

# Tru64 UNIX 5.0A and TruCluster 5.0A

## Patch Summary and Release Notes for Patch Kit-0002

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**October 2000**

This manual describes the release notes and contents of Patch Kit-0002. It provides special instructions for installing individual patches.

For information about installing or removing patches, baselining, and general patch management, see the document called *Patch Kit Installation Instructions*.

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# Contents

## About This Manual

### 1 Release Notes

1.1	Required Storage Space .....	1-1
1.2	New dupatch Features .....	1-2
1.2.1	Patch Installation from Multiuser Mode .....	1-2
1.2.2	Automatic Kernel Build .....	1-2
1.2.3	Patch Installation from a Pseudo-Terminal .....	1-2
1.3	Release Note for Tru64 UNIX Patch 75.00 .....	1-2
1.4	Release Note for TruCluster Server .....	1-3

### 2 Summary of Base Operating System Patches

### 3 Summary of TruCluster Software Patches

#### Tables

2-1	Updated Base Operating System Patches .....	2-1
2-2	Summary of Base Operating System Patches .....	2-2
3-1	Updated TruCluster Software Patches .....	3-1
3-2	Summary of TruCluster Patches .....	3-1



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# About This Manual

This manual contains information specific to Patch Kit-0002 for the Tru64™ UNIX 5.0A operating system and TruCluster™ 5.0A software products. It provides a list of the patches contained in each kit and describes the information you need to know when installing specific patches.

For information about installing or removing patches, baselining, and general patch management, see the *Patch Kit Installation Instructions*.

## Audience

This manual is for the person who installs and removes the patch kit and for anyone who manages patches after they are installed.

## Organization

This manual is organized as follows:

*Chapter 1* Contains the release notes for this patch kit.

*Chapter 2* Summarizes the Tru64 UNIX operating system patches included in the kit.

*Chapter 3* Summarizes the TruCluster software patches included in the kit.

## Related Documentation

In addition to this manual, you should be familiar with the concepts and mechanisms described in the following Tru64 UNIX and TruCluster documents:

- Tru64 UNIX and TruCluster *Patch Kit Installation Instructions*
- Tru64 UNIX *Installation Guide*
- Tru64 UNIX *System Administration*
- TruCluster Server *Software Installation*
- TruCluster Server *Administration*
- Release-specific installation documentation

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- The section numbers and page numbers of the information on which you are commenting.
- The version of Tru64 UNIX that you are using.
- If known, the type of processor that is running the Tru64 UNIX software.

The Tru64 UNIX Publications group cannot respond to system problems or technical support inquiries. Please address technical questions to your local system vendor or to the appropriate Compaq technical support office. Information provided with the software media explains how to send problem reports to Compaq.

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## Release Notes

This chapter provides important information that you need in order to work with the Tru64 UNIX 5.0A and TruCluster 5.0A Patch Kit-0002.

### 1.1 Required Storage Space

The following storage space is required to successfully install this patch kit:

#### Base Operating System

- Temporary Storage Space

A total of ~250 MB of storage space is required to untar this patch kit. Compaq recommends that this kit not be placed in the `/`, `/usr`, or `/var` file systems because doing so may unduly constrain the available storage space for the patching activity.

- Permanent Storage Space

Up to ~35 MB of storage space in `/var/adm/patch/backup` may be required for archived original files if you choose to install and revert all patches. See the *Patch Kit Installation Instructions* for more information.

Up to ~35 MB of storage space in `/var/adm/patch` may be required for original files if you choose to install and revert all patches. See the *Patch Kit Installation Instructions* for more information.

Up to ~150 KB of storage space is required in `/var/adm/patch/doc` for patch abstract and README documentation.

A total of ~152 KB of storage space is needed in `/usr/sbin/dupatch` for the patch management utility.

#### TruCluster Server

- Temporary Storage Space

A total of ~250 MB of storage space is required to untar this patch kit. Compaq recommends that this kit not be placed in the `/`, `/usr`, or `/var` file systems because doing so may unduly constrain the available storage space for the patching activity.

- Permanent Storage Space

Up to ~41 MB of storage space in `/var/adm/patch/backup` may be required for archived original files if you choose to install and revert all patches. See the *Patch Kit Installation Instructions* for more information.

Up to ~44 MB of storage space in `/var/adm/patch` may be required for original files if you choose to install and revert all patches. See the *Patch Kit Installation Instructions* for more information.

Up to ~374 KB of storage space is required in `/var/adm/patch/doc` for patch abstract and README documentation.

A total of ~152 KB of storage space is needed in `/usr/sbin/dupatch` for the patch management utility.

## 1.2 New dupatch Features

Beginning with Revision 26-02 of `dupatch`, this patch tool utility has been enhanced to provide new features, as described in the following sections. For more information, see the *Patch Kit Installation Instructions*.

### 1.2.1 Patch Installation from Multiuser Mode

You can now install patches when a system is in multiuser mode.

There are no restrictions on performing patch selection and preinstallation checking in multiuser mode.

Although you can now install patches in multiuser mode, Compaq recommends that you bring down your system to single-user mode when you install patches that affect the operation of the Tru64 UNIX operating system (or the product you are patching). If your system must remain in multiuser mode, we recommend that you apply the patches when the system is as lightly loaded as possible.

### 1.2.2 Automatic Kernel Build

If the patches that are installed indicate that a kernel build is required, `dupatch` will initiate the kernel build automatically.

Most times a reboot is required to complete the installation and bring the system to a consistent running environment. Certain file types, such as libraries, are not moved into place until you reboot the system.

When installing patches in multiuser mode, you can take one of three options after the kernel build is complete:

- Reboot the system immediately.
- Reboot the system at a specified time.
- Do not reboot the system.

### 1.2.3 Patch Installation from a Pseudo-Terminal

You can now install patches on the system from a pseudo-terminal (pty) while in single-user mode. To do this, log in to the system as root from a remote location and specify that the patches are to be installed in single-user mode. After all the patch prerequisites are completed, the system goes into single-user mode while it maintains the network connection for the root user. The system then installs the patches.

## 1.3 Release Note for Tru64 UNIX Patch 75.00

SysMan Station does not dynamically update changes to a device name. If you use `dsfmgr(8)` to change the `base_name` of a device while `smsd(8)` is running, any SysMan Station clients that connect to the running `smsd(8)` will reflect the old `base_name` in their views.

To obtain a correct view, restart the SysMan Station daemon `smsd(8)` by performing the following steps. If you are on a cluster, perform these steps on all affected cluster members.

1. Close all open SysMan Station client sessions.
2. Enter the following command:

```
# /sbin/init.d/smsd restart
```



## 1.4 Release Note for TruCluster Server

If you are installing only TCR patches, you **MUST** rebuild the kernel and reboot the machine for the changes to take effect. If removing only TCR patches, you **MUST** also rebuild the kernel and reboot the machine for the changes to take effect.



## Summary of Base Operating System Patches

This chapter summarizes the base operating system patches included in Patch Kit-0002.

Table 2–1 lists patches that have been updated.

Table 2–2 provides a summary of patches.

