# UnixWare 7.1.3 Maintenance Pack 3 Release Notes

November 12, 2003

Dear SCO Customer,

This package contains the UnixWare 7.1.3 Maintenance Pack 3. This Maintenance Pack contains important fixes to your UnixWare system and should be applied at your next maintenance period.

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## I. Software Notes and Recommendations

1. The UnixWare 7.1.3 Maintenance Pack 3 package (uw713mp3.image) should only be installed on:

UnixWare 7.1.3

- 2. If you are performing an in-place upgrade from UnixWare 7.1.1 or Open UNIX 8.0.0 to UnixWare 7.1.3, make sure to reboot the system after applying the update and before applying this maintenance pack.
- 3. If you are installing from images downloaded from the SCO Web or FTP site then in addition to installing this maintenance pack, we strongly recommend that you download and install the latest **nics** and **nd** packages from <a href="http://www.sco.com/support/update/download/uw713list.html">http://www.sco.com/support/update/download/uw713list.html</a>.
- 4. **uw713mp3** is a set and contains the following packages:

**uw713m3** Maintenance Pack 3 package **libc** Runtime Library Package **libthread** Runtime Library Package

Installing **uw713mp3** will update the above runtime libraries as well as installing the **uw713m3** package. The runtime libraries, once installed, are not removable.

- 5. If you have previously installed **uw713mp1** or **uw713mp2**, you can install **uw713mp3** without removing the previous maintenance pack.
- 6. This maintenance pack can not be installed on top of any UnixWare 7.1.3 Update Pack. For example, this maintenance pack can not be installed if **uw713up1** (Update Pack 1) is installed.
- 7. This version of the Maintenance Pack supersedes the following Supplements which may have been withdrawn from the ftp site:
  - uw713mp1 (UnixWare 7.1.3 Maintenance Pack 1)
  - uw713mp2 (UnixWare 7.1.3 Maintenance Pack 2)
  - ptf9000
  - ptf9001
  - ptf9003
  - ptf9004
- 8. uw713mp3 updates sendmail to version 8.12.9 + security fixes from 8.12.10. However, if you previously added a

version of sendmail provided by a vendor other than The SCO Group, then **uw713mp3** will not update that version.

After installing **uw713mp3**, running **sendmail** commands such as the **newalias** command may display the following error message:

```
Warning: .cf file is out of date: sendmail 8.12.9 supports version 10, .cf file is version 9
```

Mail will continue to function. However none of the new features, implemented in the configuration file, will be available unless you edit this file manually. See <a href="http://sendmail.org">http://sendmail.org</a> for further detail.

Only **sendmail** has been updated. SCOadmin has not been updated. The old configuration file has been left in place to allow continued use of the SCOadmin interface.

To avoid the warning message edit /etc/sendmail.cf and change the config file format entry (the first non comment line) from "V9" to "V10". Note that once you edit sendmail.cf manually you will no longer be able to use SCOadmin to manage sendmail.

- 9. If your system hangs on the first reboot following installation of Maintenance Pack 3 and, prior to hanging, it displayed an error message stating that an HBA command timed out, apply the following workaround:
  - Reset the system.
  - 2. When the system displays the UnixWare logo during the boot sequence, interrupt the boot by pressing any key.
  - 3. At the **boot** prompt enter:

```
USE_XAPI C=N boot
```

The system should continue to boot normally.

4. Once the system is running edit /stand/boot and add the following entry:

```
USE_XAPI C=N
```

10. The base and uw713m prototype files lists /usr/include/sys/lxki.h as a file ("^f") but update713 prototype lists this file as volatile ("^v"). So installing uw713mp3 on a system that had been upgraded from UnixWare 7.1.1 or Open UNIX 8 to UnixWare 7.1.3 yields this warning (and keeps the file as volatile):

```
UX: pkginstall: WARNING: /usr/include/sys/lxki.h <shared file is volatile>
```

This warning can be ignored.

- 11. For a list of issues that this Maintenance Pack addresses, please see IV. Comprehensive List of Problems Fixed.
- 12. If you have questions regarding this supplement, or the product on which it is installed, please contact your software supplier or support representative.

