Insight Management Agents that can occur after Version 5.1B-5 is installed.

Some Insight Management Agents Kits Might Prevent Version 5.1B-5 or Higher Installation

It is recommended that any existing version of Tru64 UNIX Insight Management Agents kit (CQIMxxx kit, where xxx=310, 320, 370, and so on) must be uninstalled prior to 5.1B-5 or higher update and CPQIM370 kit with latest available CPQIM370 patches must be re-installed after 5.1B-5 or higher update. The CPQIM kit is available at the site:

<http://h30097.www3.hp.com/cma/>.

The CPQIM patches are available at:

<http://h30097.www3.hp.com/cma/patches.html>.

Under certain conditions, you will be prevented from installing Version 5.1B-5 or higher if you are running HP Insight Management Agents Version 3.1 or higher or a version of the kit was previously installed. Those conditions are as follows:

- Your system contains a pre-Version 5.1B-5 or higher kit and the Insight Management Agents kit.

In this case, upgrading to this kit gives the following error message:

```
Patch 29020.00 - SP07 OSFCLINET540 (SSRT5971 SSRT3653 SSRT2384 ...)
./sbin/init.d/snmpd: its origin can not be identified.
This patch will not be installed.
```

- Your system contains Patch Kit 2, Patch Kit 3, or Patch Kit 4, and the Insight Management Agents kit was once installed but has since been removed.

In this case, upgrading to Version 5.1B-5 or higher gives the following error message:

```
Patch 29020.00 - SP07 OSFCLINET540 (SSRT5971 SSRT3653 SSRT2384 ...)
./etc/pmgrd_iorate.config: does not exist on your system,
however, it is in the inventory of the installed subsets.
This patch will not be installed.
```

To work around this problem, run the `dupatch` baseline process before installing Version 5.1B-5 or higher. The following steps will guide you through the process:

1. Make a backup copy of the `/sbin/init.d/snmpd` script. For example:

```
# cp /sbin/init.d/snmpd /tmp
```

An alternative to backing up this file, in which you manually modify it, is provided following step 7.

2. Run the Version 5.1B-5 or higher `dupatch` utility and select Option 5, Patch Baseline Analysis/Adjustment.

See the [Patch Kit Installation Instructions](#) for detailed instructions.

3. After Phase 5 of the baseline procedure, answer `y` to the following question:

```
Do you want to enable the
installation of any of these patches? [y/n]: y
```

Phase 5 reports patches that do not pass installation applicability tests due to the current state of your system. The installation of Patch 29020.00 was prevented because of changed system files. The `dupatch` utility reports the known information about the files contained in each patch and asks if you want to enable the installation. Answering yes enables `dupatch` to install patches that were prevented from being installed due to unknown files.

4. Install Version 5.1B-5 or higher.
5. After the system is running with Version 5.1B-5 or higher installed, stop the `snmpd` and `insightd` daemons as follows:

```
# /sbin/init.d/snmpd stop
# /sbin/init.d/insightd stop
```

6. Replace the `/sbin/init.d/snmpd` script with the one you copied in step 1; for example:

```
# cp /tmp/snmpd /sbin/init.d /snmpd
```

7. Start the `snmpd` and `insightd` daemons as follows:

```
# /sbin/init.d/snmpd start
# /sbin/init.d/insightd start
```

If you did not back up the `/sbin/init.d/snmpd` file in step 1, you can modify it after you install Version 5.1B-5 or higher (step 4) and stop the `snmpd` and `insightd` daemons (step 5) as follows (the `XXX` represents the revision, such as `CPQIM370`):

1. Edit the line that reads `CPQMIBS=/usr/sbin/cpq_mibs` as follows:

```
CPQMIBS=/var/opt/CPQIMXXX /bin/cpq_mibs
```

2. Edit the line that reads `PMGRD=/usr/sbin/pmgrd` as follows:

```
PMGRD=/var/opt/CPQIMXXX/bin /pmgrd
```

3. Edit the line that reads `$PMGRD > /dev/console 2>&1 &` as follows:

```
$PMGRD ` $RCMGR get PMGRD_FLAGS ` > /dev/console 2>&1 &
```

V5.1B-5 or Higher Installation Might Overwrite snmpd File

When you install a newer version of the Insight Management Agents kit, the paths to the `cpq_mibs` and `pmgrd` subagents are changed in the `snmpd` script. By installing Version 5.1B-5

or higher the `snmpd` script is replaced by the original version provided in the base version of the Insight Management Agents kit.

