UnixWare 7.1.4 Maintenance Pack 2 Release Notes

February 2005

```
Dear SCO Customer,

This CD contains UnixWare 7.1.4 Maintenance Pack 2. This Maintenance Pack
contains important fixes to your UnixWare system and should be applied at
your next maintenance period.

   ------------------------------------------------------------------------

Contents

    I. Software Notes and Recommendations.
   II. Installation Instructions.
  III. Removal Instructions.
   IV. Custom CD Creation Instructions.
    V. Comprehensive List of Problems Fixed.
       A. Problems Fixed in Maintenance Pack 1.
       B. Problems Fixed in Maintenance Pack 2.
   VI. List of Known Issues.
  VII. File Contents.
 VIII. Escalation Fixes in this Maintenance Pack.
   IX. Copyrights.

   ------------------------------------------------------------------------

I. Software Notes and Recommendations.

   1. The UnixWare 7.1.4 Maintenance Pack 2 should only be installed on:

      UnixWare 7.1.4

   2. If you are performing an in place upgrade to UnixWare 7.1.4 from
      UnixWare 7.1.1, UnixWare 7.1.2 (Open UNIX 8.0.0), or UnixWare 7.1.3,
      you must reboot the system after upgrading and before installing this
      maintenance pack.

   3. This maintenance pack consists of the following sets and packages:

      o uw714mp2  - UnixWare 7.1.4 Maintenance Pack 2 Set

        This set contains the following packages:

        uw714m2   - UnixWare 7.1.4 Maintenance Pack 2 package
        libc      - Runtime C Library package, version 8.0.2b
        libthread - Runtime Thread Library package, version 8.0.2a
        pam       - Pluggable Authentication Modules, version 0.77

        Please note that the libthread and pam packages have not changed
        since they were last updated for Maintenance Pack 1.

      o uw7mpdoc  - Updated Base System Guides, version 7.1.4a

        Please note that this package has not been updated for this
        maintenance pack. DocView will hence continue to show the maintenance
        pack as UnixWare 7.1.4 Maintenance Pack 1.
```

o Twenty updated packages:

```
cups      - Common Unix Printing System, version 1.1.19-03
foomatic  - Foomatic Filters and PPDs, version 3.0.2
hpijs     - HP Inkjet Printer Driver, version 1.5-02
ldap      - Lightweight Directory Access Protocol services,
            version 8.0.1a
libosr    - Runtime OpenServer Libraries, version 8.0.2a
libpng    - PNG (Portable Network Graphics) Library, version 1.2.7
nd        - Network Drivers, version 8.0.2b
nics      - Network Infrastructure and Configuration Subsystem,
            version 8.0.2b
openssh   - Open Secure Shell, version 3.9p1-01
openssl   - Open SSL/TLS Cryptography Toolkit, version 0.9.7d
openssld  - OpenSSL Documentation, version 0.9.7d
samba     - Samba, version 3.0.10
squid     - Squid Caching Proxy Server, version 2.5.STABLE7
uccs      - OUDK Optimizing C Compilation System, version 8.0.2b
zlib      - General Purpose Data Compression Library,
            version 1.2.1-01
basex     - X11R6 Base X Runtime System, version 8.0.2a
xserver   - X11R6 X Server, version 8.0.2b
xclients  - X11R6 X Clients, version 8.0.2a
xcontrib  - X11R6 Contributed X Clients, version 8.0.2b
xdrivers  - X11R6 Graphics Drivers, version 8.0.2a
```

Please note that the openssl and openssld packages have not changed since they were last updated for Maintenance Pack 1.

o Two new optional packages:

```
ipf       - IP Filter, version 4.1.3
modjk1    - Additional Modules for Perl, version 2.0.4
```

Please note that the modjk1 package has not changed since it was last provided with Maintenance Pack 1.

4. An install.sh script is provided to simplify installation, as described in the Installation Instructions section below. Use of this script is highly recommended.

The install.sh script installs the following:

o The uw714mp2 set.

Installing uw714mp2 will update the libc and libthread runtime libraries as well as installing the uw714m2 and pam packages. The runtime libraries, once installed, are not removable.

o The uw7mpdoc package.

o Newer versions of the updated packages listed above, provided earlier versions of these packages are already installed on your system.

Alternatively, with care you can install the packages individually. However, you should note the following:

o The uw714mp2 set is required for all systems.

o The following packages are required to be updated, that is you need to install them if you have an earlier version installed on your system:

cups, openssh, samba, xcontrib

o The following packages are strongly recommended:

      foomatic, libpng, nd, nics, openssl, squid, uccs, zlib, xserver,
      xdrivers

   o All other packages are optional.

   If you did not install some of the above packages when initially
   installing UnixWare 7.1.4, you can do so using the install.sh script.
   You do not need to first install the original UnixWare 7.1.4 version.
   Please refer to the Installation Instructions section below.

5. A mkiso.sh script is provided with this maintenance pack to create
   custom maintenance pack ISO image files and/or CDs from the original
   maintenance pack ISO image file or CD, as described in the Custom CD
   Creation Instructions section below.

   Notes:
   o To use this feature, you need the cdrtools package installed.
   o To burn the custom ISO image file, you also need a writable CD drive
     and CD Media.

6. This maintenance pack supersedes and obsoletes:

   uw714mp1 - UnixWare 7.1.4 Maintenance Pack 1 Set
   ptf9050   - The UnixWare 7.1.4 Licensing Supplement

   These packages and sets do not need to be removed prior to installing
   uw714mp2.

   The installation of uw714mp2 will also lock down these packages and
   they will no longer be removable.

7. This maintenance pack contains security enhancements, including
   changes to numerous file and directory permissions. To obtain the full
   advantage of these enhancements on systems that contain the obsolete
   scohelp package, it is recommended that you remove the scohelp package
   prior to installing this maintenance pack. The SCOhelp documentation
   server has been replaced by DocView since UnixWare 7.1.3. If you have
   upgraded from a prior release, you can check for the existence of the
   scohelp package on your system with the command:

      pkginfo scohelp

   To remove the package, type the following command as root:

      /etc/scohelphttp stop

   Followed by:

      pkgrm scohelp

8. If you install a package (say acp) from the UnixWare media kit that has
   been updated by the maintenance pack on a system with the maintenance
   pack installed, you will see the following warning message:

      The <acp> package was installed after installing the <uw714m2> package.

      WARNING:
      The <uw714m2> package contains updates to the above package(s).

      Please reinstall the <uw714m2> package. Failure to do so may leave
      your system in an inconsistent state.

   This warning message will be displayed after every pkgadd until you
   reinstall the uw714m2 package. To do this, mount the maintenance pack
   CD and type:

      pkgadd -d /mount_point/images/uw714mp2.image uw714m2

Then reboot your system:

        shutdown -i6 -g0 -y

9. For a list of issues that this maintenance pack addresses, please see
   the Comprehensive List of Problems Fixed section below.

10. For a list of known issues with this maintenance pack, please see the
    List of Known Issues section below.

11. If you have questions regarding this supplement, or the product on
    which it is installed, please contact your software supplier or support
    representative.