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## **II. Installation Instructions**

#### If you are installing the Maintenance Pack from CD:

- 1. Insert the Maintenance Pack CD into the CD Drive.
- 2. As **root**, add the maintenance pack to your system using these commands:

```
$ su -
Password: <type your root password>
# mount /dev/cdrom/cdrom1 /install
# pkgadd -d /install/uw713mp3.image
```

3. As root, add the nics and nd packages present on the CD using the commands:

```
# pkgadd -d /install/nics.image
# pkgadd -d /install/nd.image
```

4. Reboot the system after installing this package.

```
# shutdown - i 6 - g0 - y
```

5. If you see the following message:

```
WARNING: Reapply uw713m3 package. Failure to do so may leave your system in an inconsistent state.
```

then you need to reapply the uw713m3 package. You can do this by repeating step 2.

#### If you are installing the Maintenance Pack from the web or ftp site:

- 1. Download the *uw713mp3.image* file to your server.
- 2. As **root**, change directory to the location of the downloaded image and add the maintenance pack to your system using these commands:

```
$ su -
Password: type your root password
# cat uw713mp3.image | pkgadd -d -
```

3. **NOTE**: We strongly recommend that you also download and install the latest **nics** and **nd** packages from:

http://www.sco.com/support/update/download/uw713list.html

Download and install these packages as instructed in the previous step.

4. Reboot the system after installation is complete:

```
# shutdown - i 6 - g0 - y
```

5. If you see the following message:

```
WARNING: Reapply uw713m3 package. Failure to do so may leave your system in an inconsistent state.
```

then you need to reapply the uw713m3 package. You can do this by repeating step 2.

# **III. Removal Instructions**

**NOTE!** Removal of the **uw713mp3** set is not recommended.

As noted in Section I, the runtime library packages are not removable. Thus when you remove the **uw713mp3** set only the **uw713m3** package is removed.

To remove the maintenance pack:

1. Enter:

```
$ su -
Password: type your root password
# pkgrm uw713mp3
```

2. Reboot the system:

# shutdown - i 6 - g0 - y

# IV. Comprehensive List of Problems Fixed

#### A. Problems fixed in Maintenance Pack 1 and also included in Maintenance Pack 3

uw713mp1 contained the following fixes; these fixes are also included in uw713mp3:

- 1. Prevents system panics previously caused when fusers examines an exiting process.
- Prevents hangs seen on Compaq ML350 and ML370 Systems when hyperthreading (Jackson Technology) is enabled, i.e., when the boot parameter ENABLE\_JT is set to YES. fz526444
- Fixed problems with the CDE desktop help viewer. fz526501
- Provides missing scoadmin filesystem files that were not installed when upgrading from UnixWare 7.1.1 or Open UNIX 8.0.0. fz526550
- 5. Provides updated /usr/include files that were not installed when upgrading from UnixWare 7.1.1 or Open UNIX 8.0.0. fz526552
- Provides a new makewhatis(1M) command that was not installed when upgrading from UnixWare 7.1.1 or Open UNIX 8.0.0. fz526526
- 7. Fixed crash(1M) to recognize changes to the callout structure.
- Fixes issues target disk driver error recovery. fz520729

#### B. Problems fixed in Maintenance Pack 2 and also included in Maintenance Pack 3

uw713mp2 contained the following fixes; these fixes are also included in uw713mp3:

#### **Security Fixes:**

- SECURITY: Closing file descriptors 0, 1 and/or 2 before exec'ing a setuid program can make this program open files under these file descriptors, which have special meanings for libc (stdin/stdout/stderr). Reading or writing to root-owned files can be made possible, since stdin/stdout/stderr==opened\_file. erg712059/fz526562/CSSA-2002-SCO.43
- SECURITY: A rogue talk client is able to cause the talk demon to overrun a buffer, and could be able to compromise a machine running talkd. erg712055/tz521053/CSSA-2002-SCO.42
- 11. SECURITY: Buffer overflow in XPR portion of libnsl library. erg712182/fz526861/CSSA-2003-SCO.7
- SECURITY: A command line buffer overflow in ps command can be exploited. erg712109/fz525292/CSSA-2003-SCO.1
- SECURITY: The implementation of xdr\_array can be tricked into writing beyond the buffers it allocated when deserializing the XDR stream. erg501642/fz525725/CSSA-2003-SCO.7
- 14. SECURITY: Fixed a security vulnerability in the sendmail binary that can be exploited by remote users to gain root access.
  - fz527484/erg712247/CSSA-2003-SCO.5
- 15. SECURITY: When using ftp to transfer a file with a pipe as the first character in its name (for example, |xyz), ftp executes the file on client machine. erg712227/tz527425/CSSA-2003-SCO.3
- SECURITY: uudecode does not validate the filename, it should not write to pipes or symbolic links. erg712093/fz521051/CSSA-2002-SCO.44
- 17. SECURITY: New tunable COREFILE\_SECURE. Privileged, setuid or setgid processes are prohibited from dumping core. A new tunable COREFILE\_SECURE, if tuned to 0, will allow such processes to core dump. fz526524/erg712163