**Table 2–1: Updated Base Operating System Patches**

Patch IDs	Change Summary
Patches 116.00, 118.00, 120.00, 122.00, 124.00, 126.00, 128.00, 130.00, 132.00, 134.00, 150.00, 152.00, 163.00, 165.00, 172.00, 176.00, 178.00, 180.00, 182.00, 184.00, 192.00, 194.00, 196.00, 200.00, 202.00, 207.00, 209.00, 213.00	New
Patches 13.00, 24.00, 39.00, 40.00, 92.00, 52.00, 87.00, 104.00, 105.00, 106.00, 107.00, 108.00, 109.00, 110.00, 111.00, 112.00	Superseded by Patch 114.00
Patch 80.00	Superseded by Patch 126.00
Patches 28.00, 29.00, 43.00, 49.00, 55.00, 56.00, 58.00, 16.00, 17.00, 18.00, 93.00, 88.00, 94.00, 96.00, 135.00, 136.00, 137.00, 138.00, 139.00	Superseded by Patch 141.00
Patches 91.00, 142.00, 143.00, 144.00, 145.00, 146.00	Superseded by Patch 148.00
Patch 54.00	Superseded by Patch 154.00
Patches 26.00, 101.00, 155.00	Superseded by Patch 157.00
Patches 45.00, 46.00, 44.00, 82.00, 102.00	Superseded by Patch 159.00
Patches 4.00, 5.00, 6.00, 7.00	Superseded by Patch 167.00
Patches 168.00	Superseded by Patch 170.00
Patch 9.00	Superseded by Patch 174.00
Patches 85.00, 103.00	Superseded by Patch 186.00
Patch 78.00	Superseded by Patch 188.00
Patches 48.00, 77.00	Superseded by Patch 190.00
Patch 30.00	Superseded by Patch 198.00
Patch 203.00	Superseded by Patch 205.00
Patch 50.00	Superseded by Patch 211.00
Patches 59.00, 161.00	Superseded by Patch 215.00
Patch 84.00	Superseded by Patch 217.00

**Table 2–2: Summary of Base Operating System Patches**

Patch IDs	Abstract
Patch 1.00 OSF505CDE-001	<b>Patch:</b> CDE does not recreate list of application groups <b>State:</b> Existing This patch fixes a problem where the Common Desktop Environment (CDE) Application Manager did not recreate the list of application groups at login. After customizing the application groups, users would see the old groups instead of the new groups.
Patch 2.00 OSF505DX-002	<b>Patch:</b> Compaq SNMP subagent core dumps <b>State:</b> Existing This patch fixes a problem that causes Compaq SNMP subagent (cpq_mibs) to coredump at boot-up time or when being reinvoked, which results in an invalid display of information on Insight Manager web pages.
Patch 3.00 OSF505DX-003	<b>Patch:</b> Fixes automount problem <b>State:</b> Existing This patch fixes a problem that occurs when restarting all NFS daemons with the automount argument set to empty.
Patch 8.00 OSF505X11-001	<b>Patch:</b> Provides missing compose definitions for ISO8859-15 <b>State:</b> Existing This patch provides missing compose definitions in ISO8859-15-based locales for scaron, Scaron, zcaron, and Zcaron characters.
Patch 10.00 OSF505X11-003A	<b>Patch:</b> Fixes a problem with the svn widget of libDXm.so <b>State:</b> Existing This patch fixes a problem in which the svn widget of libDXm.so creates identical backgrounds and foregrounds.
Patch 11.00 OSF505X11-004	<b>Patch:</b> Fix for lbxproxy utility <b>State:</b> Existing This patch fixes a problem where the X windows lbxproxy utility that is used to make Low Bandwidth X (LBX) connections to an X server did not accept local connections.
Patch 12.00 OSF505X11-005	<b>Patch:</b> Drawing problems with PowerStorm 4D10T graphics card <b>State:</b> Existing This patch corrects the following problems: <ul style="list-style-type: none"><li>• Fixes a problem where, on systems with a PowerStorm 4D10T (ELSA Gloria Synergy, SN-PBXGK-BB) graphics card or a PCI To Ethernet/Graphics Combo Adapter (3X-DEPVD-AA), sometimes lines and images are not drawn correctly in scrolled windows.</li><li>• Fixes synchronization and drawing problems in the X server for the PowerStorm 4D10T (ELSA GLoria Synergy, SN-PBXGK-BB) graphics card.</li></ul>
Patch 14.00 OSF505-005	<b>Patch:</b> Updates the Danish (da_DK.ISO8859-1) locale <b>State:</b> Existing This patch updates the Danish (da_DK.ISO8859-1) locale to use all lowercase month names.
Patch 15.00 OSF505-006	<b>Patch:</b> Fixes a problem that occurs in multibyte locales <b>State:</b> Existing This patch fixes a problem that sometimes occurs when sorting large data files in a multibyte locale such as Japanese.
Patch 19.00 OSF505-010	<b>Patch:</b> Fixes a problem with the grep command <b>State:</b> Existing This patch fixes a problem with the grep command in which the options -p -v together do not produce any output.

**Table 2–2: Summary of Base Operating System Patches (cont.)**

Patch 22.00 OSF505-013A	<b>Patch:</b> Fix for EVM problems on some Alpha EV6 systems <b>State:</b> Existing This patch fixes the following EVM problems on some Alpha™ <sup>TM</sup> EV6 systems: <ul style="list-style-type: none"><li>• evmshow and the event viewer will display timestamps that are incorrect by one hour for binlog events when Daylight Savings Time is in effect.</li><li>• When a binlog event is being displayed on a system located in a different timezone from the system that originally posted the event, the time may be displayed as local time for the posting system. This is inconsistent with the way time is displayed by other utilities, including DECevent and Compaq Analyze.</li></ul>
Patch 23.00 OSF505-014	<b>Patch:</b> Fixes a kernel memory fault when using ATM <b>State:</b> Existing This patch fixes a kernel memory fault when using ATM.
Patch 25.00 OSF505-016	<b>Patch:</b> Fix for VMAC functionality when used with NETrain <b>State:</b> Supersedes patch OSF505-011 (20.00) This patch corrects the following: <ul style="list-style-type: none"><li>• Fixes a kernel memory fault in VMAC code if_addnewaddr().</li><li>• Adds a fix to VMAC functionality when used with NetRAIN.</li></ul>
Patch 27.00 OSF505-018	<b>Patch:</b> Changes quotactl prototype to meet POSIX standards <b>State:</b> Existing This patch changes the quotactl prototype in /usr/include/ufs/quota.h to meet POSIX standards.
Patch 31.00 OSF505-022	<b>Patch:</b> Fix for nfscast error message <b>State:</b> Existing This patch prevents the message "nfscast: select: Invalid argument" message from appearing in the daemon.log when the server is not available. It also changes the "trymany: servers not responding: RPC: Unable to receive" message to an informational message rather than an error message.
Patch 32.00 OSF505-023	<b>Patch:</b> Kernel panics Classical IP over lfa ATM driver <b>State:</b> Existing This patch fixes a kernel panic seen when running Classical IP over the lfa ATM driver. This panic would only occur in lockmode 4. If not in lockmode 4, the symptom would be a CPU hang.
Patch 33.00 OSF505-024	<b>Patch:</b> System panics when running ATM <b>State:</b> Existing This patch fixes a problem in which the system may panic with the error message "simple lock: time limit exceeded" when running ATM.
Patch 35.00 OSF505-026	<b>Patch:</b> Fixes a problem with the find command <b>State:</b> Existing This patch fixes a problem where the find command fails to show filenames that start with a period.
Patch 36.00 OSF505-027	<b>Patch:</b> OS only looks in slot 0 for primary CPU <b>State:</b> Existing This patch fixes a problem where the operating system only looks in slot 0 for the primary CPU.