It is recommended that any existing version of Tru64 UNIX Insight Management Agents kit (CPQIMxxx kit, where xxx=310, 320, 370, and so on) be uninstalled prior to Version 5.1B-5 or higher update and CPQIM370 kit with latest available CPQIM370 patches be re-installed after 5.1B-5 or higher update. The CPQIM kit is available at the site:

<http://h30097.www3.hp.com/cma/>.

The CPQIM patches are available at:

<http://h30097.www3.hp.com/cma/patches.html>.

If you do not wish to perform the above mentioned step, the following steps will have to be performed.

- You must restore the `snmpd` script to the latest version. To do this, create a backup file of the `snmpd` script, and restore the backup version after installing V5.1B-5 or higher. (See step 1 of the workaround described in *Some Insight Management Agents Kits Might Prevent Version 5.1B-5 or Higher Installation*).
- If you did not back up the `snmpd` file before installing V5.1B-6, you can modify the file after the installation, as described in *Some Insight Management Agents Kits Might Prevent Version 5.1B-5 or Higher Installation*.

Stop sendmail Before Installing Kit

Stop the `sendmail` mailer daemon before installing this kit. Failing to do so can lead to the loss of queued mail. Lost mail cannot be recovered.

To stop the daemon, enter the following command:

```
# /sbin/init.d/sendmail stop
```

Run Commands on BIND Systems After Kit Installation

After installing this kit on a system configured to be BIND server, run the following command:

```
# rcmgr set BIND_SERVERARGS "-c /etc/namedb/named.conf"
```

On a cluster configured to be a BIND server, run the following command:

```
# rcmgr -c set BIND_SERVERARGS "-c /etc/namedb/named.conf"
```

Stop the `named` daemon and restart it in order to have the new `named` daemon take effect:

- For standalone systems:

```
# /sbin/init.d/named stop  
# /sbin/init.d/named start
```

- For clusters:

```
# /sbin/init.d/named cluster_stop  
# /sbin/init.d/named start
```

To verify that your configuration files are compatible with Bind 9, run the following commands:

```
# named-checkconf /etc/namedb/named.conf  
# named-checkzone example.com /etc/namedb/hosts.db
```



NOTE: With BIND 9, CNAME entries no longer accept quotes. For example, "hosts-1" IN CNAME A needs to be changed to hosts-1 IN CNAME A.

inetd Daemon Restart Required

Because of changes made to the Internet services daemon introduced in this release, you need to stop and then restart `inetd` after installing or removing this kit. You can do this from the command line or by using the `sysman` application. From the command line, enter the following commands:

```
# /sbin/init.d/inetd stop
# /sbin/init.d/inetd start
```

Failure to do this results in an older version of `inetd` running on your system.

Kit Installation Causes Configuration File Restoration Failure

After installing this kit, attempts to restore the configuration file (`config.cdf`) saved prior to the installation of this patch will fail due to a checksum error. You can, however, force the operation by using the following `sysman` command:

```
# sysman -clone -apply -force config.cdf
```

For more information, see the note titled *Correction to Configuration Cloning Restrictions* in the "Corrections to Manuals" section of the online Technical Updates document for Version 5.1B. The following link takes you to the Technical Updates document:

<http://h30097.www3.hp.com/docs/updates/V51B/html/index.html>

Run ipsec Command After Installing Kit

If you are running IP Security (`ipsec`) on your system, run the following command after installing this kit to determine if any unsafe connections exist:

```
# /usr/sbin/sysman ipsec
```

A warning message alerts you to potential problems.