#### **Networking Fixes:**

 Panic in PPP driver - pppwsrv() - due to a race condition. erg501673/fz526330

- 19. Panic in PPP's pcid driver. erg501650/fz525867
- Communication problem between pcid and ppp driver. erg501678/fz526352
- The ttymon process sometimes stops listening to a port after PPP disconnect. erg501634/fz525626
- 22. When receiving data from a TCP socket it may lock up indefinitely with data buffered up in the kernel but never returned to the process.
  erg501604/fz520887
- 23. Connection server fails with the following error: 10/24/02 17: 14: 51; 27209; cs: ioctl() set signal error; errno=22 erg712153/fz526540
- Improved network printing performance. erg712041/fz520932
- 25. If an ftp client host was reset (as in cycling the power) during the data transmission to the server, the ftp-data connection never times out on the server. If the client tries to use the same port after reboot for an ftp transmission, the server responds with EADDRINUSE. erg501703/fz526973
- 26. After removing a network interface, pkgchk nics complains about missing files. erg712152/fz526505
- Repeated logins on virtual terminals (/dev/vt02 ... /dev/vt08) result in file descriptor leakage in ttymon. erg501636/fz525650
- 28. When excessive short-lived rlogin sessions are being created, /var/adm/wtmp and /var/adm/wtmpx get out of sync and must be rewritten. While these files are being rewritten, no one can rlogin to the system. If these files grow quite large, this can take up to 20-30 minutes. Also under heavy load the short-lived rlogin sessions may leave in utmp the entries from sessions that have actually completed. fz526496/erg712151
- 29. KMA corruption in tcp. fz521356/erg712086
- Can't write to /dev/\_tcp/num tty device (rlogin connection). erg712250/fz526110
- Occasionally bind() returns EADDRINUSE for no apparent reason. erg712209/fz527217
- 32. Fixed tape driver bug relating to SAN attached tape drives. erg712195/tz526396
- Status requests are not being automatically generated for a network printer if it is very busy resulting in job ids not being freed. erg501666/fz526164
- 34. Hangs and delays in streams caused by streams routines unnecessarily allocating large physically contiguous buffers.

  fz527550/erg712266
- 35. Panic in tco\_close. fz527439/erg712230
- Fixed an NFS panic which can occur following certain types of transmission errors. fz526648
- Cleaned up code which handles dispatching of tcp timers. fz526796

#### **Compatibility Fixes:**

- 38. Added minor command modifications required by the Open Group for UNIX certification. For details, see V. Supplementary Documentation. fz526395/fz526629/fz527377
- 39. Fixed system call restart code for OpenServer applications. Also modified code for the connect system call so that connect is properly restartable for OpenServer applications.
- System hangs during boot up on older (Pentium III and earlier) IBM hardware. fz527522
- 41. Allow use of an ELF interpreter which contains a PT\_NOTES section, as some older OpenServer libraries do. fz527571
- 42. Enable 16-bit IPC IDs for OpenServer and Xenix compatibility. fz527373
- 43. Implement support of MAP\_NOEOF mmap flag for OpenServer applications running on UnixWare. fz527536
- Fix for panic on certain OpenServer binaries. erg550013/fz514721
- chown() arguments of -1 do not work for OSR5 binaries fz526683

