## Tru64 UNIX 4.0F and TruCluster 1.6 Patch Summary and Release Notes for Patch Kit-0001

June 1999

This manual describes the release notes and contents of Patch Kit-0001. It provides any 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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## **About This Manual**

This manual contains information specific to Patch Kit-0001 for the Tru64 UNIX Version 4.0F operating system and TruCluster 1.6 software products. It provides a list of the patches contained in each kit and describes any information you need to know when installing specific patches.

For information about installing or removing patches, baselining, and general patch management, see the document called *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 base 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, ASE, and TCR Patch Kit Installation Instructions
- Tru64 UNIX Installation Guide
- Tru64 UNIX System Administration
- TruCluster Software Products Software Installation
- TruCluster Software Products Administration
- Any release-specific installation documentation

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- The full title of this document.
- 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.

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# **Release Notes**

This chapter provides information that you must be aware of when working with Tru64 UNIX 4.0F and TCR 1.6 Patch Kit-0001.

## **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. It is recommended that this kit not be placed in the /, /usr, or /var file systems because this may unduly constrain the available storage space for the patching activity.

• Permanent Storage Space

Up to ~15.6 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 ~15.8 MB of storage space in /var/adm/patch may be required for original files if you choose to install and revert all patches. See *Patch Kit Installation Instructions* for more information.

Up to ~126 KB of storage space is required in /var/adm/patch/doc for patch abstract and README documentation.

A total of ~120 KB of storage space is needed in <code>/usr/sbin/dupatch</code> for the patch management utility.

#### **TruCluster Software products**

• Temporary Storage Space

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

• Permanent Storage Space

Up to ~12.0 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 ~12.3 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 ~132 KB of storage space is required in /var/adm/patch/doc for patch abstract and README documentation.

A total of ~120 KB of storage space is needed in /usr/sbin/dupatch for the patch management utility.

## **1.2 New dupatch Features**

The following sections describe new features of dupatch.

#### 1.2.1 dupatch-based Patch Kits for ASE and TCR Patches

Patches for ASE and TCR are now installed, removed, and managed through dupatch. The ASE and TCR patch kits have been converted to dupatch-based patch kits and distributed in the same patch distribution as the applicable operating system.

The multi-product support within dupatch is most visible when installing or removing patches. dupatch will display a list of the products which are on the system and in the patch kit, allowing the user to select one or more products before proceeding with patch selections.

You must load the new patch tools provided in this patch kit. See the *Patch Kit Installation Instructions* for more information.

Since all prior ASE and TCR patches have been installed manually, you must set the system patch baseline. See the *Patch Kit Installation Instructions* for detailed information.

#### 1.2.2 New Cross-Product Patch Dependency Management

The dupatch utility now manages patch dependencies across the Tru64 UNIX operating system, ASE, and TCR patch kits. An example of patch cross-product dependency handling for a system with both Tru64 UNIX 4.0F and TCR 1.6 installed follows:

• If a Tru64 UNIX 4.0F Patch 1.00 is chosen for installation and it depends upon TruCluster 1.6 Patch 17.00 which is not already installed or chosen for installation, the dupatch installation precheck will warn you of the dependency and block the installation of the Tru64 UNIX 4.0F Patch 1.00.

If the patch selections are reversed, dupatch will still warn you and block installation of the chosen patch.

#### 1.2.3 Patch Special Instruction Handling by dupatch

The format and content of the per-patch special instructions has been revised to make it easier to use. The special instructions are now displayed when patches are removed. The per-patch special instructions are viewable through the dupatch documentation menu.

#### 1.2.4 Patch Tracking and Documentation Viewing

The patch tracking and documentation viewing features within dupatch can now be used in multi-user mode by non-root users. See the *Patch Kit Installation Instructions* for more information.

From the dupatch patch tracking menu you can now list the patch kits from which patches installed on your system originated.