II. Installation Instructions.

1. Log in as root.

2. If you are installing the maintenance pack from CD, insert the
   maintenance pack CD into the primary CD drive and type:

        mount /dev/cdrom/cdrom1 /install

   If you are installing this maintenance pack from the web, download the
   uw714mp2.iso file to your server from:

        http://www.sco.com/support/update/download/release.php?rid=58

   In the directory where you downloaded the uw714mp2.iso file, type:

        mount `marry -a uw714mp2.iso` /install

3. Change directory to /install:

        cd /install

4. To install the required uw714mp2 set and the updated packages on your
   system, type:

        ./install.sh [-nv]

   This will show you a menu screen listing the names of the packages that
   are part of this maintenance pack.

   By default, uw714mp2, uw7mpdoc, and updated packages whose earlier
   versions are already installed on your system are selected for
   installation.

   The packages whose earlier versions are not installed on your system
   are not selected for installation.

   The packages whose later versions are installed on your system are
   not listed.

   Select the packages that you want to install on your system and press
   "Apply" to continue. Since the menu screen can only display ten
   packages at a time, pressing "Apply" will show the next list of
   packages. Pressing "Apply" on the final screen will install the
   selected packages.

   The optional -n (non-interactive) flag skips the menu screen and
   proceeds to install the default selection of packages.

   The optional -v (verbose) flag provides more status information during

the installation.

  5. To individually install packages and sets, run the following command:

         ./install.sh [packages]

     where packages can be any of the packages listed in section I.

  6. After all desired packages are installed, reboot the system by typing:

         shutdown -i6 -g0 -y

III. Removal Instructions.

  1. Log in as root.

  2. To remove the maintenance pack set (except for its library packages,
     which are not removable), type:

         pkgrm uw714mp2

     Notes:
     o Removal of the uw714mp2 set is not recommended.
     o The IP Filter (ipf) and Open Secure Shell (openssh) packages are
       functionally dependent on the uw714m2 package. These packages will
       not work if uw714m2 is removed.

  3. To fully restore your system to its prior state, reinstall the
     UnixWare 7.1.4 media kit version of the updated packages.

     Note: Removal of the updated packages is not recommended.

  4. After all the packages are removed, reboot the system by typing:

         shutdown -i6 -g0 -y

IV. Custom CD Creation Instructions.

  1. Follow steps 1 to 3 of section II.

  2. Type

         ./mkiso.sh

     This will ask you the name of the ISO image file. Default is
     /uw714mp2.iso.

     This will then show you a menu screen listing the names of the packages
     that are part of this maintenance pack.

     By default all packages are selected.

     Unselect the packages that you want to exclude from your custom CD.
     and press "Apply" to continue. Since the menu screen can only display
     ten packages at a time, pressing "Apply" will show the next list of
     packages. Pressing "Apply" on the final screen will create the CD ISO
     image file.

     Note: The uw714mp2 package cannot be unselected.

  3. To burn the ISO image file, insert the CD media in you CD drive and
     type:

```
        cdrecord -v -dao -speed=16 -fs=10m \
              -dev=1,0,1 -driveropts=burnfree filename
```

```
    where
```

```
        dev should be the SCSI target for the CD drive.
        filename should be the name of your custom ISO image file.
```

```
     Please refer to the cdrecord(1) man page for details.
```

V. Comprehensive List of Problems Fixed.

   A. Problems Fixed in Maintenance Pack 1:

   The UnixWare 7.1.4 Maintenance Pack 1 set (uw714mp1) contains the
   following fixes. These fixes are also included in UnixWare 7.1.4
   Maintenance Pack 2 set (uw714mp2).

   o uw714m1 package fixes:

      Feature and usability enhancements:

      1. The following UnixWare 7.1.4 functionality is now provided:

         o Pluggable authentication modules (PAM) support
         o Encrypted file system support

         These features are described in the online documentation that is
         provided with the uw7mpdoc package that accompanies this maintenance
         pack. See the "New Features and Notes" section of the online
         documentation.
         fz528611 fz529097

      2. Intel microcode updates.
         erg712621/ptf9050/fz529619

      3. kcrash macros updates.
         fz529663

      4. Additional source files for DBA usage with MySQL provided with the
         SCOx enablement package. Modified Makefile, eelsdba_mysql.c,
         initdb.mysql and README are provided for use with latest MySQL
         package.
         fz529851

      5. Enabled large file support in compress.
         fz529876

      Security improvements:

      6. SECURITY: Some files and directories were created incorrectly
         allowing write permission to arbitrary users. Some system daemons
         were running with a file creation mask (umask) set to 0.
         fz528862

      7. SECURITY: Security vulnerability issues in TCP are fixed according
         to this IETF draft:
         http://www.ietf.org/internet-drafts/draft-ietf-tcpm-tcpsecure-00.txt
         erg712598/fz529384