#### **Miscellaneous Fixes:**

- 46. emergency\_disk(1M) boot media hangs if machine has > 4GB of memory.
- 47. Fixed an unrecoverable "internal error" experienced by the debug command when reading some core files from threaded applications. Fixed the recently added -m command line option to specify an alternate runtime library path when analyzing core files from other systems. erg501675/fz526224/fz526635/fz526681
- 48. The vtoc driver has been fixed to support disks whose physical sector size is an integral multiple of 512. erg501717/fz527726
- 49. System may refuse to take console input after 248 days, thereby appearing to hang, due to invalid time stamps in the cmux driver. fz527517/erg501720
- 50. The command useradd(1M) allows \$ in usernames (SAMBA requirement) fz526483
- 51. The ksh95 built in pwd command can output pathnames starting with //.
- 52. The command pwck(1M) does not display the line being processed when encountering errors. erg712157/fz518020
- 53. Correctly display version of dump command with -V option. fz518607
- 54. Multithreaded process hangs during exec and is unkillable. fz526750/erg712172
- 55. The kernel can panic in mod\_dev\_load if a DDI8 driver does not get configured properly. fz526791
- PSE memory remains unavailable after dynamically adding memory. erg712235/tz527455
- System hangs in vxfs filesystem. Processes blocked waiting on a call to vx\_iget. erg712184/fz526355
- 58. Added undocumented option noquota to the vxfs mount command to fix the problem where the output of mount -p when used in /etc/vfstab, is rejected by mount with the message: UX: vxfs mount: ERROR: illegal -o suboption -- noquota erg712190/tz526894
- 59. Restore the pre-7.1.3 lookuppn syntax so that third-party provided filesystems continue to work. The extra root vnode argument has been removed from lookuppn. A new lookuppnx function has been created with this extra argument. fz527503
- 60. Fix for sdiadd -n panic on systems with HBA's pre-DDI8. The problem was that sdi\_hot\_add() was not converting the older style SCSI address into the newer extended SCSI addressing scheme properly. The original erg fix set the address to -1's instead of 0's for the wildcard case. The function pdi\_hot will set the SCSI address to all -1's to tell SDI that we want to scan the entire SCSI bus starting from absolute address 0/0/0/0 (controller/bus/target/lun). erg712223/fz527360
- If DNS is not configured, scoadmin mail will not allow any changes in mail configuration. erg712296/fz527783

#### C. Problems fixed in Maintenance Pack 3

uw713mp3 contains these new fixes:

- 62. Fix bug in ps -o time where a process which has accumulated more than 24 hours of CPU time is shown as having accumulated one day more than the actual time.

  erg712295/tz527776
- 63. System panic due to a race condition in tcp timers code. Note: This problem was fixed in uw713mp2 but the problem description was not added to the errata file. erg501722/fz527554
- 64. Lpsched performs poorly when a large number of jobs (200+) are submitted at once. erg501718/fz527462
- 65. If the name of remote system for a remote printer is not found in /etc/lp/Systems, lpsched does not complain at startup and later on coredumps when a status or cancel request is sent to that printer.

  17527931
- 66. Remote print requests remain indefinitely in queue if remote system is down. They do not timeout even if timeout parameter is specified in /etc/lp/Systems for the corresponding remote system.

  fz527934 WARNING: Since by default the timeout is set to 10 minutes, print setups with large network delays may suddenly experience timed-out jobs. For such systems, system administrators should either increase the timeout value or set timeout to "never" to restore old behavior.
- Running sdipath -o repair repeatedly may cause a hang in mpio\_closeAll erg712254/tz527498
- 68. Display per-processor callouts as well as global callouts from the callout command in crash. fz527802
- 69. Kernel panics with a bad read pointer in a STREAMS message block, caused by mishandling of the message block in the STREAMS utility msgpullup and in the IP protocol handling routine ip\_input. erg712321/fz527939
- 70. SECURITY: Fixed exploitable buffer overflows in metamail.

erg712265/fz527543

- 71. When pkgadd fails early on, before any package has been selected, it gives the following message: UX:mailx: WARNING: No message !?! This message was confusing to users and is now not displayed.
- Hyperthreading is disabled (erroneously) on some systems. erg712350/fz528053
- System hangs. Hard hang, unable to dump or break in via kdb. erg712346/fz528045
- SECURITY Drop TCP packets with both SYN & FIN set. erg712274/fz527623
- ksh93 autoload functions invoked within command substitution fail to execute. erg712312/fz527879
- 76. /etc/conf/bin/idconfupdate now creates its .idlock file in /etc/conf instead of /var/tmp. This avoids idtools problems when /var/tmp is not mounted. fz528107/fz528129
- 77. When installing UnixWare on some machines with the nVidia GeForce4 video chipset, the screen goes black and the machines freezes after the initial kernel is loaded and before the language selection screen. erg712344/fz528030
- Large block sized i/o requests failing with Pre-DDI8 HBA drivers. This issue can be easily reproduced by installing ODM and doing Root encapsulation. erg712316/fz527917
- 79. TCP data corruption. erg712389/fz528172
- /u95/bin/ksh users' `w` idle time resets every 10 min. erg712362/fz528070
- 81. Fixed failures mounting/creating vxfs snapshots which indicated that the filesystem is either already mounted, busy, or the allowable number of mount point exceeded when none of these failure conditions were true. erg712361/fz528100
- 82. Some STREAMS ioctls involving multiple message exchanges with the driver may timeout prematurely and return EAGAIN erroneously.