Update lprsetup.dat File When Using printconfig

If you use the `/usr/sbin/printconfig` application to configure printer queues, run the following command as root to update the `/etc/lprsetup.dat` file:

```
# /usr/sbin/lprsetup -c update
```

AdvFS Domain Differences Can Affect Version Upgrades

A difference in the structure of Version 5.1A and early 5.1B AdvFS domains versus later V5.1B domains can cause a problem when upgrading to Version 5.1B-4.

This potential problem involves a metadata file, called the RBMT, that exists on each volume of a Version 4 domain.

Although an RBMT is generally only one page long, it can be longer on large volumes or domains that have many files. If an RBMT file was larger than one page under 5.1A or an early 5.1B version and then grows again after a system upgrade to 5.1B-4, the RBMT file can cause any command that tries to activate that domain to fail. This includes mounting filesets from the affected domain.

Following a system upgrade to Version 5.1B-6 the problem can occur after all the filesets in a domain are unmounted. (The problem does not occur as long as the filesets remain mounted.)

The solution is to use the `fixfdmn` utility to correct the problem. For example:

```
# /sbin/advfs/fixfdmn domain_name
fixfdmn: Checking the RBMT.
fixfdmn: Clearing the log on volume /dev/disk/dsk10c.
fixfdmn: Checking the BMT mcell data.
fixfdmn: Checking the deferred delete list.
fixfdmn: Checking the root tag file.
fixfdmn: Checking the tag file(s).
fixfdmn: Checking the mcell nodes.
fixfdmn: Checking the BMT chains.
fixfdmn: Checking the frag file group headers.
fixfdmn: Checking for frag overlaps.
fixfdmn: Checking for BMT mcell orphans.
fixfdmn: Checking for file overlaps.
fixfdmn: Checking the directories.
fixfdmn: Checking the frag file(s).
fixfdmn: Checking the quota files.
fixfdmn: Checking the SBM.
fixfdmn: Completed.
```

You can use this command proactively before the RBMT grows to prevent the problem from occurring, or you can use it after the problem occurs.

In summary, the following domains are not in danger:

- Version 3 domains
- Domains created under Version 5.1B-6
- Domains with RBMT files that are not longer than one page

The `showfile` and `showdmn` commands can provide information about your domains.

Use the `showdmn` command to find out what volumes a domain has. For example:

```
# /sbin/showfdmn domain_name
      Id                Date Created  LogPgs  Version  Domain Name
447350cd.000eba90  Tue May 23 11:13:33 2006     512      4  domain_name

Vol   512-Blks      Free  % Used  Cmode  Rblks  Wblks  Vol Name
 1L   71132000    71121632    0%    on    256   256  /dev/disk/dsk4c
```

Use the `showfile` command to determine if an RBMT file has more than one page. To do this, select any mounted fileset from the domain in question, find the mount point for the fileset, and enter the following command. (Note that `.tags/M-6` represents volume 1. Subsequent volumes are incremented by a factor of six, so that volume 2 uses `.tags/M-12`, volume 3 uses `.tags/M-18`, and so on.) For example:

```
# /usr/sbin/showfile mountpoint/.tags/M-6
      Id  Vol  PgSz  Pages  XtntType  Segs  SegSz  I/O  Perf  File
fffffffa.0000    1    16     1    simple   **    **  ftx  100%  M-6
```

See the `fixfdmn(8)`, `showfile(8)`, and `showfile(8)` reference pages for information about using these commands.

Possible Errors Seen After Kit Installation

The following problems have been known to occur after Version 5.1B-4 has been installed:

- The Common Data Security Architecture (CDSA), IP Security Protocol (IPsec), or Single Sign-On (SSO) do not work.
- The following error message is displayed during boot time:

```
CSSM_ModuleLoad: CSSM error 4107
```

If you experience these problems, make sure that the following command line has been executed:

```
# /usr/sbin/cdsa/mod_install -f -i -s \  
/usr/lib/cdsa/libt64csp.so -d /usr/lib/cdsa/
```

Message Seen During Reboot Can Be Ignored

The following error message is displayed after you reboot your system the first time after installing Version 5.1B-4 or higher:

```
AllowCshrcSourcingWithSubsystems is not valid  
ForcePTYAllocation is not valid  
IdentityFile is not valid  
AuthorizationFile is not valid
```

These messages are caused by a new version of SSH included in Version 5.1B-6 They do not pose a problem and can be ignored.