      8. SECURITY: Two new inconfig tunables have been introduced to address
         the TCP Rose Attack:

         o ip_maxfragpackets:

```

This is the maximum number of fragmented packets that IP will
accept.  The default is 800.

- o ip_maxfragsperpacket:
  This is the maximum number of fragments per packet that IP will
  accept. The default is 16.

erg712605/fz529414 SCOSA-2005.14

Reliability improvements:

9. Fixed panic on errant umem_free() in [g|s]etgroups_sco.
   fz528775

10. Fixed a memory corruption bug caused by not stopping netbios when
    the system was brought to init state 1.
    ptf9050b/fz529565

11. Fixed process hangs due to race between exiting children and SIGCLD
    processing in the parent.
    erg712596/fz529361

Networking improvements:

12. Changed use of types u_[short,int,long] to u[short,int,long]_t in
    <netinet/tcp.h> since the former are not always defined.
    fz529581

13. The SHUT_RD, SHUT_WR, and SHUT_RDRW macros in <sys/socket.h> are
    defined only when at least one XOPEN-ish feature test macro is
    defined. This is counter to our "everything visible by default"
    model for headers.

    The TOG SUS says that SHUT_* macros can be defined in general, so
    there's no reason not to define these with no conditional inclusion
    coverage.
    fz529698

14. Under some circumstances, ppp could go into an infinite loop of read
    calls in the libnsl ics_read_data() routine.
    erg712620/fz529611

Installation tools improvements:

15. By the time pkgadd executes the preinstall script of a package, it
    has already updated the contents file with the information from the
    package's pkgmap file. Hence if the preinstall script is terminated
    for some reason, the contents file is left in a bad state - the
    files are not installed on the system but they are present in the
    contents file. This has been fixed so that the contents file is not
    updated until the files are installed.
    fz519105

16. Fixed a problem where pkginstall, pkgremove and installf can destroy
    the software contents file if it is already locked by another
    process.
    fz198541

Licensing improvements:

17. The license policy daemon ignores custom licenses from earlier
    releases. For example, if your system license had previously
    included extra users, not separately licensed but included in your
    original, those users would be ignored. This has been fixed.
    ptf9050a/fz529560

o Runtime C Library (libc) version 8.0.2a fixes:

18. Bad parsing of some special strings in string-to-floating code.
    fz529765

o Runtime Thread Library (libthread) version 8.0.2a fixes:

19. Oracle may hang while starting by going into an infinite loop in
    libthread's thr_keycreate().
    erg712658/fz529884

Additional bug fixes and enhancements were provided with the supplemental
packages that were distributed with UnixWare 7.1.4 Maintenance Pack 1.
These fixes are also included in the supplemental packages provided with
UnixWare 7.1.4 Maintenance Pack 2.

o Documentation:

1. The Updated Base System Guides (uw7mpdoc) package, version
   7.1.4a, provides documentation for the PAM, encrypted file system,
   modjk1, and Samba features delivered with uw714mp1 and its
   supplemental packages.

o PAM:

2. The following supplemental packages have been updated to enable
   support for PAM. They can only be installed if the pam package
   (contained in uw714mp2 set) is installed:

   cups     - Common Unix Printing System, version 1.1.19-02
   openssh  - Open Secure Shell, version 3.8.1p1
   samba    - SMB based file/printer sharing, version 3.0.4
   xcontrib - X11R6 Contributed X Clients, version 8.0.2a

o The Foomatic Filters and PPDs (foomatic) package, version 3.0.0-02,
  and the HP Inkjet Printer Driver (hpijs) package, version 1.5-01,
  contain this fix:

3. Fixed obscure corruption of a few data files.
   fz529615

o The Netdriver Infrastructure and Configuration Subsystem (nics)
  package, version 8.0.2a, contains this fix:

4. A time delay of 1 sec in dlpiclose() was causing some applications,
   e.g. getmany (accessing mib-2 table) to consume large amounts of CPU
   time. This time delay ensured that all in-transit packets were
   processed before closing the SAP.

   This delay is removed and the code reworked to use message based
   synchronization during closedown.

   dlpiclose() now constructs a M_CTL packet containing a message of
   type dl_ctlmsg_t. This message contains DLPI primitive set as
   DL_CLOSESAP and a pointer to the SAP structure.

   This message is queued at the DLPI lower read queue so that
   dlpilrsrv will handle it. It then goes to sleep. When dlpilrsrv
   receives this message, it is assured that all messages before it
   have been sent upstream, i.e., there are no in-transit packets.
   dlpilrsrv signals dlpiclose to close the SAP.

   erg712282/fz526486

o The Open Secure Shell (openssh) package, version 3.8.1p1, contains
  these fixes:

5. OpenSSH has been updated from version 3.7.1p2 to 3.8.1p1 and

support for PAM has been enabled.

Please see the openssh website for the list of changes.
http://www.openssh.com

fz528611

6. SECURITY: OpenSSH only gives significance to the first 8
   characters of a password.
   erg712648/fz529827 SCOSA-2005.19

o The OpenSSL - Secure Sockets Layer / TLS Cryptography Toolkit
  (openssl) package, version 0.9.7d, contains this fix:

7. SECURITY: OpenSSL has been updated from version 0.9.7c to 0.9.7d to
   fix several security issues with the earlier version.

   Please see the openssl website for the list of changes.
   http://www.openssl.org

   erg712602/fz529411 SCOS-2005.7

o The OpenSSL Documentation (openssld) package, version 0.9.7d, provides
  the updated documentation for the openssl package version 0.9.7d.

o The SMB based file/printer sharing (samba) package, version 3.0.4,
  contains these fixes:

8. Samba has been updated from version 3.0.0 to 3.0.4 to enable PAM
   and to provide multibyte support.

   Please see the samba website for the list of changes.
   http://www.samba.org/samba

   fz529665

9. Swat server status page shows smbd "not running" even when it is.
   fz528969

o The OUDK Optimizing C Compilation System (uccs) package, version
  8.0.2a, contains these fixes:

10. With the introduction of NSS, SCO has changed some existing APIs
    and added some new APIs to support NSS. Customers building binaries
    that use these APIs will find that their compile will fail with
    undefined symbol references similar to the following:

        Undefined                       first referenced
        symbol                          in file
        getspnam_r                      libperl.so
        getpwent_r                      libperl.so
        getgrent_r                      libperl.so

    Note:
    This problem is only seen in systems upgraded from earlier UnixWare
    releases to UnixWare 7.1.4.

11. C compiler bug fixed. In -Xt mode, the compiler may incorrectly
    attempt to combine two typedef's that are not numeric types.
    erg712635/fz529721

12. Make command bug fixed. $(XD:str=rep) broken, where X is any of
    the @*<%? special characters.
    erg712665/fz529930

o The X11R6 X Server (xserver) package, version 8.0.2a, contains this
  fix:

13. SECURITY: Some files and directories were created incorrectly
    allowing write permission to arbitrary users. Some system daemons
    were running with a file creation mask (umask) set to 0.
    fz528862

o The Additional Modules for Perl (modjk1) package, version 2.0.4,
  contains this fix:

14. Provides the modjk connector for Apache 1 and Tomcat. Apache 2
    users do not need this package.

    Notes:
    o This package is not installed by default.
    o This package will not conflict with modjk for Apache 2 & Tomcat as
      the library is installed in a different location.

    fz529629

B. Problems Fixed in Maintenance Pack 2:
----------------------------------------

The UnixWare 7.1.4 Maintenance Pack 2 set (uw714mp2) contains the
following fixes.

o uw714m2 package fixes:

  Feature and usability enhancements:

  1. Updated Laptop PC Card support to include CardBus support.
     fz529602

  2. Updated /sbin/p6update to support new Intel Prescott and Nacona
     processors.  Includes additional microcode updpates.
     fz530177

  3. Enhanced /etc/hw command to decode Pentium 4 cache size information
     and system memory sizes in excess of 4Gb.
     fz525623
     fz528909

  4. Added lsof command version 4.73.

     Lsof is a UNIX-specific tool.  Its name stands for LiSt Open Files,
     and it does just that.  It lists information about files that are
     open by the processes running on a UNIX system.

     The lsof provided is compiled with the following flags:
     -DINKERNEL -Kthread -Kalloca -O2

     See the complete copyright notice at the end of this file.
     fz530110

  5. Increased the number of users from 1 to 2 for the default Business
     Edition license.
     fz530379

  6. Added the Japanese Gaigi character definitions to Japanese locales.
     erg712726/fz530392

  7. For X11R6 applications, allow the NumLock key to be used with Motif
     accelerator and mnemonic keys for pulldown menus.  To enable this
     feature, set the environment variable "XMNUMLOCK=ALL" for the
     process.
     erg712703/fz530229

  8. For X11R5 applications, allow both the NumLock key and the CapsLock

key to be used with Motif accelerator and mnemonic keys for
pulldown menus.  It also allows the keypad to be used for text
widgets along with the NumLock key.  To enable this feature, set
the environment variable "XMNUMLOCK=ALL" for the process.
erg712781/fz530229

Security improvements:

 9. SECURITY: A new file system tunable, CHROOT_SECURITY is provided
    to protect against a known exploit for escaping from a chroot
    prison.  The new tunable is described in /etc/conf/dtune.d/fs and
    defined in /etc/conf/mtune.d/fs.  Protection is provided by the
    default value of 1 but traditional behavior may be obtained by
    resetting CHROOT_SECURITY to 0.
    erg712509/fz528555 SCOSA-2005.2

10. SECURITY: ICMP error messages are discarded for TCP connections if
    TCP sequence number in ICMP payroll is not in the range of the
    data already send but not yet acknowledged.
    erg712758/fz530661

11. SECURITY: Fixed the Common Desktop Environment dtlogin XDMCP Parser
    Remote Double Free vulnerability.
    erg712592/fz529303 SCOSA-2005.18

12. SECURITY: Fixed the following Denial of Service vulnerability.
    When the NFS mountd service is run by inetd and an NFS mount related
    request is received from a remote (or local) host, inetd will
    repeatedly create the mountd process and as a result increasingly
    consume memory.  This problem also exists for the following inetd
    services: ypupdated, rusersd, sprayd, and walld.

    To fix this, the mountd service is updated from a "dgram" service to
    a "tli" service.  The socket_type (in /etc/inet.d/inetd.conf) is
    also changed from "dgram" to "tli" for the following inetd
    services: mountd, ypupdated, rusersd, sprayd, and walld.
    erg712731/fz530479 SCOSA-2005.1

13. SECURITY: An upgrade to the KAME implementation of internet key
    exchange (IKE) daemon implementation which includes several
    security fixes.
    erg712650/fz529836 SCOSA-2005.10

Reliability improvements:

14. Fixed kernel panic caused by Merge trying to save FPU state when
    FPU hasn't been used.
    fz529860

15. Fixed various bugs in fork that in turn could lead to panics in
    priocntl.  The fixes had to do with ensuring that per-lwp properties
    were inherited consistently across a fork.
    fz529463

16. Fixed kernel panic that can sometimes occur due to race condition
    between fdetach of a named pipe and the last close on the pipe's
    file descriptors.
    erg711929/fz519727

17. Fixed kernel panic and kernel memory corruptions caused by an
    erroneous pointer left in a STREAMS lower multiplexor queue
    structure during execution of an I_LINK or I_PLINK ioctl.
    erg712470/fz528449

18. Fixed deadlock that can occur if an NMI occurs on one CPU at the
    same time that another CPU takes a clock interrupt and attempts to
    recalibrate the clock.

        erg712722/fz530382

Networking improvements:

19. Fixed bugs in the scoadmin dhcp and address allocation managers
    that cause tcl failures and hangs.
    fz526860
    fz528398
    fz528404
    fz528650
    fz529146
    fz529522

20. For /dev/tcp, /dev/udp and other related device nodes, permission is
    given to root to change access and modification times, and to change
    mode, uid and gid if they are different from the current ones.
    erg712672/fx528399

21. Fixed IP packet filtering.
    erg712619/fz529605

22. Fixed race between tcp input processing and tcp close processing.
    erg712585/fz529161

23. The netstat -I <interface> <interval> command displays output
    incorrectly, if the machine gets a lot of packets in a particular
    interval.
    erg712663/fz529916

24. System gets many "Out of stream" messages in osmlog and panics
    afterwards.
    erg712707/fz530251

25. SNMP time ticks are being interpreted as signed 32-bit integers
    instead of unsigned 32-bit integers
    erg712732/fz530366

26. An errant assumption about the maximum size of tcp/ip header
    including the MAC header and the STREAM headers would not exceed 256
    bytes caused the system to write past the allocated space.  The
    allocation optimization now properly accounts for the MAC header if
    it does not exceed the 256 byte KMA pool size.
    fz530654

27. There was a namespace conflict within the definition of inet_ntoa.
    The kernel version is renamed to inet_ntoa_r.  This helps to ease
    porting of open source applications to UnixWare.
    fz529706

28. Changes to ip_var.h to allow porting of open source applications
    without requiring the inclusion of some UnixWare-specific headers.
    fz529708

29. Moved _tcpconn and tcp_dbg_hdr data structures and associated
    defines from tcp.h to tcp_var.h to allow porting of open source
    applications without requiring the inclusion of some
    UnixWare-specific headers.
    fz530909

USB improvements:

30. Certain USB keyboards exhibit a jitter that is usually seen as
    the repetition of a previous character.
    erg712294/fz527741

31. Fixed a potential problem with newer EHCI USB controllers that are
    controlled by the system BIOS.  The visible symptom is that devices

attached to the EHCI ports of certain systems won't work.
fz530306

32. Low and full speed USB devices attached directly (i.e. not via a
    USB 2.0 hub) to an EHCI controller will get a message logged to the
    console 'Device reset timeout during enumeration!' when they are
    discovered.  The message is benign; the devices work as expected.
    This fix eliminates the cause of the distracting message.
    fz530377

33. Fixed bug in UDI bridge mapper that caused shared PCI interrupts
    to remain un-acknowledged during USB host controller initialization
    leading to system hangs.
    erg712677/fz530090
    erg712699/fz530174

34. Attempting to autoconfigure a USB mouse via the mouseadmin command
    did not work properly, and the mouse test would always fail.  This
    problem would only be encountered by those adding or switching to a
    USB mouse, post ISL, and attempting to autoconfigure it through
    mouseadmin.
    fz530587

Motif library and X improvements::

35. Fixed a bug where the change of background of the Motif Scale
    widget with XtSetValues has no effect if the widget was not realized
    yet.
    erg712682/fz530146

36. Fixed the XmATTACH_OPPOSITE_FORM attachment in the children of a
    Form widget using the incorrect sign of the value, which causes the