#### 1.2.5 System Patch Baselining

The system patch baselining feature of dupatch has been improved. Phase 4 now reports all missing or unknown system files regardless of their applicability to the

patch kit. This will help you identify the origin of manually changed system files. See the *Patch Kit Installation Instructions* for more information.

#### 1.2.6 New Command Line Interface Switches

The dupatch command line mode contains the following new switches:

- The -product switch must be used when you specify the -install or -delete switches when the target system has more than one installed product that is on the kit (such as Tru64 UNIX, ASE, and TCR). This switch allows you to specify the product name which the rest of the patch operations will affect. The -product switch must precede the -patch switch on the command line. See the *Patch Kit Installation Instructions* for more information.
- A -nolog switch has been added to enable you to turn off session logging.
- The -version switch is no longer used for delete. Using this switch will cause an error and the help information will be displayed on the screen.

Any error on the command line will cause the help information to be displayed on the screen.

If any mandatory switch is missing when using the command line interface, the command fails with the appropriate usage message. Once you select the command line interface, dupatch will not go into interactive mode. Prompting is no longer mixed with the command line interface.

#### 1.2.7 Compatibility Between Revisions of dupatch

The new dupatch will work with older revisions of dupatch-based patch kits.

The older revisions of dupatch, however, rev 15 and lower, do not know how to install, remove, or manage patches from the new style patch kits. Please ensure that you load the new patch installation tools when you receive this patch kit. See the *Patch Kit Installation Instructions* for more information.

### 1.3 Known Problem with dupatch

The following list of dupatch error messages will be created when executing dupatch. This problem will be addressed in a future release of dupatch.

After installation of the V4.0F Patch Kit-0001, the target root contains these three files:

# ls -l PCI*				
-rw-r-r-	1 root	system	0 Jun	1 18:35 PCITMP1
-rw-r-r-	1 root	system	0 Jun	1 18:35 PCITMP2:
-rw-r-r-	1 root	system	0 Jun	1 18:35 PCITMP3

Also, the root directory of the system installing the patches contains the files:

# ls -l /P\_P\* -rw-r-r- 1 root system 54 Jun 1 18:35 /P\_ProdCacheInfo.tmp1 -rw-r-r- 1 root system 0 Jun 1 18:35 /P\_ProdCacheInfo.tmp2

These are error messages from dupatch that are not being properly trapped. This problem will be addressed in a future release of dupatch.

## Summary of Base Operating System Patches

This chapter summarizes the base operating system patches included in Patch Kit-0001.

Table 2–1 lists patches that have been updated.

Table 2–1: Updated Base Operating System Summary
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Patch IDs	Change Summary
Patches 2.00, 3.00, 4.00, 5.00, 6.00, 7.00, 8.00, 55.00, 11.00, 12.00, 25.00, 16.00, 17.00, 18.00, 19.00, 20.00, 22.00, 26.00, 28.00, 31.00, 67.00, 32.00, 54.00, 34.00, 35.00, 36.00, 37.00, 38.00, 39.00, 40.00, 42.00, 43.00, 44.00, 45.00, 47.00, 53.00, 56.00, 57.00, 58.00, 59.00, 60.00, 61.00, 63.00, 74.00, 21.00, 66.00, 41.00, 68.00, 46.00, 69.00, 62.00, 70.00, 48.00, 71.00, 73.00, 72.00, 75.00	New
Patch 1.00	Superseded by Patch 2.00
Patches 9.00, 10.00, 13.00, 27.00	Superseded by Patch 55.00
Patches 15.00, 23.00, 24.00	Superseded by Patch 25.00
Patch 30.00	Superseded by Patch 31.00
Patches 33.00, 49.00, 50.00, 51.00, 52.00	Superseded by Patch 54.00
Patch 64.00	Superseded by Patch 74.00
Patch 14.00	Superseded by Patch 21.00

Table 2–2 provides a summary of patches in Patch Kit-0001.