  erg712396/tz528199
- 83. syslogd fails to respond to SIGHUP. erg712414/fz528159
- 84. Support Logical Volumes upto 1TB. mkfs\_vxfs failed on logical volumes > 512GB & fdisk reported invalid cylinders in "1TB boundary" cases. fz520676/erg712311
- 85. traceroute dumps core. fz528035
- 86. panic in realitexpire. erg712352/fz528064
- 87. Fixed kernel stack overflows with Ixuwfs, replacing relatively large stack variables with allocated areas. Matching change made to Ixdevfs. Altered Ixuwfs behavior on attempts to recurse: before the change, it exposed the covered directory; after, it returns ENOENT. Altered the definition of recursion in Ixuwfs, so that it now detects both descent into the same Ixuwfs mount point, and descent into any other Ixuwfs mount point. fz527910/fz528131
- 88. flock() hang when the NFS server is Microsoft SFU (3.0) erg712347/fz528048
- 89. SECURITY CRLF (Carriage Return, Line Feed) injection vulnerability in lynx. erg712379/fz528144
- Panic in specfs, NULL pointer dereference (s\_cp). erg712337/fz528010
- 91. If two arp -d's are called in quick succession, one of the entries may not be deleted. erg711628/fz516107
- 92. The queue command in crash prints garbage at the end of the line. fz528406
- The date command dumps core. Attempting to update the system time using SCOadmin results in an error message, although the time does get updated. erg712397/fz528056
- 94. Updated kcrash. fz528295
- 95. System call entry handler for linux binaries will panic if a real device is attached to the same vector or if a spurious interrupt is received on that vector. erg712348 fz528051
- Embedded EHCI on IBM 8430/13x takes decades to reset. erg501727/fz527381
- EHCI chips that request 64-bit addressing get 'Descriptor load failed during enumeration'. erg501727/fz528043
- 98. Melco/Yedata USB drive tanks with "Inquiry Read failed, unbinding!" when attached. erg501727/fz528046
- Fix the missing charset attribute for Japanese documentation in DocView. fz526356

100. The userdel command dumps core.

erg501732/fz528409

- SECURITY: sendmail char sign extension buffer overflow. erg712276/fz527629
- 102. SECURITY: remotely exploitable vulnerability in sendmail that could allow an attacker to gain control of a vulnerable sendmail server. CSSA-2003-SCO.23.1/erg712433/fz528320
- The rtpm command incorrectly reports it is out of memory and exits. erg712441/fz528135
- 104. The time reported by rtpm gets out of sync with the system clock. erg712393/fz528133
- 105. Shared memory that is in use by a process experiencing a fork failure might not be released. erg712399/fz528204
- System hang; infinite loop in deadflck. erg712154/fz526541
- SECURITY DocView no longer permits certain URLs from reading publicly-readable system files. erg712367/fz528126
- 108. write(2) on a raw socket erroneously returns EISCONN. (fix delivered in uw713m2; errata entry missing) erg501681/fz526404
- 109. xAPIC support for IBM xSeries 440. fz526749
- 110. optimizer bug generated incorrect code for /usr/lib/ppp/psm/ip\_rt snd\_dns() and snd\_dns2() functions.
- 111. cs daemon bug allows 2 child processes to talk to the same device. erg501731 fz527737
- 112. runacct updates wtmp[x] utmp[x] without holding record locks. This can trigger "synchronize" operations, which may take a long time to complete if the files are large. The effect is that other commands e.g. telnet and rlogin are blocked waiting for the housekeeping to finish.