**Table 2–2: Summary of Base Operating System Patches (cont.)**

Patch 37.00 OSF505-028	<b>Patch:</b> Fixes a tftpd problem <b>State:</b> Existing This patch fixes a tftpd problem. When responding to a broadcast read request and it would add the -b option to control whether to respond to any broadcasts.
Patch 38.00 OSF505-029	<b>Patch:</b> Fixes linker (ld) problems <b>State:</b> Existing This patch corrects two linker (ld) problems: <ul style="list-style-type: none"><li>• Linking large applications with -om -call_shared with very large numbers of external symbols sometimes failed to link.</li><li>• Linking large applications with -om -call_shared with very large numbers of local symbols sometimes failed to link.</li></ul>
Patch 41.00 OSF505-032	<b>Patch:</b> Corrects problem with the fgrep command <b>State:</b> Existing This patch corrects a problem with the fgrep command. When fgrep is used with the -s flag, all output is suppressed.
Patch 42.00 OSF505-033	<b>Patch:</b> Fixes problem with the restore command <b>State:</b> Existing This patch fixes a problem in which the restore command can fail with the following error:  Cannot malloc space for property list
Patch 47.00 OSF505-038	<b>Patch:</b> UFS disk quotas are not updating automatically <b>State:</b> Existing This patch fixes a problem where UFS disk quotas are not updating automatically.
Patch 51.00 OSF505-043	<b>Patch:</b> Provides the latest driver for PowerStorm 4D10T <b>State:</b> Existing This patch provides the latest driver for the PowerStorm 4D10T (ELSA Gloria Synergy, SN-PBXGK-BB) graphics card and the latest graphics driver for the PCI To Ethernet/Graphics Combo Adapter (3X-DEPVD-AA).
Patch 53.00 OSF505-045	<b>Patch:</b> Fixes errors seen when compiling with the -om switch <b>State:</b> Existing This patch fixes three errors that are occasionally seen when compiling with the -om switch:  om: fast access range error  om: value(0x1201704de) not in range of GP table  om: value(0x1201704de) not in range of GP table
Patch 57.00 OSF505-049	<b>Patch:</b> Fixes "lock_terminate: lock held" panic <b>State:</b> Existing This patch fixes a "lock_terminate: lock held" panic when deleting a process group.
Patch 61.00 OSF505-055	<b>Patch:</b> Hardware manager inaccurately reports CPU speed <b>State:</b> Existing This patch fixes a problem where the hardware manager inaccurately reports a CPU speed that was one MHz less than the correct speed.

**Table 2–2: Summary of Base Operating System Patches (cont.)**

Patch 62.00 OSF505-056	<b>Patch:</b> Cursor displays incorrectly when image plane is set to 1 <b>State:</b> Existing This patch fixes a problem where the cursor is displayed incorrectly when the image plane is set to 1 and the mask plane is set to 0.
Patch 64.00 OSF505-058	<b>Patch:</b> Fixes btcreate and btextract problems <b>State:</b> Existing This patch fixes the following btcreate and btextract problems: <ul style="list-style-type: none"><li>• The DEFAULT restore fails if disklabel is different.</li><li>• The btcreate command does not wait long enough between vdump for the next tape to be loaded by some media changers.</li></ul>
Patch 65.00 OSF505-059	<b>Patch:</b> Fixes a hang in the shutdown process <b>State:</b> Existing This patch fixes a hang in the shutdown process (shutdown now) of a system when a device has flow control switched off.
Patch 66.00 OSF505-060	<b>Patch:</b> Fixes kdbx extensions mount and swap <b>State:</b> Existing This patch fixes problems with the kdbx extensions mount and swap. Information about the file system type is incorrect in the mount command. The device name is missing in the swap command.
Patch 67.00 OSF505-062A	<b>Patch:</b> Fixes a problem with routines in the libst library <b>State:</b> Supersedes patch OSF505-025A (34.00) This patch corrects the following problems: <ul style="list-style-type: none"><li>• Fixes a problem with two routines in the libst library, st_obj_open() and st_obj_write(). The ability to change a file permission using these two libst routines is denied if group has write permissions.</li><li>• Fixes a segmentation fault problem with the profiling tool prof. The problem is in library routines that access the line number information in the symbol table, and can affect other commands that look at the symbol table.</li></ul>
Patch 68.00 OSF505-063	<b>Patch:</b> Fix for vrestore problems <b>State:</b> Existing This patch corrects the following vrestore problems: <ul style="list-style-type: none"><li>• A previous patch caused incomplete restores.</li><li>• A warning message is displayed when the path for the first file in a group of hardlinks is created without using original protection codes and property lists.</li><li>• A warning message is displayed and vrestore aborts if it fails to malloc space for a property list.</li><li>• A message which had been inserted at the end of the message file, had the wrong message category (could cause messaging confusion).</li><li>• An uninitialized variable in the code that restores property lists could cause malloc failures, memory faults, "error setting extended attributes" messages, and infinite loops when using the -l option.</li><li>• Corrupted property list information could cause an infinite loop.</li></ul>
Patch 69.00 OSF505-064	<b>Patch:</b> Updates the lfa ATM device driver to V1.0.17 <b>State:</b> Existing This patch updates the lfa ATM device driver to V1.0.17 and adds some enhancements as well as a fix for a kernel memory fault seen when either shutting down or restarting the device driver.

**Table 2–2: Summary of Base Operating System Patches (cont.)**

Patch 70.00 OSF505X11-003B	<b>Patch:</b> Static library fix for libDXm <b>State:</b> Existing This patch fixes a problem in which the svn widget of libDXm.so creates identical backgrounds and foregrounds.
Patch 71.00 OSF505-013B	<b>Patch:</b> Static library fix for libevm <b>State:</b> Existing This patch fixes the following EVM problems on some Alpha EV6 systems: <ul style="list-style-type: none"><li>• evmshow and the event viewer will display timestamps that are incorrect by one hour for binlog events when Daylight Savings Time is in effect.</li><li>• When a binlog event is being displayed on a system located in a different timezone from the system that originally posted the event, the time may be displayed as local time for the posting system. This is inconsistent with the way time is displayed by other utilities, including DECEvent and Compaq Analyze.</li></ul>
Patch 72.00 OSF505-025B	<b>Patch:</b> Cannot change file permission using libst routines <b>State:</b> Existing This patch fixes a problem with two routines in the libst library, st_obj_open() and st_obj_write(). The ability to change a file permission using these two libst routines is denied if group has write permissions.
Patch 73.00 OSF505-062B	<b>Patch:</b> prof profiling tool causes segmentation fault <b>State:</b> Existing This patch fixes a segmentation fault problem with the profiling tool prof. The problem is in library routines that access the line number information in the symbol table, and can affect other commands that look at the symbol table.
Patch 74.00 OSF505-030B	<b>Patch:</b> Security (SSRT0636U) <b>State:</b> Existing A potential security vulnerability has been discovered where, under certain circumstances, system integrity may be compromised. This may be in the form of improper file or privilege management. Compaq has corrected this potential vulnerability.
Patch 75.00 OSF505DX-008	<b>Patch:</b> Fix for System Management Station daemon <b>State:</b> Existing This patch fixes the following problems with the System Management Station daemon: <ul style="list-style-type: none"><li>• The System Management Station daemon (smsd(8)) will intermittently crash.</li><li>• The SysMan Station client will intermittently fail to launch a tool.</li></ul>
Patch 76.00 OSF505X11-006A	<b>Patch:</b> Security (SSRT0656U) <b>State:</b> Existing A potential security vulnerability has been discovered where, under certain circumstances, system integrity may be compromised. This may be in the form of improper file or privilege management. Compaq has corrected this potential vulnerability.