Table 2–2: Summary of Base Operating System Patches

Patch IDs	Abstract
Patch 2.00 OSF440CDE-002	<b>Patch:</b> Security (SSRT0571U) <b>State:</b> New. Supersedes patch OSF440CDE-001 (1.00) This patch corrects the following:
	• A potential security vulnerability has been discovered where under certain circumstances users may gain unauthorized access. Compaq has corrected this potential vulnerability.
	• Fixes a problem where the CDE mail interface (dtmail) does not display the date and time of mail messages in the Message Header list when the time zone is set to certain time zones such as GB-Eire.
Patch 3.00	Patch: Security (SSRT0585U)
OSF440CDE-003	State: New
	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 4.00 OSF440CDE-004	Patch: Security (SSRT0580U) State: New
	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 5.00	Patch: : dtfile May Leave Defunct Processes
OSF440CDE-005	State: New
	Fixes a problem where the CDE File Manager (dtfile) sometimes left defunct processes.
Patch 6.00	Patch: Security (SSRT0600U)
OSF440CDE-006	State: New
	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 7.00	Patch: dxcalendar Reminder Displays Through dxpause Screen
OSF440DX-001	State: New
	Fixes the problem where the dxcalendar reminder displays through the pause screen (dxpause) and remains on the top of the pause window.
Patch 8.00	Patch: Fix For POP Mail Handler
OSF440-010	State: New
	This patch corrects the following:
	<ul> <li>Netscape Mail clients are unable to access their mailboxes after an initial session. The /usr/spool/pop/username.lock file is left over and must be removed manually.</li> </ul>
	• The POP mail handler fails to properly rename its temp file after receiving a quit command.
Patch 11.00	Patch: Security (SSRT0596U)
OSF440-013	State: New
	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 12.00	Patch: Security (SSRT0567U)
OSF440-014	State: New
	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 16.00	Patch: Fixes Kernel Memory Fault Caused By SMP Race
OSF440-018	State: New
	Fixes a kernel memory fault caused by a streams SMP race condition.

Patch 17.00	Patch: Fix For BIND Server
OSF440-019	State: New
	This patch corrects the following:
	<ul> <li>Fixes a problem in which a BIND server may find that named will place a warning message in the daemon.log that was not previously seen.</li> </ul>
	<ul> <li>Fixes a problem in which a BIND server writes files to the /etc/namedb directory instead of the /var/tmp directory.</li> </ul>
Patch 18.00	Patch: Resolves Corrupt EV6 Binary Error Log Entries
OSF440-002	State: New
	Resolves corrupt EV6 binary error log entries for IOP detected UDE (Uncorrectable Data Error) packets on AlphaServer 8200/8400 platforms.
Patch 19.00	Patch: Fix For yacc
OSF440-020	State: New
	Fixes a problem in yacc that causes it to generate parse tables that result in the parser not executing a user-specified error recovery action. If a yacc specification worked in Version 3.2 and no longer works in 4.0, this may be the problem.
Patch 20.00	Patch: Cannot Use ipcs Cmd On System Not Booted With vmunix
OSF440-022	State: New
	Corrects a problem that prevents a user from using the ipcs command on a system whose kernel has been booted from a file that is not /vmunix.
Patch 21.00	Patch: Fix For XTI And DECnet/OSI
OSF440-023A	State: New. Supersedes patch OSF440-016A (14.00)
	This patch corrects the following:
	• Fixes a problem in which an application using the X/Open Transport Interface (XTI) and the DECnet/OSI transport provider is unable to disconnect a rejected request.
	• Fixes a streams problem in libxti. The t_getprotaddr() function will cause a memory core dump if either of its second or third argument is NULL.
Patch 22.00	Patch: automount Daemon Hangs
OSF440-024	State: New
	Fixes a problem in which the automount daemon hangs when invoked by the rsh command.