  erg712428 fz528292
- 113. libnsl; deadlock in do\_snddis(). erg712327 fz527968
- 114. SECURITY /proc security fix. erg712482 fz528474
- 115. DocView search index is now generated using a cron job so the administrator does not have to run it manually.
- 116. Enabled DocView Print Book capability to allow users to assemble content for printing a PDF file. fz527196

# V. Supplementary Documentation

The following minor modifications have been made in order to maintain conformance to the UNIX 95 standard:

- The dd command was modified to accept and ignore a double dash (--) as an end of options indicator. Note that dd has no options that begin with a dash (-), so "--" can only appear as the leading argument and consequently has no real purpose.
- The sort command was modified to remove its previous (mistaken) UNIX 95 behavior. Previously, when using sort -c
  with the POSIX2 environment variable set, sort only indicated whether the input was sorted through its exit value. The
  sort command was changed for Release 7.1.3 to remove the dependency on the POSIX2 environment variable, so
  that sort -c will always return a diagnostic if the input is out of order.
- The two supported Korn shells (/bin/ksh and /u95/bin/sh) did not recognize an integer literal with a leading 0 as being
  octal, nor a leading 0x or 0X as hexadecimal in arithmetic constructs. This does not match the intent of the POSIX.2
  and OpenGroup shell specification. So, for example, the following output was seen in previous versions of the Korn
  shell:

```
$ echo $((10+1))
11
$ echo $((010+1))
11
$ echo $((0x10+1))
/u95/bin/sh: 0x10+1: arithmetic syntax error
```

A change was made to work as intended when the POSIX2 environment variable is set:

```
$ export POSIX2=on
$ echo $((10+1))
```

```
11

$ echo $((010+1))

9

$ echo $((0x10+1))

17
```

Note that because integer constants like 010 have a silent change in behavior, this change requires POSIX2 to be set in the environment.

Minor namespace changes to the following header files:

```
arpa/i net. h
netdb. h
neti net/i n. h
neti net/i n6_f. h
netinet/in_f.h
fmtmsg. h
grp. h
l i bgen. h
pwd. h
stdarg. h
strings. h
uni std. h
utmp. h
utmpx. h
wchar. h
sys/fcntl.h
sys/stat.h
sys/statvfs. h
sys/convsa. h
sys/stropts. h
sys/mman. h
sys/socket.h
sys/un. h
sys/regset.h
sys/si gi nfo. h
sys/ucontext.h
sys/fp. h
```