Kit Removal Release Notes

The following sections describe actions you have to take if you decided to uninstall Version 5.1B-4 or higher. Read each section before running the patch deletion procedure.

Some Patch Kits Cannot Be Removed

You cannot remove a patch kit on systems that have the New Hardware Delivery-7 (NHD-7) kit installed when either of the following conditions exist:

- The patch kit you want to remove was installed before the NHD kit.
For example, if you installed Patch Kit 2 and then installed NHD-7, you cannot remove that patch kit. However, if you later installed Patch Kit 4, you can remove that patch kit.
- The patch kit was installed with NHD-7.
Beginning with the release of Patch Kit 3, patch kits were incorporated into the NHD-7 kits. As a result, when you installed NHD-7, you automatically installed the current patch kit. These patch kits cannot be removed. However, you can remove any subsequent patch kits. For example, if you installed NHD-7 with Patch Kit 4 and later installed Patch Kit 5, you cannot remove Patch Kit 4, but can remove Patch Kit 5.

If you must remove the patch kit, the only solution is to rebuild your system environment by reinstalling the Version 5.1B operating system and then restoring your system to its state before you installed NHD-7 with the unwanted patch kit.

Changes to System Might Need to Be Reversed

If you made the following changes to your system after installing this patch kit, you have to undo those changes before you can uninstall it:

- If you changed your hardware configuration (for example, by adding a new disk), the system configuration that existed prior to installing this patch kit might not recognize the new devices or might not provide the necessary support for them.
- If you added new cluster members, the new members will not have an older state to revert to if you attempt to uninstall this patch kit.

To uninstall this kit, do the following:

1. Remove all new hardware and new cluster members that you added after installing this kit.
2. Run `dupatch` to uninstall the patch kit.
3. Verify that the patch kit was successfully uninstalled.

You can now add the cluster members you removed and reinstall the hardware you removed, as long as the support for it existed in the prepatched system. You can also reinstall the patch kit.

Script Must Be Run When Returning to Prepatched System

If removing this patch kit restores your system to a prepatched state, you must run the `/etc/dn_fix_dat.sh` script before rebooting your system during the patch-deletion process.

This situation occurs if Version 5.1B-2, or higher, is the only Tru64 UNIX patch kit installed on your 5.1B system.



NOTE: Because the no-roll procedure automatically reboots the system after deleting the patches, you cannot use this method to delete this patch kit if doing so returns your system to a prepatched state.

Failing to run this script results in your system being unable to boot normally. If this occurs, do the following:

1. Boot your system in single-user mode:

```
>>> boot -fl s
```

2. Run the `dn_fix_dat.sh` script:

```
# /etc/dn_fix_dat.sh
```

3. Reboot normally.

If you also need to reverse the version switch as described in “Script Required to Reverse Version Switch”, run the `/etc/dn_fix_dat.sh` script after step 5 in that process.

Because the no-roll procedure automatically boots your system, you cannot use that patch kit removal method if doing so would restore your system to a prepatched state



NOTE: If during the `dupatch` installation and deletion processes you see a Special Instruction about running the `/etc/dn_fix_dat.sh` script, you should ignore that instruction unless your system meets the requirement described here.

Cluster-Specific Installation and Removal Release Notes

This section provides information you need to be aware of if you are installing or removing patch kits from a TruCluster Server environment.