Table 2–2: Sum	nmary of Base Operating System Patches (cont.)		
Patch 25.00 OSF440-028	<b>Patch:</b> Fix For ksh, file, tail, nawk, awk, And pax <b>State:</b> Supersedes patches OSF440-017 (15.00), OSF440-026 (23.00), OSF440-027 (24.00) This patch corrects the following:		
	<ul> <li>Fixes a problem with /usr/bin/ksh and the named-pipe (FIFO) communication that is used by applications.</li> </ul>		
	<ul> <li>Corrects a problem that was causing ksh to core dump in vi editing mode. ksh was core dumping intermittently when using '.' to repeat a command.</li> </ul>		
	<ul> <li>ksh does a segmentation fault and core dumps when displaying a here-document.</li> </ul>		
	• Fixes problems in ksh, file, tail, nawk, awk and pax:		
	<ul> <li>Unexpected logouts and terminal hangups occur when using the /bin/su command and /bin/ksh as a login shell.</li> </ul>		
	<ul> <li>The file command gives incorrect output concerning WAV audio files.</li> </ul>		
	<ul> <li>The tail command gives erroneous output when used with both the -n and -r flags.</li> </ul>		
	<ul> <li>The maximum number of fields per record was changed from 99 to 199 for the awk command.</li> </ul>		
	<ul> <li>The tar/pax program did not always read the last tape record of an archive. This caused confusion for scripts that were reading a series of archives on the no-rewind device.</li> </ul>		
Patch 26.00	Patch: Fix For defragment -V Option		
OSF440-029	State: New		
	Fixes a problem with the defragment command, where the -V option is not being parsed properly.		
Patch 28.00 OSF440-030	Patch: Security (SSRT0556U) State: New		
051 440-050	A potential security vulnerability has been discovered, where under certain circumstances users may gain unauthorized access. Compaq has corrected this potential vulnerability.		
Patch 31.00	Patch: Security (SSRT0563U)		
OSF440-033A	State: New. Supersedes patch OSF440-032 (30.00)		
	This patch corrects the following:		
	<ul> <li>A potential security vulnerability has been discovered where under certain circumstances users may gain unauthorized access. Compaq has corrected this potential vulnerability.</li> </ul>		
	• Fixes a problem with the mount command where it sometimes kills other processes.		
Patch 32.00	Patch: mkdir -p Not Returning Error		
OSF440-034	State: New		
	Fixes a problem with the "mkdir -p" command. "mkdir -p" would not return an error if the last component in the pathname already exists.		
Patch 34.00	Patch: Fix For kio Subsystem Panic		
OSF440-004	State: New		
	Fixes a panic seen when accessing the kio subsystem (such as with consvar) with improper arguments. The panic was caused by a kernel double-free, and would most likely be seen as a corruption in either the 64 or 96 byte bucket (buckets 2 and 16).		

## 2-4 Summary of Base Operating System Patches

Patch 35.00	Patch: Enhancement For verify Utility
OSF440-040	<b>State:</b> New This enhancement for the /sbin/advfs/verify utility allows it to detect loops in the list of free frags kept in the frags file.
Patch 36.00	Patch: volrootmir -a Cmd Fails
OSF440-041	<b>State:</b> New Fixes a problem wherer the LSM command "volrootmir -a" fails if the source and target disks are not the same type.
Patch 37.00 OSF440-042	Patch: volrecover Not Returning Failed Status Code State: New
USF 440-042	Corrects a problem in which a failure of the volrecover utility will not return a failed status code.
Patch 38.00 OSF440-043	Patch: quotaon Returns Incorrect Error Status State: New
	Fixes a problem in which the quotaon command returned an incorrect error status if the file system did not exist.
Patch 39.00 OSF440-044	Patch: System Panic When Accessing ISO9660 Format CDROM State: New
	Fixes a problem where a system panic will occur when accessing an ISO9660 format CDROM.
Patch 40.00	Patch:
binmail Delivers Only Partial Messages	<b>State:</b> New Binmail corrected to prevent partial delivery of mail messages when disk quota is reached.
Patch 41.00	Patch: Fix For nroff Y2K Problem
OSF440-047A	State: New
	Fixes a Y2K problem with the nroff text formatter in which the years after 1999 are translated to be 19xxx with 'xxx' being the number of years that have passed since 1900. Thus, the year 2010 displays as 19110.
Patch 42.00 OSF440-048	Patch: Fixes For vrestore Command State: New
051 110 010	Fixes two problems with the vrestore command:
	• The command was slow to complete when a partial restore operation was requested.
	• The command failed to ignore extended attribute records for the files which were not requested for a vrestore operation.
Patch 43.00 OSF440-049	Patch: Fix For XTI Over TCP/IP State: New
	Fixes a problem with XTI over TCP/IP when tcp_sendspace and tcp_recvspace have been decreased to 1k. When sending 4k data (using t_snd), the call is successful but no data has been sent and no message is returned.
Patch 44.00	Patch: Fix For Kernel Memory Fault
OSF440-005	<b>State:</b> New Fixes a kmf problem in bucket 2 (64 byte bucket )when the type of SCSI device dynamically changes.