    form to resize itself to become smaller and smaller.
    erg712697/fz530166

37. Fixed the display of the Japanese messages in programs based on
    the Athena widgets.

    Note:
    Portions of this fix are contained in the xserver, xclients, and
    xcontrib packages.  These packages must be installed or the
    commands will stop working in Japanese!

    erg712661/fz529890

Misc improvements:

38. Changes to acpi and mps drivers to recognize pci devices that
    were previously not found.  Includes an upgrade to the latest
    version of the acpi driver.
    fz530205
    erg712706/fz530250

39. Online and offline of processors may work incorrectly on systems
    where the processors report more than one logical processor per
    physical package when hyperthreading is disabled in the system BIOS.
    fz530165

40. Fixed problems caused by the Intel ICH3-S chipset occasionally
    returning bad real-time clock values.  Symptom was that some
    platforms may hang on boot with warning messages from
    psm_time_spin_adjust.
    erg712593/fz529317

41. Various "off by one" errors fixed in the interval timer code.
    erg712667/fz529962

42. Disksetup's default blocksize does not work with large VxFS file
    systems.
    erg712615/fz529483

43. Fixed the reserve bitmap buffer setup to wrong channel/snode during
    VxFS snapshot creation, which caused snapshots to be disabled due to
    read i/o failures on good drives.
    erg712644/fz529774

44. init failing to change runlevels.  There was a race condition in the
    waitproc function in the init code that has been fixed.
    erg712313/fz527890

45. System hangs on boot - idmknodd last process run.  There was a race
    condition in the waitproc function in the init code that has been
    fixed.
    erg712607/fz529426

46. Fields incorrectly labeled in rtpm utility in Japanese locale.
    fz530091

47. The auditrpt -f <filename> command is causing segmentation faults on
    some audit report data files.
    erg712760/fz530410

48. The ap command is causing segmentation fault.

    Note: Portion of this fix is in the libc package.

    erg712675/fz530046

49. The creatiadb command is not working.
    erg712678/fz530093

50. The ps command will now report NI values as set by nice(2), rather
    than always displaying a 0 in that output column.  This is only a
    compatibility measure and does not imply that the value set by
    nice(2) will affect scheduling behavior.
    fz530118

51. Printer manager GUI hangs while adding local printers on a freshly
    installed system.
    fz530092

52. C++ template instantiation fails when object file has non-.o suffix
    To fix this, .ti and .ii suffixes now append to, rather than
    replace, non-.o object suffixes.
    fz530247

53. A function call argument that is an expression with "side effects",
    cannot be used directly more than once when doing function inlining.
    A C++ "? :" expression, in which the third operand (conditionally
    evaluated) created a short-lived temp class object, was incorrectly
    replicated when replacing a multiply-referenced parameter in an
    inlined function.
    fz530178

54. For NIS systems, correct lookup-by-GID failure.

    Note: Portion of this fix is in the libc package.

    fz530952

55. We now have libcrypto.so from openssl package also and it defines
    _des_crypt() which is also defined by libcrypt.so.  Updated
    libcrypt.so to use its own definition so that things remain sane.
    fz530438

56. Updated the /usr/lib/apache/conf/httpd.conf file if apache-1.3.29 and
    php-4.3.5 are installed, or the /opt/apache2/conf/conf.d/php4.conf
    file if apache2-2.0.49 and php4-4.3.5 are installed, with:

    AddType application/x-httpd-php .php .php3 .inc .phtml
    AddType application/x-httpd-php-source .phps

    In future, installation of php or php4 should update these files.
    fz529730

57. Fixed Tomcat 4.1.30 start script to implement a nohup.
    In future, this will be fixed in the tomcat package.
    fz530103

58. Fixed the Perl 5.8.3 configuration files to remove build pathnames.
    In future, this will be fixed in the perl package.
    fz530344

59. Fixed a syntax error in Mozilla start script.
    In future, this will be fixed in the mozilla package.
    fz530539

o Runtime C Library (libc) version 8.0.2b fixes:

  Note:
  All fixes in the libc package are also included in the uccs package.

60. Fixed a memory leak in tzset().
    erg712729/fz530421

61. The ap command is causing segmentation fault.
    erg712675/fz530046

62. PAM enabled services do not update syslog correctly.
    fz530185
    fz529908

63. For NIS systems, correct lookup-by-GID failure.
    fz530952

Additional bug fixes and enhancements are provided with the following
packages that are distributed with UnixWare 7.1.4 Maintenance Pack 2.

o The Common Unix Printing System (cups) package, version 1.1.19-03:

  1. SECURITY: Fixed a Denial of Service vulnerability.  It was possible
     to disable browsing in CUPS by sending an empty UDP datagram to port
     631 where cupsd is running.
     erg712688/fz530153 SCOSA-2004.15

o The Foomatic Filters and PPDs (foomatic) package, version 3.0.2:

  2. SECURITY: Foomatic has been updated from version 3.0.0-02 to 3.0.2
     to fix a security problem.

     Please see the foomatic website for the list of changes.
     http://www.linuxprinting.org/foomatic.html

     erg712704/fz530505 SCOSA-2005.12

o The HP Inkjet Printer Driver (hpijs) package, version 1.5-02:

  3. Updated and new PPD files for non-HP printers from the
     foomatic-3.0.2 distribution.
     erg712704/fz530505

o The Lightweight Directory Access Protocol services (ldap) package, version 8.0.1a:

   4. LDAP fails to start with the following error message: dynamic linker: /usr/lib/ldap/slapd: relocation error symbol not found: ldapdebug_level referenced from /usr/lib/ldap/slapd erg712679/fz527615

o The Runtime OpenServer library (libosr) package, version 8.0.2a:

   5. Binaries generated under UDK OSR5.0.5 core dump when running under UnixWare + OKP. erg712664/fz529933

o The PNG (Portable Network Graphics) Library (libpng) package, version 1.2.7:

   6. SECURITY: Libpng has been updated from version 1.2.5 to 1.2.7 to fix several security problems.

     Please see the libpng website for the list of changes. http://www.libpng.org/pub/png/libpng.html

     erg712684/fz530149 SCOSA-2004.16

o The Network Drivers (nd) package, version 8.0.2b:

   7. Updated Intel PRO/100 (eeE8) Network Driver to version 2.9.1. fz530765

   8. Updated Intel PRO/1000 (e1008g) Network Driver to version 7.4.9. fz530764

   9. Updated Broadcom Gigabit (bcme) Network Driver to version 7.5.22. fz530259

  10. The following NIC drivers have been updated to include PC Card support: d21x, e3E and nat. fz529602

  11. The following new adapters are now supported including CardBus NICs and selected PRISM II Wireless PC Card NICs:

     3Com EtherLink III 3C589C 0101058906
     3Com EtherLink III 3C589D 0101058906
     3Com 10Mbps LAN PC Card 3CCE589EC
     3Com 10Mbps LAN PC Card 3CXE589DT
     3Com 10Mbps LAN PC Card 3CCE589ET
     3Com 10/100 LAN PC Card 3C3FE574BT
     Intel PRO/100 CardBus II MBLA3300
     Intel PRO/100 S Mobile Adapter MBLA3300 C3
     Intel PRO/100 CardBus II MBLA3400
     Linksys Combo PCMCIA EthernetCard EC2T
     Linksys EtherFast 10/100 PC Card PCMPC100
     Linksys EtherFast 10/100 CardBus Card PCMPC200
     Linksys Wireless-B Notebook Adapter (802.11b)
     Netgear 10/100 PCMCIA FA410
     Netgear 10/100 PCMCIA Mobile Adapter FA411
     Netgear 10/100 CardBus FA510
     Netgear 802.11b Wireless PC Card MA401
     Socket Communications EA
     Socket Communications LP-E

o The Network Infrastructure and Configuration Subsystem (nics) package, version 8.0.2b:

  12. System panics under heavy load in dlpi_hwfail_handler.  There was