Extract dupatch Tools Before Cloning

When beginning a cloning process, first mount the Version 5.1B-6 CD (or extract the kit if downloaded from the Web) to your Version 5.1B-5 system and run the `dupatch` command to install the necessary cloning tools. See the [Patch Kit Installation Instructions](#) document for information about installing the latest `dupatch` tools.

dupclone Error Message Can Be Ignored

Installing this kit using the `dupclone` process on systems that do not have all of the operating system and TruCluster Server base subsets installed might result in a messages similar to the following to be displayed:

```
Problem installing:
```

```
- Tru64_UNIX_V5.1B:  
  Patch 29034.00
```

```
requires the existence of the following un-installed/un-selected subset(s):
```

```
- Tru64_UNIX_V5.1B:  
  Patch 29023.00
```

```
- Tru64_UNIX_V5.1B:  
  Patch 29050.00 . . .
```

You can ignore this message. In all cases, the subsets are installed correctly.

Installed CSP Might Affect dupatch Cloning Process

If you have installed customer-specific patches (CSPs) on your system, you might see a message similar to the following when installing this kit using the `dupatch` cloning process, at which time the cloning process is terminated:

```
Inspecting 69 patches for possible system conflicts ...
./usr/bin/ls:
    is installed by Customer Specific Patch (CSP):
- Tru64_UNIX_V5.1B / Installation Patches:
  Patch 01682.00 - Fix for dupatch command

    and can not be replaced by this patch. To install this patch,
    ideally, you must first remove the CSP using dupatch.
    Before performing this action, you should contact your
    HP Service Representative to determine if this patch kit
    contains the CSP. If it does not, you may need to obtain a new
    CSP from HP in order to install the patch kit and retain the
    CSP fix. Or, you may use dupatch baselining to enable the
    patch installation.
```

The recommended action is to perform `dupatch` baselining on your existing system to enable the patch installation process and retain the CSP on your system. Removing the CSP (as mentioned in the message) could eliminate the fixes made by that CSP.

After running the baselining process on your existing system, you need to begin the cloning process from the beginning by reduplicating your system on an alternate set of disks and rerunning the `dupatch` cloning process. See the [Patch Kit Installation Instructions](#) for information about performing baselining and about the patch cloning process.

Migrating a Patched Standalone System to a Cluster

Installing only the base patches on a noncluster system omits various patches (including some security patches) because of dependencies on TruCluster Server patches. Such patches are not needed on standalone systems. However, if the standalone system is then clustered using the `clu_create` command and you attempt to apply the cluster patches, many patches fail with errors because some prerequisite patches failed.

These errors do not necessarily indicate that the patch process has failed, but they are numerous, can be confusing and might obscure genuine errors.

The preferred procedure for adding a standalone system into a cluster is as follows:

1. Reinstall the operating system on the standalone system.
2. Run the `clu_create` command and bring up the standalone system as a cluster node.
3. Apply all base and cluster patches.

Disable vfast Utility If Running on Cluster Domains

If the `vfast` utility is running on the TruCluster domains `cluster_root` and `cluster_var`, deactivate it on the domains before installing or removing this kit. To deactivate `vfast` on the two domains, use the following command:

```
# vfast deactivate cluster_root
# vfast deactivate cluster_var
```

See the `vfast(8)` reference page for more information.

Creation of Some MFS File Systems Depends on Version Switch

During the installation of this kit, MFS file systems that are 4 GB and larger (or 2 GB and larger if a 1024-byte sector size is used) cannot be created until after the version switch is thrown. See the [Patch Kit Installation Instructions](#) for information about the version switch.

Workaround Saves Files to Enable Patch Kit Removal

If you upgrade the operating system and install a patch kit within the same roll, the contents of the patch backups are inadvertently removed. The result is that the patches most recently installed cannot be removed because the backups are missing.