Patch 45.00	Patch: Fix For sort -i Abort Problem
OSF440-051	State: New
	Fixes a problem in which "sort -i a_file >b_file" aborts with message "A line of the input file contains more than 20480 characters." when LANG = da_DK.ISO8859-1.
Patch 46.00	Patch: Shared Library Fix For curses-based Applications
OSF440-052A	State: New
	The keymap used with curses functionality was not in sync with the table contained in the term.h header file. This change corrects that and enables several non-functioning keys in curses-based applications.
Patch 47.00	Patch: vi Puts Server Port INTO PASSALL MODE
OSF440-053	State: New
	Fixes a problem where vi puts the server port into PASSALL MODE (where XON/XOFF is no longer effective). This creates garbage in the file.
Patch 48.00	Patch: DECthreads Library Fix
OSF440-054A	State: New
	Fixes problems in the DECthreads library for Tru64 UNIX. Included in this patch are changes to support Ladebug enhancements and a bug fix for applications which employ SCS threads of different priorities.
Patch 53.00	Patch: Fix For spo_process_rsp Panic
OSF440-006	State: New
	Fixes a panic that occurs when KZPSA resources aren't available to re-enable a channel or a device after a bus reset. The panic string is as follows:
	<pre>panic("(spo_process_rsp) ran out of memory!")</pre>

Patch 54.00 OSF440-060A	<b>Patch:</b> AdvFS volumes Not Setting I/O Byte Transfer Size <b>State:</b> New. Supersedes patches OSF440-036 (33.00), OSF440-056 (49.00), OSF440-057 (50.00), OSF440-058 (51.00), OSF440-059 (52.00)		
	This patch corrects the following:		
	<ul> <li>Corrects a problem where a mount(8) command failure caused the operating system to crash. Instead, the failure will now only cause the AdvFS filesystem domain to shut down.</li> <li>Fixes a problem on systems using the AdvFS filesystem, where the system can panic with the following panic string: <ul> <li>"del_clean_mcell_list: no primary xtnt record"</li> </ul> </li> </ul>		
	<ul> <li>"load_x_cache: bad status from bs_refpg of sbm"</li> <li>Fixes a problem with AdvFS that will cause the system to panic with "kernel memory fault" in audit_rec_build().</li> </ul>		
	• Fixes a problem where the "statfs" system call was reporting incorrect block usage on AdvFS filesets. As a side effect of this problem, the sendmail utility may sleep needlessly (waiting for space to become available).		
	Provides the following fixes and enhancements to AdvFS:		
	<ul> <li>AdvFS volumes were not setting the default I/O byte transfer size to the preferred size reported by the disk drives.</li> </ul>		
	<ul> <li>AdvFS chvol read and write transfer size range was increased.</li> </ul>		
	<ul> <li>The read-ahead algorithm was modified to improve performance under certain conditions.</li> </ul>		
Patch 55.00 OSF440-061	<b>Patch:</b> New Functionality To Detect Unlinked Reference Files <b>State:</b> New. Supersedes patches OSF440-011 (9.00), OSF440-012 (10.00), OSF440-015 (13.00), OSF440-003 (27.00) This patch corrects the following:		
	<ul><li>This patch corrects the following:</li><li>Fixes the following problems:</li></ul>		
	<ul> <li>There was a problem where process accounting data was not written to the accounting file when it was on an NFS-mounted file system.</li> </ul>		
	<ul> <li>Corrects a "simple_lock: time limit exceeded" panic in softclock_scan().</li> </ul>		
	<ul> <li>Fixes a kernel memory fault from socket code. The kernel memory fault results from failing to get a lock on a list of threads which have requested resources on a socket.</li> </ul>		
	• Corrects a problem where a signal is delivered, but not responded to by the target process.		
	<ul> <li>Fixes a panic of "get_color_bucket: empty buckets" when the sysconfig attribute "private-cache-percent" is non-zero.</li> </ul>		
	• Fixes a problem in which deleted files still occupy filesystem space until the last reference on that file gets closed.		
Patch 56.00 OSF440-062	Patch: KZPCA Host Bus Adapter May Hang State: New		
	Fixes a problem in which a system with a KZPCA host bus adapter may hang when the SCSI bus is reset.		
	5 0		