```
         race condition in txmon handler.
         erg712681/fz530124
```

o  The Open Secure Shell (openssh) package, version 3.9p1-01:

   13. OpenSSH has been updated from version 3.8.1p1 to 3.9p1.

       Please see the openssh website for the list of changes.
       http://www.openssh.com

   14. When sshd is stopped and restarted, it no longer works.
       The user trying to get in gets the following message:
       Read from socket failed: Resource temporarily unavailable
       fz529865

   15. Host based authentication does not work with openssh.
       fz530102

   16. Cannot login to an account with an expired password with openssh.
       fz530287

o  The Samba (samba) package, version 3.0.10:

   17. SECURITY: Samba has been updated from version 3.0.4 to 3.0.10 to fix
       several security problems.

       Please see the samba website for the list of changes.
       http://www.samba.org/samba

       erg712735/fz530486 SCOSA-2004.15
       erg712754/fz530644

o  The Squid Caching Proxy Server (squid) package, version 2.5.STABLE7:

   18. SECURITY: Squid has been updated from version 2.4.STABLE7 to
       2.5.STABLE7 to fix several security problems.

       Please see the squid website for the list of changes.
       http://www.squid-cache.org

       erg712610/fz529457 SCOSA-2005.16
       erg712740/fz530514

o  The OUDK Optimizing C Compilation System (uccs) package, version 8.0.2b:

   19. SECURITY: Fixed a security problem in the cscope command that allows
       a local user to compromise filesystem.
       erg712738/fz530500

   20. When doing optimization on functions with exceptionally large
       code blocks where the total number of arguments passed to  calls in
       a single block exceeds 8000, the C or C++ compiler may generate
       incorrect memory addresses for local variables.  This problem has
       only occurred in atypical 4GL generated source code.
       erg712757/fz530656

   21. Invalid #define of setterm() macro in curses.h.
       fz530412

   22. When alloca() is used as an argument to another function call, the
       stack of the current frame may be corrupted such that invalid
       (saved) register values may be returned to the callee.
       fz527215
       fz531008

o  The General Purpose Data Compression Library (zlib) package,
   version 1.2.1-01:

23. SECURITY: Fixed a Denial of Service vulnerability.  Fixed error
    handling in the inflate implementation to avoid incorrectly
    continuing to process in error state.
    erg712692/fz530158 SCOSA-2004.17

o The X11R6 Base X Runtime System (basex) package, version 8.0.2a:

24. SECURITY: Fail-soft mechanism is implemented for handling cases
    where the permissions and/or owner of the /tmp/.X11-unix,
    /tmp/.ICE-unix, and /tmp/.font-unix directories are not correctly
    set.

    Fail-soft means, if the permission and/or owner is improperly set,
    the component would try to properly set it.  If it is unable to do
    that, it would generate error/warning message(s), but the component
    would not fail.

    Note: Portions of this fix are contained in the xserver package.

    erg712694/fz530161 SCOSA-2005.8

25. Fixed XtAppAddInput() function.
    Added missing brackets around XPOLL_READ, XPOLL_WRITE, XPOLL_EXCEPT
    erg712671/fz529974

o The X11R6 X Server (xserver) package, version 8.0.2b:

26. Invoking "scoadmin video" on an Intel SE7520JR2 white box server to
    adjust graphics resolution in either character or graphics mode
    causes the system console to start blinking, and there is no
    recovery other than rebooting.
    erg712755/fz530648

o The X11R6 Contributed X Clients (xcontrib) package, version 8.0.2a:

27. Fixed warning message from the xtetris command.
    fz530182

28. The puzzle command is causing segmentation fault.
    erg712700/fz530183

29. The ar command displays incorrect message in Japanese environment.
    erg712640/fz529737

o The X11R6 Graphics Drivers (xdrivers) package, version 8.0.2a:

30. Added the Matrox G550 Video Adapter support to the mtx driver.
    fz530771

o The IP Filter (ipf) package, version 4.1.3:

31. IP Filter 4.1.3 is an advanced open source filtering package which
    provides both firewall and network address translation services.  It
    is the most common filtering package supported across different
    flavors of UNIX.  For a complete list of features and services
    provided, please check the following URLs.

    o http://coombs.anu.edu.au/~avalon
    o http://www.obfuscation.org/ipf/ipf-howto.txt

    fz530132

--------------------------------------------------------------------------

VI. List of Known Issues.

1. After installing the updated nd package, you may see the following
   warning message on every boot:

       WARNING: eeE8: eeE8ValidateChecksum: EEPROM checksum validation failed
               (slot5,port1)

   This warning comes from the eeE8 driver version 2.9.1 for the following
   NIC:

       Vendor ID              0x8086 (INTEL)
       Device ID              0x1229
       Subsystem Vendor ID    0x8086
       Subsystem ID           0x9

   This message can be safely ignored.

2. Due to changes in the PC Card subsystem, if you have a NIC configured
   in your laptop prior to installing this maintenance pack, you must run
   the Network Configuration Manager (netcfg) to remove and then add the
   NIC to allow it to function again.

3. Before you can configure a PC Card NIC in your laptop, the pcic driver
   must be configured using the following steps:

   - Power down the laptop.
   - Insert your PC Card NIC into a slot.

     For Toshiba laptops, make sure the BIOS has:
     Controller Mode = Cardbus/16-bit.

   - Power on the system.
   - Log in as root
   - Run the Device Configuration Utility: 'dcu'.
   - Select 'Software Device Drivers'.
   - Select 'Miscellaneous'.
   - Page down to the 'pcic' driver.

     If the pcic driver is already marked by an '*', then the driver is
     already configured.  Exit the dcu without saving your changes.

   - Otherwise, select the 'pcic' driver using the space bar.
   - Press F5 (New).
   - Set the following values:

       Unit:     0
       IPL:      0
       ITYPE:    0
       IRQ:      0
       IOStart:  0
       IOEnd:    0
       MemStart: This field is automatically set by the pcic driver.
                 Don't change this setting.
       MemEnd:   This field is automatically set by the pcic driver.
                 Don't change this setting.
       DMA:      -1
       BindCPU:  Leave this field blank.

   - Press F10 (Apply and Return).
   - Press Enter (Return).
   - Select 'Return to DCU Main Menu'.
   - Select 'Apply Changes and Exit DCU'.
   - At the root prompt type:

     rm /etc/conf/pack.d/pcic/_drv.o
     /etc/conf/bin/idbuild -B
     init 6