**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 79.00 OSF505-077A	<b>Patch:</b> Fix for pax and vdump problems <b>State:</b> Supersedes patch OSF505-012 (21.00) This patch corrects the following problems: <ul style="list-style-type: none"><li>• Fixes a cpio hanging problem in the Japanese locales.</li><li>• Fixes the following pax and vdump problems:<ul style="list-style-type: none"><li>– The pax/tar command opens and truncates pre-existing files while extracting from an archive. This can cause problems when performing an update install.</li><li>– The vdump command will backup automount symbolic links as files in a directory section. A restore of this link would then prevent automount from changing a directory file to a symbolic link file.</li></ul></li></ul>
Patch 81.00 OSF505-072	<b>Patch:</b> Fix for dn_setup core dump <b>State:</b> Existing This patch fixes a problem where /sbin/dn_setup will core dump during the boot process. The following error is displayed:  /sbin/dn_setup: 1572936 Memory fault - core dumped
Patch 83.00 OSF505-066	<b>Patch:</b> SCSI_MC_GENERIC-READ_ELEMENT_STATUS fails <b>State:</b> Existing This patch fixes a problem in which the SCSI_MC_GENERIC-READ_ELEMENT_STATUS fails with an ioctl return status of -1 and an "i/o error" message.
Patch 86.00 OSF505-070	<b>Patch:</b> Fix for rm_state_change panic <b>State:</b> Supersedes patch OSF505-057 (63.00) This patch corrects the following: <ul style="list-style-type: none"><li>• Fixes a problem in the memory channel driver which could result in panics with rm-inconsistent local spinlock structures being logged.</li><li>• Fixes a system panic that involves state changes on MC2 virtual Hub configurations. The panic message on the console is:  rm_state_change: panic (cpu 0): ERROR: DATA APPEARS CORRUPTED</li></ul>
Patch 89.00 OSF505-076	<b>Patch:</b> Adding swap partition less than 8KB causes problems <b>State:</b> Supersedes patch OSF505-054 (60.00) This patch corrects the following problems: <ul style="list-style-type: none"><li>• Fixes a kernel memory fault in u_anon_faultpage() when it accesses the backing object for the anonymous page.</li><li>• Fixes a situation in which adding swap space results in system instability.</li></ul>
Patch 90.00 OSF505-081	<b>Patch:</b> versw command can core dump during rolling upgrade <b>State:</b> New This patch fixes a problem where the versw command can core dump during a rolling upgrade.
Patch 95.00 OSF505-082A	<b>Patch:</b> Overlap checking in MKFDMN and NEWFS fails <b>State:</b> Existing This patch fixes a problem where overlap checking in MKFDMN and NEWFS would fail for third-party drivers used in a cluster.

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 97.00 OSF505-085	<b>Patch:</b> Fixes a problem with the dlsym routine <b>State:</b> Existing This patch fixes a problem with the dlsym() routine. The problem was that dlsym() would perform a ring search when locating symbols in a library that was linked with the -B symbolic linker flag. The dlsym() search in this case is only a depth search. With this fix, only the selected library and its dependencies will be searched. The search will not continue to the application and its dependencies.
Patch 98.00 OSF505-077B	<b>Patch:</b> pax opens and truncated pre-existing files <b>State:</b> Existing This patch fixes the following pax and vdump problems: <ul style="list-style-type: none"><li>• The pax/tar command opens and truncates pre-existing files while extracting from an archive. This can cause problems when performing an update install.</li><li>• The vdump command will back up automount symbolic links as files in a directory section. A restore of this link would then prevent automount from changing a directory file to a symbolic link file.</li></ul>
Patch 99.00 OSF505-082B	<b>Patch:</b> MKFDMN NEWFS fails for third party drivers in cluster <b>State:</b> Existing This patch fixes a problem where overlap checking in MKFDMN and NEWFS would fail for third-party drivers used in a cluster.
Patch 100.00 OSF505X11-006B	<b>Patch:</b> Security (SSRT0656U) <b>State:</b> Existing A potential security vulnerability has been discovered where, under certain circumstances, system integrity may be compromised. This may be in the form of improper file or privilege management. Compaq has corrected this potential vulnerability.

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 114.00	<b>Patch:</b> Security (SSRT0636U)
OSF505-099	<b>State:</b> Supersedes patches OSF505-004 (13.00), OSF505-015 (24.00), OSF505-030A (39.00), OSF505-031 (40.00), OSF505-061 (92.00), OSF505-044 (52.00), OSF505-071 (87.00), OSF505-105 (104.00), OSF505-137A (105.00), OSF505-128 (106.00), OSF505-135 (107.00), OSF505-086 (108.00), OSF505-116 (109.00), OSF505-118 (110.00), OSF505-119 (111.00), OSF505-113 (112.00) This patch corrects the following: <ul style="list-style-type: none"><li>• The regular expression logic used by <code>grep</code> did not indentify matches that involved expressions with multiple subexpressions and alternate pattern.</li><li>• Corrects the error handling when invalid multibyte sequences are encountered by the <code>vi</code>, <code>ex</code> or <code>more</code> commands.</li><li>• Fixes a problem in <code>libc</code> where <code>gmtime()</code> would return a <code>tm</code> struct containing an incorrect <code>tm_zone</code> abbreviation if previous calls to both <code>gmtime()</code> and <code>localtime()</code> were made.</li><li>• A potential security vulnerability has been discovered where, under certain circumstances, system integrity may be compromised. This may be in the form of improper file or privilege management. Compaq has corrected this potential vulnerability.</li><li>• Fixes a problem in <code>libc</code> that affects debugger tracebacks of code containing <code>split</code> procedures.</li><li>• Corrects a permission denied error when writing to the <code>/var/tcb/files/dblogs/[logfile]</code> while running <code>pop3d</code> and enhanced security.</li><li>• Corrects a problem of the <code>rsh</code> command displaying a warning message instead of the <code>rsh</code> command output when C2 security is configured.</li></ul>

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 114.00 continued	<ul style="list-style-type: none"><li>• Fixes the following Security problems:<ul style="list-style-type: none"><li>– The <code>sia_get_groups()</code> interface where threads other than the main thread in a multi-threaded programs do not receive the correct values in the returned group list.</li><li>– During an update installation from DIGITAL UNIX V4.0F to Tru64 UNIX V5.0A, the Enhanced Security databases are not converted to the new file format and subsequent login attempts will fail. The following messages are displayed in the <code>/var/adm/smlogs/it.log</code> file:  it.log: db_load: /tcb/files/auth.db2: Bad file number it.log: db_load: /var/tcb/files/auth.db2: Bad file number</li></ul></li><li>• Fixes a problem that causes <code>rshd</code> and other programs to core dump.</li><li>• Fixes a problem where a TZ environment variable setting of ":" yields incorrect (or missing) time zone information after calling <code>tzset()</code> and incorrect error reporting from <code>mktime()</code>.</li><li>• Fixes a problem for those applications that assume initial allocations of memory from the C run-time library's <code>malloc()</code> function will return only zero-filled memory.</li><li>• Adds a NULL to the resulting string output of <code>swprintf()</code> calls.</li><li>• Fixes a problem in <code>libc</code> that affects the <code>mktemp</code>, <code>tmpnam</code>, and <code>tempnam</code> functions. The temporary file names that were generated might contain the # character, which violates the file naming standard and may cause problems if a shell script containing a reference to that filename is generated.</li><li>• Corrects a problem in an Enhanced Security configuration where at login time if it is determined an account's password has expired, the "Old password:" prompt did not appear. Rather, the user is immediately prompted for their new password options and is allowed to change to a new password.</li><li>• Fixes a problem in an Enhanced Security configuration. This patch restores the capability for a user to <code>su</code> to root without being prompted or having to know the user's password.</li><li>• Fixes a problem for Enhanced Security configurations where the Maximum Login Interval (<code>u_max_login_intvl</code>) field was being ignored for account templates.</li><li>• Fixes a problem that occurs when attempting to log in on a system with enhanced security. If the login attempt times out or is terminated with a <code>Cont/C</code>, the following is seen:  login: n1_1 Password:  Login timed out  malloc: Interrupted system call  Connection closed by foreign host.</li></ul>
Patch 116.00 OSF505-137B	<p><b>Patch:</b> Fixes a problem in <code>uucp</code></p> <p><b>State:</b> New</p> <p>This patch fixes a problem in <code>uucp</code> where <code>uucp</code> fails on systems names that are greater than seven characters.</p>