Patch 57.00 OSF440-063	Patch: Fixes Several NFS Problems State: New
	Corrects several NFS problems:
	• Fixes a problem where NFS does not update mtime and atime for special files and named pipes.
	• Fixes a problem that can cause an NFS client application to hang, or causes a "lock already owned by thread" panic when lockmode=4.
	<ul> <li>Fixes a problem where incorrect NFS client locking caused a KFM panic.</li> </ul>
	<ul> <li>fixes a problem where NFS clients may hang in the uninterruptable state.</li> </ul>
Patch 58.00 OSF440-065	Patch: Additional Error Detection for FC Driver State: New
	Adds additional error detection to the FC driver.
Patch 59.00 OSF440-007	Patch: Characters Randomly Repeated Using tip State: New
	This patch corrects the following:
	• When using tip or any other method over the serial com lines to a receiver that sends frequent xoff/xon, characters are randomly repeated.
	• On a DECstation 2000/300, the second com port (tty01) does not get configured. An error message "ksh: /dev/tty01: cannot create" is displayed when the tty01 port is accessed.
Patch 60.00	Patch: Fix For spo_misc_errors errlog Entries
OSF440-008	State: New
	Fixes the cause of the spurious spo_misc_errors errlog entry on 4100 class systems.
Patch 61.00	Patch: Enhancement For makedepend Utility
OSF440X11-001	State: New
	Increases the maximum number of files that one file can depend on in the makedepend utility from 1024 to 4096.
Patch 62.00 OSF440X11-002A	Patch: Fix For Motif Drag-and-Drop State: New
051440711-0024	Fixes a problem with Motif Drag-and-Drop where if a parent drop site was unregistered before a child drop site, subsequently unregistering the child drop site would cause a segmentation fault.
Patch 63.00	Patch: xfs Fails With Segmentation Fault
OSF440X11-003	State: New
	Fixes a problem where the X font server (xfs) sometimes failed with a segmentation fault when it received an invalid request.
Patch 66.00 OSF440-023B	Patch: libxti/libtli Static Library Fix
	<b>State:</b> New. Supersedes patch OSF440-016B (65.00) This patch corrects the following:
	• Fixes a problem in which an application using the X/Open Transport Interface (XTI) and the DECnet/OSI transport provider is unable to disconnect a rejected request.
	• Fixes a streams problem in libxti. The t_getprotaddr() function