```
    - When the system is booting up, verify a PC Card is detected
      following the copyright screen.  For example,

      EG: Intel Pro/100 Cardbus PC Card detected in socket 0

    - Run the Network Configuration Manager 'netcfg' to configure your NIC.
    - init 6
```

VII. File Contents

      List of files installed/updated by the uw714m2 package:

```
      /etc/conf/drvmap.d/pcic
      /etc/conf/drvmap.d/udi
      /etc/conf/drvmap.d/udiMbrdg
      /etc/conf/drvmap.d/udiMkb
      /etc/conf/drvmap.d/usb_ehci
      /etc/conf/drvmap.d/usbd
      /etc/conf/dtune.d/fs
      /etc/conf/interface.d/hpci.1.2
      /etc/conf/interface.d/mki.3
      /etc/conf/interface.d/psm.2.2
      /etc/conf/mdevice.d/pcic
      /etc/conf/mdevice.d/psm_apic
      /etc/conf/mdevice.d/psm_mc146818
      /etc/conf/mdevice.d/udi
      /etc/conf/mdevice.d/udiMbrdg
      /etc/conf/mdevice.d/udiMkb
      /etc/conf/mdevice.d/usb_ehci
      /etc/conf/mdevice.d/usbd
      /etc/conf/mtune.d/fs
      /etc/conf/pack.d/acpi/Driver_atup.o
      /etc/conf/pack.d/acpi/Driver_mp.o
      /etc/conf/pack.d/confmgr/Driver_atup.o
      /etc/conf/pack.d/confmgr/Driver_mp.o
      /etc/conf/pack.d/fc/Driver_atup.o
      /etc/conf/pack.d/fc/Driver_mp.o
      /etc/conf/pack.d/fp/Driver_atup.o
      /etc/conf/pack.d/fp/Driver_mp.o
      /etc/conf/pack.d/fs/Driver_atup.o
      /etc/conf/pack.d/fs/Driver_mp.o
      /etc/conf/pack.d/fs/space.c
      /etc/conf/pack.d/hpci/Driver_atup.o
      /etc/conf/pack.d/hpci/Driver_mp.o
      /etc/conf/pack.d/inet/Driver_atup.o
      /etc/conf/pack.d/inet/Driver_mp.o
      /etc/conf/pack.d/inet/space.c
      /etc/conf/pack.d/io/Driver_atup.o
      /etc/conf/pack.d/io/Driver_mp.o
      /etc/conf/pack.d/kma/Driver_atup.o
      /etc/conf/pack.d/kma/Driver_mp.o
      /etc/conf/pack.d/kma/space.c
      /etc/conf/pack.d/mem/Driver_atup.o
      /etc/conf/pack.d/mem/Driver_mp.o
      /etc/conf/pack.d/mps/Driver_mp.o
      /etc/conf/pack.d/namefs/Driver_atup.o
      /etc/conf/pack.d/namefs/Driver_mp.o
      /etc/conf/pack.d/nb/Driver_atup.o
      /etc/conf/pack.d/nb/Driver_mp.o
      /etc/conf/pack.d/nbclts/Driver_atup.o
      /etc/conf/pack.d/nbclts/Driver_mp.o
      /etc/conf/pack.d/nbcots/Driver_atup.o
      /etc/conf/pack.d/nbcots/Driver_mp.o
      /etc/conf/pack.d/net/Driver_atup.o
      /etc/conf/pack.d/net/Driver_mp.o
```

```
/etc/conf/pack.d/pccard/Driver_atup.o
/etc/conf/pack.d/pccard/Driver_mp.o
/etc/conf/pack.d/pccard/stubs.c
/etc/conf/pack.d/pci/Driver_atup.o
/etc/conf/pack.d/pci/Driver_mp.o
/etc/conf/pack.d/pcic/Driver.o
/etc/conf/pack.d/pcic/space.c
/etc/conf/pack.d/pcic/stubs.c
/etc/conf/pack.d/proc/Driver_atup.o
/etc/conf/pack.d/proc/Driver_mp.o
/etc/conf/pack.d/procfs/Driver_atup.o
/etc/conf/pack.d/procfs/Driver_mp.o
/etc/conf/pack.d/psm_apic/Driver_mp.o
/etc/conf/pack.d/psm_mc146818/Driver.o
/etc/conf/pack.d/ptem/Driver_atup.o
/etc/conf/pack.d/ptem/Driver_mp.o
/etc/conf/pack.d/resmgr/Driver_atup.o
/etc/conf/pack.d/resmgr/Driver_mp.o
/etc/conf/pack.d/sockfs/Driver_atup.o
/etc/conf/pack.d/sockfs/Driver_mp.o
/etc/conf/pack.d/svc/Driver_atup.o
/etc/conf/pack.d/svc/Driver_mp.o
/etc/conf/pack.d/sysclass/Driver_atup.o
/etc/conf/pack.d/sysclass/Driver_mp.o
/etc/conf/pack.d/ticlts/Driver_atup.o
/etc/conf/pack.d/ticlts/Driver_mp.o
/etc/conf/pack.d/ts/Driver_atup.o
/etc/conf/pack.d/ts/Driver_mp.o
/etc/conf/pack.d/udi/Driver.o
/etc/conf/pack.d/udiMbrdg/Driver.o
/etc/conf/pack.d/udiMkb/Driver.o
/etc/conf/pack.d/usb_ehci/Driver.o
/etc/conf/pack.d/usbd/Driver.o
/etc/conf/pack.d/util/Driver_atup.o
/etc/conf/pack.d/util/Driver_mp.o
/etc/conf/pack.d/vxfs/Driver_atup.o
/etc/conf/pack.d/vxfs/Driver_mp.o
/etc/conf/sdevice.d/pcic
/etc/conf/sdevice.d/udi
/etc/conf/sdevice.d/udiMbrdg
/etc/conf/sdevice.d/udiMkb
/etc/conf/sdevice.d/usb_ehci
/etc/conf/sdevice.d/usbd
/etc/crash
/etc/dcopy
/etc/dinit.d/S80lp
/etc/docview
/etc/eels/src/eelsdba/Makefile-scox
/etc/eels/src/eelsdba/README
/etc/eels/src/eelsdba/eelsdba_mysql_scox.c
/etc/eels/src/eelsdba/initdb.mysql-scox
/etc/ff
/etc/fsck
/etc/hw
/etc/imapd
/etc/inet/inetd.conf
/etc/init.d/eelsrc
/etc/init.d/license
/etc/init.d/lp
/etc/init.d/snmp
/etc/init.d/z35SysInfo
/etc/mail/slocal
/etc/mkfs
/etc/mount
/etc/ncheck
/etc/p6update
/etc/pam.d/dtlogin
```

```
/etc/pam.d/dtsession
/etc/pam.d/ftp
/etc/pam.d/login
/etc/pam.d/mail
/etc/pam.d/passwd
/etc/pam.d/rexec
/etc/pam.d/rlogin
/etc/pam.d/rsh
/etc/pam.d/su
/etc/pam.d/telnet
/etc/pf.d/IP/.saps
/etc/popper
/etc/rc0.d/K20lp
/etc/rc0.d/K70eels
/etc/rc1.d/K20lp
/etc/rc1.d/K67snmp
/etc/rc1.d/R10license
/etc/rc1.d/S70eels
/etc/rc2.d/S70eels
/etc/rc2.d/S73snmp
/etc/rc2.d/S95docview
/etc/scsi/pdi_hot
/etc/scsi/pdimkdev
/etc/scsi/pdimkdtab
/etc/scsi/sdighost
/etc/scsi/sdipath
/etc/security/audit/auditrpt/auditrptv4
/etc/volcopy
/sbin/devnm
/sbin/df
/sbin/fsck
/sbin/fsdb
/sbin/init
/sbin/mkfs
/sbin/mount
/sbin/p6update
/sbin/putdev
/sbin/sdimkdev
/sbin/sdipath
/sbin/su
/usr/X/lib/WXm/libXm.so.1.3
/usr/X/lib/X11/locale/ja/app-defaults/Bitmap
/usr/X/lib/X11/locale/ja/app-defaults/Chooser
/usr/X/lib/X11/locale/ja/app-defaults/Editres
/usr/X/lib/X11/locale/ja/app-defaults/Spider
/usr/X/lib/X11/locale/ja/app-defaults/Viewres
/usr/X/lib/X11/locale/ja/app-defaults/XClipboard
/usr/X/lib/X11/locale/ja/app-defaults/XFontSel
/usr/X/lib/X11/locale/ja/app-defaults/XLock
/usr/X/lib/X11/locale/ja/app-defaults/Xedit
/usr/X/lib/X11/locale/ja/app-defaults/Xfd
/usr/X/lib/X11/locale/ja/app-defaults/Xman
/usr/X/lib/dtruntime.so.1
/usr/X/lib/libXm.a
/usr/X/lib/libXm.so.1.3
/usr/bin/compress
/usr/bin/ddbconv
/usr/bin/devattr
/usr/bin/devfree
/usr/bin/devreserv
/usr/bin/df
/usr/bin/getdev
/usr/bin/getdgrp
/usr/bin/getvol
/usr/bin/login
/usr/bin/lsof
/usr/bin/mailcheck
```