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

Patch 118.00 OSF505-089	<b>Patch:</b> Corrects a problem in the lat driver <b>State:</b> New This patch corrects a problem in the lat driver which caused improper processing of the ioctl TCSBRK as well as the generation of spurious <BREAK> characters when the libc routine tcdrain() was used.
Patch 120.00 OSF505-120	<b>Patch:</b> System panic occurs when auditing is enabled <b>State:</b> New This patch fixes the problem where a system may panic with a kernel memory fault when auditing is enabled.
Patch 122.00 OSF505-080	<b>Patch:</b> Fixes a timeout table overflow system panic <b>State:</b> New This patch fixes a timeout table overflow system panic, especially in a clustered environment. This occurs when a bus reset in the isp driver did not restore the System Priority Level (spl), leaving it at an elevated level.
Patch 124.00 OSF505X11-008	<b>Patch:</b> Adds support for euro character to keymap files <b>State:</b> New This patch adds support for the euro character to keymap files.
Patch 126.00 OSF505-139A	<b>Patch:</b> Fix for threaded applications problem <b>State:</b> Existing This patch corrects the following: <ul style="list-style-type: none"><li>• Fixes a problem where threaded applications built on DIGITAL UNIX V3.2 era systems may encounter an unresolved reference to _pthread_init_routine when run on a Tru64 UNIX V5.0a system.</li><li>• Ensures that threads created by programs linked -taso run on stacks with addresses that fit in the 31-bit taso range. Prior to this patch threads created by taso programs were run on stacks with non-taso addresses, which could result in truncated address values, and segmentation faults or data corruption depending on whether the truncated address is valid.</li></ul>
Patch 128.00 OSF505-139B	<b>Patch:</b> Fix for threads created by taso programs <b>State:</b> New This patch ensures that threads created by programs linked -taso run on stacks with addresses that fit in the 31-bit taso range. Prior to this patch threads created by taso programs were run on stacks with non-taso addresses, which could result in truncated address values, and segmentation faults or data corruption depending on whether the truncated address is valid.
Patch 130.00 OSF505-096	<b>Patch:</b> Incorrect warning messages about mounted filesystems <b>State:</b> New This patch prevents "not currently mounted" warning messages from being displayed for filesystems you did not request to umount.
Patch 132.00 OSF505X11-012	<b>Patch:</b> Fix for tclhelp failure <b>State:</b> New This patch fixes a problem in which tclhelp and any other tool using #!/usr/bin/wishx as the interpreter fail when additional versions of tcl are installed in /usr/local.
Patch 134.00 OSF505-130	<b>Patch:</b> Fixes problems with vdf <b>State:</b> New This patch fixes two separate problems with vdf: <ul style="list-style-type: none"><li>• vdf does not run at non-root level.</li><li>• vdf may give incorrect information.</li></ul>

**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 141.00 OSF505-112	<p><b>Patch:</b> System hangs when running granularity hints</p> <p><b>State:</b> Supersedes patches OSF505-019 (28.00), OSF505-020 (29.00), OSF505-034 (43.00), OSF505-041 (49.00), OSF505-047 (55.00), OSF505-048 (56.00), OSF505-050 (58.00), OSF505-007 (16.00), OSF505-008 (17.00), OSF505-009 (18.00), OSF505-065 (93.00), OSF505-079 (88.00), OSF505-083 (94.00), OSF505-084 (96.00), OSF505-114 (135.00), OSF505-126 (136.00), OSF505-138 (137.00), OSF505-094 (138.00), OSF505-103 (139.00)</p> <p>This patch corrects the following:</p> <ul style="list-style-type: none"><li>• Fixes a problem that causes corruption in the floating point registers whereby the flag fields <code>nxm_fp_owned</code> are overwritten with 0s.</li><li>• Fixes "can_replace: slot replacement mismatch" panics which can occur when running multithreaded applications.</li><li>• Fixes a problem in which metadata buffers are being written asynchronously instead of on a delayed basis.</li><li>• Fixes a problem in which the POSIX interval timer is not resilient to clock slowdown caused either by NTP or by a backwards change of the clock.</li><li>• Fixes a problem where if the size of the message queue was increased, writers to the queue that were blocked would not wake up for processing.</li><li>• Fixes a problem where the system appears to hang. A child process is holding a lock too long and preventing other processes from doing work.</li><li>• Fixes an "unaligned kernel space access from kernel mode" panic when doing a malloc from <code>knembucket 26,896</code> byte bucket. The faulting virtual address will be the lock signature for <code>thread_deallocate()</code>.</li><li>• Fixes a "simple_lock time limit exceeded" panic due to an SMP race condition in <code>namecache</code>.</li><li>• Fixes a problem that occurs when <code>fuser -k</code> is issued on a dismounted NFS mount point in which some process is running, a hang will occur.</li><li>• Fixes a race condition in the UBC code where a lookup is done on a page being invalidated (freed).</li><li>• Fixes a hang or <code>simple_lock_state_violation</code> panic in <code>biodone</code>.</li><li>• Fixes a system panic in <code>cfs_unmount</code>. The panic string is:  <code>cfs_unmount: panic("VFS_UNMOUNT failed ")</code>  This is caused by a race condition in <code>ubc_invalidate()</code> where pages could be missed if they transition from the clean list to the dirty list.</li><li>• Fixes "simple_lock: time limit exceeded" system panic either from <code>cache_lookup()</code> or <code>cache_enter()</code>. This is caused by the <code>namecache</code> LRU list getting corrupted.</li><li>• Fixes a binary compatibility problem for the four system calls: <code>sendmsg</code>, <code>nsendmsg</code>, <code>recvmsg</code>, and <code>nrecvmsg</code>. They were not preserved between V4.0x and V5.x releases.</li><li>• This patch fixes two panics that have the following error messages:  <code>simple_lock: time limit exceeded</code>  <code>simple_lock: lock already owned by cpu</code></li></ul>
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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 141.00 continued	<ul style="list-style-type: none"><li>• There is a potential for a system panic in routine sbflush() if there is an attempt to flush a socket buffer while it is locked by another thread. This patch corrects this problem.</li><li>• Fixes panics and memory corruption in setuid/setgid.</li><li>• This is a kernel patch that addresses a binary compatibility problem seen with 4 networking system calls: sendmsg, osendmsg, recvmsg, and orecvmsg. In certain cases, executables compiled on other versions of TRU64 Unix will not work correctly when using these system calls.</li><li>• Fixes a panic in the UFS filesystem which has the following error message:  blkfree: freeing free block</li><li>• Fixes a system hang that can occur during an NFS operation on a system running granularity hints.</li></ul>
Patch 148.00 OSF505-123	<p><b>Patch:</b> Performance problem in Cluster File System <b>State:</b> Supersedes patches OSF505-040 (91.00), OSF505-102 (142.00), OSF505-091 (143.00), OSF505-088 (144.00), OSF505-093 (145.00), OSF505-134 (146.00) This patch corrects the following:</p> <ul style="list-style-type: none"><li>• Fixes a problem that has the potential to cause a noticeable performance degradation in the Cluster File System on systems that perform large writes. This patch is to prevent a deadlock in NFS over TCP that could occur if the client is not responding properly. The hang will be seen in the nfs tcp threads in rrok3free().</li><li>• Prevents a sbdrop panic from occurring.</li><li>• Fixes a panic in in_pcbfree() when NFS is implemented over TCP.</li><li>• Corrects a problem which could cause the system to spend excessive time in the internet checksum routine, resulting in a degradation of system performance.</li><li>• Corrects the problem with write errors seen on soft mounted NFS filesystems. The error received is:  NFS3 RFS3_WRITE failed for server ncinfo: RPC: Server can't decode arguments</li><li>• Increases the speed of large NFS client I/O.</li><li>• Prevents a possible NFS over TCP hang. NFS TCP threads will be blocked in sosbwait() causing the system to appear to be hung.</li><li>• Fixes a problem where some network based multimedia applications will cause a kernel memory fault when exiting.</li></ul>
Patch 150.00 OSF505X11-010A	<p><b>Patch:</b> Fixes a memory leak in Xt <b>State:</b> New This patch fixes a memory leak in the X Window System's X Toolkit library (Xt) that could occur when creating and destroying Motif List, Text, and TextField widgets.</p>
Patch 152.00 OSF505X11-010B	<p><b>Patch:</b> Memory leak when creating and destroying widgets <b>State:</b> New This patch fixes a memory leak in the X Window System's X Toolkit library (Xt) that could occur when creating and destroying Motif List, Text, and TextField widgets.</p>