Patch 67.00	Patch: mount Cmd Sometimes Kills Other Processes
OSF440-033B	State: New
	Fixes a problem with the mount command where it sometimes kills other processes.
Patch 68.00	Patch: nroff Incorrectly Translates Years After 1999
OSF440-047B	State: New
	Fixes a Y2K problem with the nroff text formatter in which the years after 1999 are translated to be 19xxx with 'xxx' being the number of years that have passed since 1900. Thus, the year 2010 displays as 19110.
Patch 69.00	Patch: Static Library Fix For curses-based Applications
OSF440-052B	State: New
	The keymap used with curses functionality was not in sync with the table contained in the term.h header file. This change corrects that and enables several non-functioning keys in curses-based applications.
Patch 70.00	Patch: libXm Static Library Fix For Motif Drag-and-Drop
OSF440X11-002B	State: New
	Fixes a problem with Motif Drag-and-Drop where if a parent drop
	site was unregistered before a child drop site, subsequently unregistering the child drop site would cause a segmentation fault.
Patch 71.00	Patch: Ladebug Enhancements
OSF440-054B	State: New
	Fixes problems in the DECthreads library for Tru64 UNIX. Included in this patch are changes to support Ladebug enhancements and a bug fix for applications which employ SCS threads of different priorities.
Patch 72.00	Patch: Updates FORE ATM (lfa) driver to Rev. V1.0.14
OSF440-078	State: New
	Updates the FORE ATM (lfa) driver to Revision V1.0.14.
Patch 73.00	Patch: Fix For Powerstorm 4D10T Graphics Board
OSF440-088	State: New
	Fixes various problems with the driver support for the Powerstorm 4D10T (ELSA Gloria Synergy) graphics board.
Patch 74.00 OSF440X11-007	Patch: Fix For Powerstorm 4D10T Graphics Board MARY ELLEN: This description is identical to Patch 73.00.
	State: New. Supersedes patch OSF440X11-004 (64.00)
	This patch corrects the following:
	• Fixes a problem where on systems with a Powerstorm 4D10T (ELSA Gloria Synergy) graphics board, sometimes the graphics board was not initialized properly and failed to work on power-up or when the X server was restarted.
	• Fixes a problem where on systems with a Powerstorm 4D10T (ELSA Gloria Synergy) graphics board, sometimes the X server does not draw lines correctly.

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

Patch 75.00	Patch: chvol Read & Write Transfer Size Increased
OSF440-060B	State: New
	This patch provides the following fixes and enhancements to AdvFS:
	• AdvFS volumes were not setting the default I/O byte transfer size to the preferred size reported by the disk drives.
	AdvFS chvol read and write transfer size range was increased.
	• The read-ahead algorithm was modified to improve performance under certain conditions.

# Summary of TruCluster Software Patches

This chapter summarizes the TruCluster software patches included in Patch Kit-0001.

Table 3–1 lists patches that have been updated.

Table 3–1: Opdated TruCluster Software Patches				
Patch IDs	Change Summary			
Patches 1.00, 2.00, 3.00, 4.00	New			

Table 3-1. Undated TruCluster Software Patches

Table 3–2 provides a summary of patches in Patch Kit-0001.

Patch IDs	Abstract	
Patch 1.00	Patch: Support for Reliable Datagram Messaging	
TCR160-001	State: New	
	Provides Reliable Datagram (RDG) messaging support.	
Patch 2.00	Patch: Fix For asedirector	
TCR160-002	State: New	
	Fixes two problems in the asedirector. The first is an ASE command timeout problem encountered by large ASE services. The second is an incorrect decision made by the asedirector as a result of a failed inquire services command.	
Patch 3.00	Patch: DRD Permissions May Be Lost	
TCR160-003	State: New	
	Fixes a problem where DRD permissions could be lost if a service is modified more than once.	
Patch 4.00	Patch: Fix for Kernel Memory Fault On DRD Client Nodes	
TCR160-004	State: New	
	Fix for kernel memory fault on the DRD client nodes just as or after the DRD server node has initiated MCII hub failover.	

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