The following procedure saves then restores backups so they are available if you later decided to remove the patch kit:

1. Create backup files of the `/backup` and `/doc` directories after the `postinstall` step (`clu_upgrade postinstall`) as follows:

```
# cd /var/adm/patch/backup
# tar cvf /var/adm/patch/BACKUP.tar *
# cd /var/adm/patch/doc
# tar cvf /var/adm/patch/DOC.tar *
```

2. After the switch step (`clu_upgrade switch`) untar the files you created in step 1:

```
# cd /var/adm/patch/backup
# tar xvf /var/adm/patch/BACKUP.tar
# cd /var/adm/patch/doc
# tar xvf /var/adm/patch/DOC.tar
```

This restores the files under the following directories:

- `/var/adm/patch/backup`
- `/var/adm/patch/doc`

Enabling the Version Switch After Installation

Some patches require you to run the `versw -switch` command to enable the new functions delivered in those patches. (See the [Patch Kit Installation Instructions](#) for information about version switches.) Enter the command as follows after `dupatch` has completed the installation process:

```
# versw -switch
```

The new functionality is not available until after you reboot your system. You do not have to run the `versw -switch` command, but if you do not, your system cannot access the functionality provided in the version-switch patches.

Script Required to Reverse Version Switch

If you enabled version switches as described in “Enabling the Version Switch After Installation”, you must run the `/usr/sbin/versw_enable_delete` script before attempting to remove Version 5.1B-4. The steps for running this script require a complete cluster or single system shutdown, so choose a time when a shutdown has the least impact on your operations. The following steps describe the procedure:

1. Make sure that all phases of the installation process have been completed.
2. Run the `/usr/sbin/versw_enable_delete` script:

```
# /usr/sbin/versw_enable_delete
```
3. Shut down the entire cluster or the single system.
4. Reboot the entire cluster or the single system.

5. Run `dupatch` on your single system or on a cluster using the rolling upgrade procedure to delete Version 5.1B-5 (as described in the [Patch Kit Installation Instructions](#)), up to the point where the kernel is rebuilt and the system must be booted.
6. Reboot the single system or each member of the cluster.



NOTE: This step requires that you reboot each cluster member to remove Version 5.1B-6. Because the no-roll procedure automatically reboots the system after deleting the patches, you cannot use that method to remove the kit.

Restriction on Using No-Roll Procedure to Remove Kit

The section titled “Script Must Be Run When Returning to Prepatched System” describes actions you need to take before rebooting your system if removing this kit would restore your system to a pro-patched state. Because the no-roll procedure automatically boots your system, you cannot use that patch kit removal method if doing so would restore your system to a pre-patched state

Do Not Install Prior NHD Kits on a Patched System

Do not install the NHD-5 or NHD-6 kits on your TruCluster Server system if you have installed this patch kit or earlier patch kits. Doing so might cause an incorrect system configuration. The installation code for these new hardware delivery kits does not correctly preserve some cluster subset files.

General Release Notes

The release notes in this section describe issues you might encounter and, when available, provide workarounds you can use.

`netstat` Read Error on Structures in a Live System

When trying to read a structure, the `netstat ()` command displays the following message:

```
netstat:  
read from /dev/kmem: No such device or address
```

This can result from `netstat` reading structures which are dynamically undergoing change on a live system. This is a transient problem that will be reported to the user.

Version 5.1B-6 Kit Requires Uninstallation of Internet Express System Authentication LDAP Module (IAELDAMXXX)

The Version 5.1B-6 patch kit installation fails if the Internet Express System Authentication LDAP Module (IAELDAMXXX) is installed on the system. To install the Base OS Version 5.1B-6 patch kit, perform the following steps:

1. Uninstall the *Internet Express System Authentication LDAP Module (IAELDAMXXX)*. For example,

```
setld -d IAELDAMXXX
```

where, XXX stands for the IAELDAM version.
2. Install the Base OS V5.1 B-5 patch kit.
3. Install the *Internet Express System Authentication LDAP Module (IAELDAMXXX)*. For example:

```
setld -l IAELDAMXXX
```

where, XXX stands for the IAELDAM version.

Tru64 UNIX Rebranding Results in File Changes

As a consequence of the rebranding of Tru64 UNIX from the Compaq name to HP, the following files have changed:

- `version.abbrev_vendor` from COMPAQ to HP
- `version.banner` from Compaq Tru64 UNIX to HP Tru64 UNIX
- `version.vendor` from Compaq Computer Corporation to Hewlett-Packard Company

The `.mrg..sysconfigtab` file has been modified to incorporate these changes into the generic `sysconfig` subsystem in the `/etc/sysconfigtab` file.