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 154.00 OSF505-095	<p><b>Patch:</b> Improper handling of PCI options cards</p> <p><b>State:</b> Supersedes patch OSF505-046 (54.00)</p> <p>This patch corrects the following:</p> <ul style="list-style-type: none"><li>• Provides PCI Resource Management support for the Atalla AXL200 cryptographic accelerator card. It also fixes a problem where genvmunix does not boot on a system with an Atalla AXL200 card installed.</li><li>• Fixes the improper handling of PCI options cards that use 64-bit BARs (Base Address Registers).</li></ul>
Patch 157.00 OSF505-144	<p><b>Patch:</b> Unnecessary error messages written to lpr log file</p> <p><b>State:</b> Supersedes patches OSF505-017 (26.00), OSF505-092 (101.00), OSF505-104 (155.00)</p> <p>This patch fixes the following printing problems:</p> <ul style="list-style-type: none"><li>• When using the I18N ya option, the queue daemon filters will terminate after 32 jobs.</li><li>• Under certain circumstances, print jobs are terminated when printing to certain printers that are connected to a DECserver through TCP/IP.</li><li>• The read-backs for remote connections cause an additional 2-second timeout, which may cause a job-submit failure on the job-number wraparound.</li><li>• A user is unable to delete a print job from a remote system with a hostname greater than 32 characters because the hostname was truncated.</li><li>• When a TCP/IP connection fails, the retry algorithm would take longer to print jobs due to a long retry interval.</li><li>• A timing hole during lpd last-job completion and shutdown needed to be closed.</li><li>• It was not possible to print to the lpd queue using Windows 2000.</li><li>• Corrects a problem in which, under certain conditions, unnecessary error messages are written to the lpr.log file.</li></ul>

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 159.00 OSF505-133	<p><b>Patch:</b> Fixes AdvFS domain panic</p> <p><b>State:</b> Supersedes patches OSF505-036 (45.00), OSF505-037 (46.00), OSF505-035 (44.00), OSF505-073 (82.00), OSF505-101 (102.00)</p> <p>This patch corrects the following problems:</p> <ul style="list-style-type: none"><li>• Fixes the following two problems in the I/O subsystem:<ul style="list-style-type: none"><li>– Only the first byte of the HSZ serial number is checked.</li><li>– The time allowed for the command timeout on AIT tape drives is increased to from 5 seconds to 5 minutes.</li></ul></li><li>• Fixes a problem in which a reboot will fail after hwmgr is used to delete or add devices.</li><li>• Corrects a kernel memory fault caused by hwmgr.</li><li>• When using the hwmgr -edit scsi command to make a nonshared SCSI device have a unique identifier, the SCSI device should be registered with the hardware management code as shared. Prior to this fix, the SCSI device was still being registered as nonshared.</li><li>• Fixes a panic during a multi-node reboot. The panic has the following error message:  panic: lock_write</li><li>• Prevents an AdvFS Domain Panic from occurring during the boot process following a clu_add_member.</li></ul>
Patch 163.00 OSF505-087	<p><b>Patch:</b> Fixes conflicting cuserid declarations</p> <p><b>State:</b> New</p> <p>This patch fixes conflicting cuserid() declarations. It also fixes existing prototype/definition conflicts that cause C++ compiler errors when using this function.</p>
Patch 165.00 OSF505CDE-003	<p><b>Patch:</b> dtlogin core dumps from XDMCP clients</p> <p><b>State:</b> New</p> <p>This patch fixes a problem where the Common Desktop Environment (CDE) login daemon, dtlogin, core dumps occasionally when servicing requests from XDMCP clients such as X terminals or PCs running X servers.</p>

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 167.00 OSF505DX-009	<p><b>Patch:</b> Fixes incorrect date and time stamp on new directory</p> <p><b>State:</b> Supersedes patches OSF505DX-004 (4.00), OSF505DX-005 (5.00), OSF505DX-006 (6.00), OSF505DX-007 (7.00)</p> <p>This patch corrects the following problems:</p> <ul style="list-style-type: none"><li>• Fixes a situation in which a system running ASU experiences dxaccounts crash problem when a user is deleted from PC User view.</li><li>• Fixes the following cli command problems:<ul style="list-style-type: none"><li>– Incorrect results of usermod -G command.</li><li>– Not setting c2 security attributes values when useradd/usermod commands with -x account_inactive   account_expiration are executed.</li><li>– When running useradd X and useradd Y on the same machine but from separate terminals, two different types of contention error messages are displayed.</li><li>– The following command does not display an error message, which it should when executed from a NIS client: <code>usermod (or useradd) -x local=0' groupmod (or groupadd) -x local=0</code></li></ul></li><li>• Fixes the following dxaccount problems:<ul style="list-style-type: none"><li>– The ability to change root's login/uid through cli/dxaccounts utilities.</li><li>– The -t flag in useradd and usermod commands' usage displays an error message instead of adding or modifying the local user.</li><li>– dxaccounts dialog messages are incorrectly displayed when a user is added with no password entry.</li><li>– Unable to create a new user from the PC Users' view on a system with ASU installed.</li><li>– The following problems can occur with the dxaccounts application on ASU system:<ul style="list-style-type: none"><li><input type="checkbox"/> The dxaccounts crashes when the root icon is double clicked.</li><li><input type="checkbox"/> The full name of a new PC account is not mapped to a UNIX user.</li><li><input type="checkbox"/> Erasing a PC account's fields does not work: the values erased remains.</li><li><input type="checkbox"/> The default values of Home Directory, Login Script &amp; User Profile Path for a PC user are invalid.</li></ul></li></ul></li><li>• Fixes a problem where the new home directory for a new user id is created with the date and time stamp of the /usr/skel directory.</li></ul>
Patch 170.00 OSF505-117	<p><b>Patch:</b> ATM LAN emulation fails with ATM Meteor 351 board</p> <p><b>State:</b> New. Supersedes patch OSF505-097 (168.00)</p> <p>This patch corrects the following:</p> <ul style="list-style-type: none"><li>• When running ATM Lan Emulation, using more than four ATM Netrain interfaces can result in recursive calls causing a kernel stack not valid halt.</li><li>• Fixes a problem of ATM LAN emulation failing to come up when the using the ATM Meteor 351 board.</li></ul>
Patch 172.00 OSF505-136	<p><b>Patch:</b> Fixes problems with the collect command</p> <p><b>State:</b> New</p> <p>This patch fixes several problems with the collect command and it adds sysloging when collect suspends, resumes, or receives a signal.</p>