# **VI. File Contents**

```
/etc/conf/bin/idconfupdate
/etc/conf/bin/idinstall
/etc/conf/drvmap. d/usb_ehci
/etc/conf/drvmap. d/usb_msto
/etc/conf/dtune. d/i pc
/etc/conf/dtune. d/proc
/etc/conf/mdevi ce. d/usb_ehci
/etc/conf/mdevi ce. d/usb_msto
/etc/conf/mtune. d/i pc
/etc/conf/mtune. d/proc
/etc/conf/node. d/usb_msto
/etc/conf/pack. d/audi t/Dri ver_atup. o
/etc/conf/pack. d/audit/Driver_mp. o
/etc/conf/pack. d/cdfs/Driver_atup. o
/etc/conf/pack. d/cdfs/Driver_mp. o
/etc/conf/pack. d/cmux/Dri ver_atup. o
/etc/conf/pack. d/cmux/Dri ver_mp. o
/etc/conf/pack. d/elf/Driver_atup. o
/etc/conf/pack. d/elf/Driver_mp. o
/etc/conf/pack. d/fs/Dri ver_atup. o
```

```
/etc/conf/pack.d/fs/Driver mp.o
/etc/conf/pack. d/i net/Dri ver_atup. o
/etc/conf/pack. d/i net/Dri ver_mp. o
/etc/conf/pack. d/i ntp/Dri ver_atup. o
/etc/conf/pack. d/i ntp/Dri ver_mp. o
/etc/conf/pack. d/i o/Dri ver_atup. o
/etc/conf/pack. d/i o/Dri ver_mp. o
/etc/conf/pack. d/i pc/Dri ver_atup. o
/etc/conf/pack. d/i pc/Dri ver_mp. o
/etc/conf/pack. d/i pc/Modstub. o
/etc/conf/pack. d/i pc/space. c
/etc/conf/pack. d/i pc/stubs. c
/etc/conf/pack. d/kd/Dri ver_atup. o
/etc/conf/pack. d/kd/Dri ver_mp. o
/etc/conf/pack. d/krpc/Dri ver_atup. o
/etc/conf/pack. d/krpc/Dri ver_mp. o
/etc/conf/pack. d/linux/Driver_atup. o
/etc/conf/pack. d/linux/Driver_mp. o
/etc/conf/pack.d/linux/Modstub.o
/etc/conf/pack. d/lxdevfs/Driver_atup. o
/etc/conf/pack. d/l xdevfs/Dri ver_mp. o
/etc/conf/pack. d/l xuwfs/Dri ver_atup. o
/etc/conf/pack. d/l xuwfs/Dri ver_mp. o
/etc/conf/pack. d/mem/Driver_atup. o
/etc/conf/pack. d/mem/Dri ver_mp. o
/etc/conf/pack.d/memfs/Driver_atup.o
/etc/conf/pack. d/memfs/Driver_mp. o
/etc/conf/pack. d/mod/Dri ver_atup. o
/etc/conf/pack. d/mod/Dri ver_mp. o
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/usr/share/html doc/fonts/Couri er-Bol d0bl i que. pfa
/usr/share/html doc/fonts/Couri er-Obl i que. afm
/usr/share/html doc/fonts/Couri er-Obl i que. pfa
/usr/share/html doc/fonts/Couri er. afm
/usr/share/html doc/fonts/Couri er. pfa
/usr/share/html doc/fonts/Hel veti ca-Bol d. afm
/usr/share/html doc/fonts/Hel veti ca-Bol d. pfa
/usr/share/html doc/fonts/Hel veti ca-Bol d0bl i que. afm
/usr/share/html doc/fonts/Hel veti ca-Bol d0bl i que. pfa
/usr/share/html doc/fonts/Hel veti ca-Oblique. afm
/usr/share/html doc/fonts/Hel veti ca-Oblique.pfa
/usr/share/html doc/fonts/Hel veti ca. afm
/usr/share/html doc/fonts/Hel veti ca. pfa
/usr/share/html doc/fonts/Symbol.afm
/usr/share/html doc/fonts/Symbol.pfa
/usr/share/html doc/fonts/Ti mes-Bol d. afm
/usr/share/html doc/fonts/Ti mes-Bol d. pfa
/usr/share/html doc/fonts/Ti mes-BoldItalic. afm
/usr/share/html doc/fonts/Ti mes-Bol dI tal i c. pfa
/usr/share/html doc/fonts/Times-Italic. afm
/usr/share/html doc/fonts/Times-Italic.pfa
/usr/share/html doc/fonts/Ti mes-Roman. afm
/usr/share/html doc/fonts/Ti mes-Roman.pfa
/usr/ucblib/makewhatis
```

# VII. Escalation Fixes in this Maintenance Pack

```
erg712230/fz527439, erg712235/fz527455, erg712250/fz526110, erg712254/fz527498,
erg712265/fz527543, erg712266/fz527550, erg712274/fz527623, erg712276/fz527629,
erg712295/fz527776, erg712296/fz527783, erg712311/fz520676, erg712312/fz527879,
erg712316/fz527917, erg712321/fz527939, erg712327/fz527968, erg712337/fz528010,
erg712344/fz528030, erg712346/fz528045, erg712347/fz528048, erg712348/fz528051,
erg712350/fz528053, erg712352/fz528064, erg712361/fz528100, erg712362/fz528070,
erg712367/fz528126, erg712379/fz528144, erg712389/fz528172, erg712393/fz528133,
erg712396/fz528199, erg712397/fz528056, erg712399/fz528204, erg712414/fz528159,
erg712428/fz528292, erg712441/fz528135, erg712482/fz528474,
fz199364, fz518517, fz518607, fz520729, fz526356, fz526395,
fz526444, fz526462, fz526483, fz526501, fz526526, fz526550,
fz526552, fz526629, fz526648, fz526683, fz526749, fz526791,
fz526796, fz527264, fz527373, fz527377, fz527503, fz527522,
fz527536, fz527571, fz527578, fz527750, fz527802, fz527910,
fz527931, fz527934, fz528035, fz528107, fz528129, fz528131,
fz528222, fz528295, fz528406, fz526593, fz527196
```

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