If the rebranding of HP Tru64 UNIX version information impacts any applications or layered products, you can manually change generic system version attributes. See the `sysconfigtab(4)` and `sys_attrs_generic(5)` reference pages for more information on how to modify generic system version attributes.

Possible Performance Slowdown of Oracle 8.1.7 after Tru64 UNIX Rebranding

When kernel profiling and auditing were run on Oracle, under Version 5.1B-3 lots of Asynchronous I/O + Direct I/O calls were seen. However, under Version 5.1B-4 no Asynchronous I/O + Direct I/O calls (other than aio setup calls) were seen.

If this behaviour is seen on your system, you can modify `/etc/sysconfigtab` under `generic` to change:

```
version_banner = HP Tru64
UNIX version_avendor = HP version_vendor = Hewlett-Packard Company
to version_banner = Compaq Tru64 UNIX version_avendor = COMPAQ version_vendor
= Compaq Computer Corporation
```

Then reboot Version 5.1B-4 and check the Oracle performance.

Error on Installing Japanese Advanced Printing Software Subsets

The following error messages are displayed when you install the IOSJPAPXBASE540 and IOSJPAPXGUI540 subsets onto the system-installed APXBASE122 and APXGUI122 subsets:

```
Loading subset 1 of 2 ...
setld: Error installing Japanese Advanced Printing Software BASE and Client Commands
(IOSJPAPXBASE540)
This subset requires one or more additional subsets to operate correctly.
The following subsets are required:
    "" (APXBASE120)
Please install required subsets first.

Loading subset 2 of 2 ...
setld: Error installing Japanese Advanced Printing Software Graphical User Interface
(IOSJPAPXGUI540)
This subset requires one or more additional subsets to operate correctly.
The following subsets are required:
    "" (APXGUI120)
    "Japanese Advanced Printing Software BASE and Client Commands" (IOSJPAPXBASE540)
Please install required subsets first.
```

These errors are caused by a dependency of the Japanese Advanced Printing Software subsets on the corresponding original Advanced Printing Software subsets APXBASE120 and APXGUI120, despite the changed subset names of APXBASE122 and APXGUI122 in APCD1 for the V5.1B-5 release.

You can avoid these errors by creating `APXBASE120.lk` and `APXGUI120.lk` files in the `/usr/.smdb.` directory temporarily after installing APXBASE122 and APXGUI122 as following:

1. Log in as root and enter the following commands:

```
# cd /usr/.smdb.
# touch APXBASE120.lk APXGUI120.lk
```
2. Install the IOSJPAPXBASE540 and IOSJPAPXGUI540 subsets.
3. Remove `APXBASE120.lk` and `APXGUI120.lk`.

Authentication Choice Affects sftp Transfer Rate

The performance of secure FTP (`sftp`) will be always less than `ftp` due to the authentication and encryption involved in `sftp` communication. The transfer rate of `sftp` depends on the type of authentication it employs. You can achieve better transfer rate performance by choosing the Message Authentication Code (MAC) algorithm `hmac-md5` for authentication, but at the cost of security. The default MAC is `hmac-sha1`, which is more secure than `hmac-md5`. See `sftp(1)` for information about secure FTP and `ssh2_config(4)` for information about supported MACs and ciphers.

Insight Manager Components Dump Core

Some Insight Manger components included in Tru64 UNIX Version 5.1B-6, such as `cpq_mibs` and the `config_hmmod` and `sysman_hmmod` daemons, might core dump during reboots.

You can correct this problem by installing the latest version of the Insight Manager, Version 3.7. You can download this version from the HP Insight Management Agents for Tru64 UNIX Web site:

<http://h30097.www3.hp.com/cma/>

If you have not installed Version 3.7 and the Insight Manager processes do not run after you reboot your system, restart them using the Insight Manger startup scripts.