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 174.00 OSF505X11-009A	<b>Patch:</b> Fix for memory leaks in Xlib <b>State:</b> New. Supersedes patch OSF505X11-002 (9.00) This patch corrects the following: <ul style="list-style-type: none"><li>• Fixes a problem in which some 8-bit characters cannot be entered directly from the keyboard when the Caps Lock setting is on.</li><li>• Fixes two memory leaks in the X Window System's X library (Xlib) that can occur when creating and destroying Motif List, Text, and TextField widgets.</li></ul>
Patch 176.00 OSF505X11-009B	<b>Patch:</b> Memory leaks occur when creating widgets <b>State:</b> New This patch fixes two memory leaks in the X Window System's X library (Xlib) that can occur when creating and destroying Motif List, Text, and TextField widgets.
Patch 178.00 OSF505-110	<b>Patch:</b> Incorrect bcache size returned to kernel from HWRPB <b>State:</b> New This patch corrects the following. <ul style="list-style-type: none"><li>• A problem that caused the device_tables.h file to be unusable with C++. This problem occurred on Professional Workstation 900 and 1000 systems and AlphaServer DS10, DS20, DS20E and ES40 systems.</li><li>• A problem that caused an incorrect bcache size to be returned to the kernel from the HWRPB. This problem occurred on Professional Workstation 900 and 1000 systems and AlphaServer DS10, DS20, DS20E, ES40, GS80, GS160, and GS320 systems</li></ul>
Patch 180.00 OSF505X11-011A	<b>Patch:</b> Fixes memory leak in libXm <b>State:</b> New This patch fixes various memory leaks in the Motif library (libXm) that could occur when creating and destroying Motif List, Text, and TextField widgets.
Patch 182.00 OSF505X11-011B	<b>Patch:</b> libXm memory leak when creating widgets <b>State:</b> New This patch fixes various memory leaks in the Motif library (libXm) that could occur when creating and destroying Motif List, Text, and TextField widgets.
Patch 184.00 OSF505-127	<b>Patch:</b> Bootlink can fail on AlphaStations 600, 600A, 500/400 <b>State:</b> New This patch fixes a problem in which the bootlink can fail on Alphastations 600, 600A, 500/400.

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 186.00 OSF505-145	<p><b>Patch:</b> Disks can become inaccessible on a cluster node</p> <p><b>State:</b> Supersedes patches OSF505-075 (85.00), OSF505-098 (103.00)</p> <p>This patch corrects the following:</p> <ul style="list-style-type: none"><li>• Fixes the following CAM disk problems that occur occasionally only during heavy I/O:<ul style="list-style-type: none"><li>– EPERM errors are reported to the application when a device is reopened.</li><li>– A device may become unavailable to DRD and will failover even if there is a viable path to the device.</li></ul></li><li>• Fixes a problem that occurs when connectivity of a device is restored in a cluster environment, the state of the paths to the device may not be current. The problem symptoms will be one or more of the following:<ul style="list-style-type: none"><li>– Member node hang for a minute or more.</li><li>– Member node does not become a server for the device.</li><li>– Persistent reservation not re-applied to the device.</li></ul></li><li>• Fixes a problem in the V5.0A Initial Patch Kit where disks can become inaccessible on a cluster node. The following error message appears:  DRD barrier failed against 219 returned 60 (=ETIMEDOUT)</li></ul>
Patch 188.00 OSF505-090	<p><b>Patch:</b> advscan does not display bootable partitions properly</p> <p><b>State:</b> Existing</p> <p>When a disk partition exactly overlaps an AdvFS partition, the advscan utility would erroneously think both partitions belong in the domain. This patch fixes a problem where advscan -a -g does not display bootable partitions properly.</p>
Patch 190.00 OSF505-111	<p><b>Patch:</b> -tree index for directory could become corrupted</p> <p><b>State:</b> Supersedes patches OSF505-039 (48.00), OSF505-067 (77.00)</p> <p>This patch corrects the following:</p> <ul style="list-style-type: none"><li>• Fixes a problem where the output of a ps command, the PAGEIN column reports 0 for all processes.</li><li>• Fixes an Advfs problem where under the right conditions a Kernel Memory Fault panic can occur while writing to an Atomic Data Logging file.</li><li>• Corrects a problem whereby under certain unlikely conditions, a b-tree index for a directory could become corrupted.</li></ul>
Patch 192.00 OSF505-121	<p><b>Patch:</b> Fix for what command</p> <p><b>State:</b> New</p> <p>This patch fixes a problem in the what command. This command was unable to process more than one input file at once.</p>
Patch 194.00 OSF505-146	<p><b>Patch:</b> Fixes potential source code computability problem</p> <p><b>State:</b> New</p> <p>This patch fixes a potential source code computability problem with certain third party (non-Compaq) device drivers.</p>
Patch 196.00 OSF505-107	<p><b>Patch:</b> Security (SSRT0683U)</p> <p><b>State:</b> New</p> <p>A potential security vulnerability has been discovered where, under certain circumstances, system integrity may be compromised. This may be in the form of improper file or privilege management. Compaq has corrected this potential vulnerability.</p>

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 198.00 OSF505-129	<b>Patch:</b> Fixes problems in the Compaq C compiler <b>State:</b> Supersedes patch OSF505-021 (30.00) This patch fixes the following problems: <ul style="list-style-type: none"><li>• A virtual memory exhausted error when compiling the Open Source encryption library OpenSSL.</li><li>• An optimizer problem in loop unrolling that caused an incorrect result under certain conditions.</li><li>• Various compiler crashes under under certain conditions.</li><li>• An optimizer problem that caused the exception handling programs in chapter 11 of the Programmer’s Guide to fail.</li><li>• An optimizer problem that caused a Perl validity test to fail when using a long double NaN.</li><li>• An optimizer problem that caused the wrong answer to be produced for a program involving tail recursion.</li></ul>
Patch 200.00 OSF505CDE-002	<b>Patch:</b> Fix for dtmail problem <b>State:</b> New This patch fixes a dtmail problem in which a "From" line with quotes in it incorrectly finds the date of the mail message. This error is displayed on the main screen under the header "Date and Time" and shows up as Dec. 31 or as a blank field.
Patch 202.00 OSF505-131	<b>Patch:</b> Upgrades sys_check utility to version 119 <b>State:</b> New This patch upgrades sys_check utility to version 119 and provides the following changes: <ul style="list-style-type: none"><li>• Utilizes Compaq Analyze when available.</li><li>• Utilizes new cliscript tool in place of hszterm.</li><li>• Updated ASU section.</li></ul>
Patch 205.00 OSF505-125	<b>Patch:</b> Corrects problem with mv command deleting files <b>State:</b> Supersedes patch OSF505-115 (203.00) This patch corrects the following: <ul style="list-style-type: none"><li>• Corrects the problem with the mv(1) command deleting files in the directory when the user moves a directory to itself.</li><li>• Corrects the problem with the mv(1) command deleting files in the directory when the user moves a directory to itself.</li></ul>
Patch 207.00 OSF505-124	<b>Patch:</b> Potential hang on booting a cluster <b>State:</b> New This patch is to prevent a potential hang on booting a Cluster when more than one node is being booted simultaneously.
Patch 209.00 OSF505CDE-004	<b>Patch:</b> dtwm hangs on system using multiple displays <b>State:</b> New This patch fixes a problem in which the Window Manager (dtwm) intermittently hangs on a system which uses multiple displays.