Autoloader Firmware Upgrade Changes WWID

A firmware upgrade to v1.50 or N14r on the 1x8 Autoloader causes the WWID to change. As a result, the existing device associated with the media changer is no longer accessible. For complete details see the Customer Advisory available at:

<http://h30097.www3.hp.com/unix/erp/c00753663.html>

Smart Array Booting Problem Might Require Service Call

If when booting your system you see a message similar to the following, rebooting your system may be able to re-enable the hardware:

```
Smart Array at ciss(1)not responding - disabled.
```

If the reboot fails, call your HP service representative to have the unit repaired.

Do Not Use dxarchiver to Verify Bootable Tape

Do not use `dxarchiver` command to verify a bootable tape. Instead, use the `mt` and `restore` commands as follows:

```
# mt fsf 1
# restore -i <device>
```

The first command skips the first file on the tape.

When preparing for a `btcreate` session, verify the size of the file system to ensure that you have sufficient tape volumes, depending on the maximum storage capacity of your tape device. The `btcreate` command prompts you to load a new tape volume if it runs out of storage space. Label the tapes in sequence.

securenets File Requires localhost Entry

If the `/var/yp/securenets` file is in use as part of NIS, it must contain the following localhost entry:

```
255.255.255.255      127.0.0.1
```

If the `/var/yp/securenets` file is used without a localhost entry, you will see severe delays on logins. See `ypserv(8)` for more information.

SIA sialog Use Limitation Required

The Security Integration Architecture (SIA) `sialog` logging process is intended only for use in debugging SIA problems. It should not be enabled for extended periods of time. Doing so can cause login delays or other problems.

Use the `audit`, not the `sialog` process

, subsystem to monitor authentications on the system.

To disable `sialog` debug logging, delete the `/var/adm/sialog` file. For more information, see the `sialog(4)` and `sia_log(3)` reference pages and the *Tru64 UNIX Security Programming* document.

4 Getting Help with Version 5.1B-6

This chapter points you to resources available to help you keep your operating system up to date and obtain the latest information about Tru64 UNIX and the TruCluster Server software.

Accessing Release Notes from Earlier Version 5.1B Kits

Because the post-Version 5.1B kits are cumulative, the Version 5.1B-6 kit includes all of the fixes, features, and changes that have been added since the release of Version 5.1B. This information is provided in the *Patch Summary and Release Notes* document for Version 5.1B-6 at:

<http://h30097.www3.hp.com/docs/patch/51B/bl29/HTML/rn-bl29.html>

This document provides a summary of all changes to the operating system and TruCluster Server software delivered in Version 5.1B-6ok. and prior patch kits.

Patch Summary and Release Notes documents for prior Version 5.1B patch kits are available at:

<http://h30097.www3.hp.com/docs/patch/>

Accessing Release Notes in the Online Technical Updates Document

In addition to the release notes included in this document and the online *Patch Summary and Release Notes*, HP provides an online document named *Technical Updates for the Version 5.1B and Higher Operating System and Patches* to provide information about issues and problems that have been discovered since the release of the HP Tru64 UNIX Version 5.1B operating system.

You can see this document at:

<http://h30097.www3.hp.com/docs/updates/V51B/html/index.html>

Tru64 UNIX on the World Wide Web

For access to the latest products and solutions, the most recent QuickSpecs, and other information about the Tru64 UNIX operating system, visit the Tru64 UNIX Web site at:

<http://www.hp.com/go/tru64unix/>

You might also find the following sites useful:

- Operating system and TruCluster Server software patch kits and the NHD kit are available at:

<http://www2.itrc.hp.com/service/patch/mainPage.do>

- For early release patches (ERPs), go to:

<http://h30097.www3.hp.com/unix/EarlyReleasePatch-download.html>

- For patch-related documentation, go to:

<http://h30097.www3.hp.com/docs/patch/>

- To visit our Business Support Center, go to:

<http://h20000.www2.hp.com/bizsupport/TechSupport/Home.jsp>

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