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**Table 2–2: Summary of Base Operating System Patches (cont.)**

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Patch 211.00 OSF505-108	<b>Patch:</b> Fixes cron problems <b>State:</b> Supersedes patch OSF505-042 (50.00) This patch corrects the following: <ul style="list-style-type: none"><li>• Fixes a problem where some crontab jobs would run multiple times in the same minute.</li><li>• The cron daemon does intensive logging and fills up the disk.</li><li>• Multiple cron daemons continue to run and consume system resources due to the fact that after a user is deleted from the system there are still jobs running on the users behalf.</li></ul>
Patch 213.00 OSF505DX-010	<b>Patch:</b> Fixes problem causing diskconfig to issue error msg <b>State:</b> New This fixes a problem that was causing diskconfig to issue the following error message upon startup:  can't read "tminor": no such variable
Patch 215.00 OSF505-140	<b>Patch:</b> Updates emx Fiber Channel driver to revision 1.22 <b>State:</b> Supersedes patch OSF505-053 (59.00), OSF505-141 (161.00) This patch corrects the following: <ul style="list-style-type: none"><li>• Updates the emx Fiber Channel driver to revision 1.22 which corrects a Data Error that is seen when running with the latest Emulex firmware. This error corrupts data when reading from the disk. This revision also fixes an error that causes performance degradation.</li><li>• Fixes the following DE600/DE602 10/100 Ethernet adapters problems:<ul style="list-style-type: none"><li>– The primary CPU may appear hung on networks where switches send "Flow Control Pause" frames if they become overloaded</li><li>– Transmit timeout messages appearing in the console log due to the driver timing out a frame.</li><li>– Provides support for the DEGPA-TA (1000BaseT) Gigabit Ethernet device.</li></ul></li></ul>
Patch 217.00 OSF505-166	<b>Patch:</b> Corrects a hardware probe time hang <b>State:</b> Supersedes patch 84.00 This patch corrects the following problems: <ul style="list-style-type: none"><li>• Corrects a hardware probe time hang that may occur when booting.</li><li>• Compaq has determined in laboratory testing that there is a theoretical possibility that, during read and write operations to the floppy disk on DS10, DS10L and ES40 AlphaServers and VS10 and XP900 AlphaStations, a single byte of data may be inaccurately read or written without notice to the user or system. The potential for this anomaly exists only if floppy data read and write operations are attempted while there is extremely heavy traffic on these Alpha systems' internal input/output busses. Although Compaq has observed the anomaly only in laboratory tests designed to create atypical system stresses, including almost constant use of the floppy disk drive, we are supplying this patch to address this potential issue.</li></ul>

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## Summary of TruCluster Software Patches

This chapter summarizes the TruCluster software patches included in Patch Kit-0002.

Table 3–1 lists patches that have been updated.

Table 3–2 provides a summary of patches in Patch Kit-0002.

**Table 3–1: Updated TruCluster Software Patches**

Patch IDs	Change Summary
Patch 23.00	New
Patches 2.00, 4.00, 12.00	Superseded by Patch 21.00
Patches 6.00, 7.00, 9.00, 10.00, 11.00, 24.00, 5.00, 1.00, 14.00, 15.00, 16.00, 17.00, 19.00	Superseded by Patch 26.00

**Table 3–2: Summary of TruCluster Patches**

Patch IDs	Abstract
Patch 8.00 TCR505-008	<p><b>Patch:</b> Fix for MC2 vhub cluster panic</p> <p><b>State:</b> New</p> <p>If lockmode has been set to 4, booting an MC2 vhub cluster generates the following panic on the second node booting:</p> <pre>simple_lock: uninitialized lock .... panic (cpu 0): simple_lock: uninitialized lock</pre>
Patch 13.00 TCR505-018	<p><b>Patch:</b> Problem seen when running clu_upgrade preinstall cmds</p> <p><b>State:</b> Supersedes patch TCR505-009 (3.00)</p> <p>This patch fixes the following:</p> <p>Delivers a new stripped clu_genvmunix and several fixes to the cluster rolling upgrade procedure.</p> <p>Problem seen when running clu_upgrade preinstall commands on certain multi-cpu systems. Numerous error messages similar to the following are seen:</p> <pre>*** Error *** Could not create: ocolsocls/.Old..ocols</pre> <p>If you see this problem enter a Ctrl/C and rerun the clu-upgrade preinstall command.</p>

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**Table 3–2: Summary of TruCluster Patches (cont.)**

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Patch 21.00 TCR505-021	<p><b>Patch:</b> Corrects problem with cluster member</p> <p><b>State:</b> Supersedes patches TCR505-006 (2.00), TCR505-002 (4.00), TCR505-014 (12.00)</p> <p>This patch corrects the following problems:</p> <ul style="list-style-type: none"><li>• Fixes a system panic that can be caused by Memory Channel errors occurring when the system is under heavy load.</li><li>• Improves cluster communication performance including file system mount times.</li><li>• Corrects problems seen when both a member is leaving and joining the cluster at the same time.</li><li>• Corrects problems with loss of quorum in a cluster. Once the quorum is lost, the member may panic with the panic string:  QNX DISK: yeilding to foreign owner with quorum.</li></ul>
Patch 23.00 TCR505-019	<p><b>Patch:</b> Fixes a problem with the Memory Channel API</p> <p><b>State:</b> New</p> <p>This patch fixes a problem with the Memory Channel API, whereby a node crashes holding an mc-api lock. Under certain circumstances the lock will not be released after the node crashes.</p>

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**Table 3–2: Summary of TruCluster Patches (cont.)**

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Patch 26.00 TCR505-011	<p><b>Patch:</b> Fixes problem on cluster nodes</p> <p><b>State:</b> Supersedes patches TCR505-003 (6.00), TCR505-007 (7.00), TCR505-010 (9.00), TCR505-012 (10.00), TCR505-013 (11.00), TCR505-023 (24.00), TCR505-004 (5.00), TCR505-005 (1.00), TCR505-015 (14.00), TCR505-024 (15.00), TCR505-020 (16.00), TCR505-016 (17.00), TCR505-017 (19.00)</p> <p>This patch corrects the following problems:</p> <ul style="list-style-type: none"><li>• Fixes a situation which has caused a node panic with the following message:  SIMPLE_LOCK: TIME LIMIT EXCEEDED PANIC ON SHARED TAPE</li><li>• Solves a problem with booting and shutting down cluster nodes while using a tape (or changer) device in a V5.0A cluster.</li><li>• Fixes a problem where a mount command will hang after DRM has restored the path to an HSG80 storage volume.</li><li>• Fixes a problem where a path will fail after DRM has restored the path to an HSG80 storage volume.</li><li>• Fixes a problem where on a cluster node, if a new device is detected by a HW scan while the cluster is up running, one of the following situations can occur:<ul style="list-style-type: none"><li>– Only one node will be able to use the device; if the device is Fiber Channel.</li><li>– There is a small risk for data corruption on parallel SCSI device on a shared bus if the node subsequently loses quorum.</li></ul></li><li>• Provides the DRD portion of a fix to prevent an AdvFS Domain Panic from occurring during the boot process following a <code>clu_add_member</code>.</li><li>• Fixes a problem where on a cluster node, if a SCSI bus reset occurs, when there is a loss of quorum, the <code>drd</code> will be blocked on tape devices.</li><li>• Fixes a kernel memory fault panic in routines <code>cfstok_find_held_tok</code>. This is caused when the very first action of a new allocated thread is a lookup in an NFS filesystem of ".".</li><li>• Fixes a problem where mounts that return "ESTALE" may loop forever. This patch prevent a KMF panic from occurring when an AdvFS mount is attempted without a filesset being specified.</li><li>• Provides the CFS/CMS portion of a fix to prevent an AdvFS Domain Panic from occurring during the boot process following a <code>clu_add_member</code>.</li><li>• Corrects a problem with cluster members panic with a "kernel memory fault" when either running <code>sys_check</code> or <code>multiple cfsmgr</code> commands.</li><li>• Provides performance enhancements for CFS.</li><li>• Prevents an "request_internal: client already had token" panic from occurring when nodes are leaving and joining the cluster.</li></ul>
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