```
/usr/bin/mailx
/usr/bin/mouseadmin
/usr/bin/netstat
/usr/bin/passwd
/usr/bin/pkginfo
/usr/bin/pkglist
/usr/bin/pkgmk
/usr/bin/pkgparam
/usr/bin/pkgtrans
/usr/bin/putdev
/usr/bin/su
/usr/bin/uncompress
/usr/bin/zcat
/usr/ccs/bin/CC
/usr/ccs/lib/c++be
/usr/ccs/lib/prelink
/usr/dt/bin/dtfile
/usr/dt/bin/dtgreet
/usr/dt/bin/dtlogin
/usr/dt/bin/dtsession
/usr/dt/lib/libDtLogin.so
/usr/dt/lib/libDtLogin.so.1
/usr/dt/lib/libpam.so.1
/usr/include/net/radix.h
/usr/include/netinet/in.h
/usr/include/netinet/in_mp.h
/usr/include/netinet/in_pcb.h
/usr/include/netinet/ip_var.h
/usr/include/netinet/tcp.h
/usr/include/netinet/tcp_var.h
/usr/include/netmgt/snmp.h
/usr/include/sys/class.h
/usr/include/sys/disp.h
/usr/include/sys/insrem.h
/usr/include/sys/kmem.h
/usr/include/sys/lcis.h
/usr/include/sys/lclient.h
/usr/include/sys/lcs.h
/usr/include/sys/lss.h
/usr/include/sys/lwp.h
/usr/include/sys/queue.h
/usr/include/sys/socket.h
/usr/include/sys/stream.h
/usr/include/sys/strsubr.h
/usr/include/sys/vfs.h
/usr/lib/.ns.so
/usr/lib/crash/libkcrash.so
/usr/lib/crash/macros/buf.k
/usr/lib/crash/macros/e1008g.k
/usr/lib/crash/macros/eeE8.k
/usr/lib/crash/macros/file.k
/usr/lib/crash/macros/info.k
/usr/lib/crash/macros/inode.k
/usr/lib/crash/macros/ipc.k
/usr/lib/crash/macros/loadmacs
/usr/lib/crash/macros/net.k
/usr/lib/crash/macros/page.k
/usr/lib/crash/macros/pm.k
/usr/lib/crash/macros/proc.k
/usr/lib/crash/macros/sertty.k
/usr/lib/crash/macros/stack.k
/usr/lib/crash/macros/stat.k
/usr/lib/crash/macros/stream.k
/usr/lib/crash/macros/trace.k
/usr/lib/crash/macros/ufs.k
/usr/lib/crash/macros/vm.k
/usr/lib/crash/macros/vnode.k
```

```
/usr/lib/crash/macros/vxfs.k
/usr/lib/iaf/in.login/scheme
/usr/lib/iaf/login/scheme
/usr/lib/libXm.so.1.3
/usr/lib/libadm.a
/usr/lib/libcrypt.so
/usr/lib/libcrypt.so.1
/usr/lib/libnsl.so
/usr/lib/libnsl.so.1
/usr/lib/libsmux.so
/usr/lib/libsnmp.so
/usr/lib/libsnmpio.so
/usr/lib/libxti.so
/usr/lib/locale/ja/LC_CTYPE
/usr/lib/locale/ja/LC_MESSAGES/RTPM
/usr/lib/locale/ja/LC_MESSAGES/uxar
/usr/lib/nfs/mountd
/usr/lib/scoadmin/aas/aasGUI
/usr/lib/scoadmin/dhcp/dhcpGUI
/usr/lib/scoadmin/filesystem/filesystemOsa
/usr/lib/scoadmin/netosa/aasOsa
/usr/lib/scoadmin/printer/printerGUI
/usr/sadm/install/bin/pkginstall
/usr/sadm/install/bin/pkgremove
/usr/sadm/sysadm/bin/mkdtab
/usr/sbin/ap
/usr/sbin/crash
/usr/sbin/creatiadb
/usr/sbin/cs
/usr/sbin/dcopy
/usr/sbin/df
/usr/sbin/disksetup
/usr/sbin/edquota
/usr/sbin/fdisk
/usr/sbin/ff
/usr/sbin/fsck
/usr/sbin/hostmibd
/usr/sbin/in.ftpd
/usr/sbin/in.inetinst
/usr/sbin/in.rexecd
/usr/sbin/in.rshd
/usr/sbin/in.snmpd
/usr/sbin/installf
/usr/sbin/labelit
/usr/sbin/mkfs
/usr/sbin/mount
/usr/sbin/ncheck
/usr/sbin/partsize
/usr/sbin/pkgadd
/usr/sbin/pkgask
/usr/sbin/pkgcat
/usr/sbin/pkgchk
/usr/sbin/pkgcopy
/usr/sbin/pkginstall
/usr/sbin/pkgrm
/usr/sbin/prtconf
/usr/sbin/quot
/usr/sbin/quota
/usr/sbin/quotacheck
/usr/sbin/quotaoff
/usr/sbin/quotaon
/usr/sbin/racoon
/usr/sbin/removef
/usr/sbin/repquota
/usr/sbin/sco_pmd
/usr/sbin/switchout
/usr/sbin/volcopy
```

```
        /var/spool/mqueue
```

VIII. Escalation Fixes in this Maintenance Pack

   These are the Escalation tracking numbers for the fixes included in
   UnixWare 7.1.4 Maintenance Pack 1. These fixes are also included in
   UnixWare 7.1.4 Maintenance Pack 2.

```
        erg711929/fz529721      erg712596/fz529361
        erg712598/fz529384      erg712605/fz529414
        erg712620/fz529611      erg712621/fz529619
        erg712635/fz529721      erg712658/fz529884
        erg712661/fz529890      erg712672/fz528399
        erg712682/fz530146      erg712697/fz530166


        ptf9050a/fz529560
        ptf9050b/fz529565


        fz198541        fz519105        fz528611        fz528775
        fz528862        fz529097        fz529463        fz529581
        fz529663        fz529698        fz529765        fz529851
        fz529860        fz529876        fz529916


        erg712282/fz526486 (fix provided in the nics package)
        erg712602/fz529411 (fix provided in the openssl package)
        erg712635/fz529721 (fix provided in the uccs package)
        erg712648/fz529827 (fix provided in the openssh package
        erg712665/fz529930 (fix provided in the uccs package)
        erg712700/fz530183 (fix provided in the xcontrib package)
        erg712757/fz530656 (fix provided in the uccs package)


        fz529615 (fix provided in the foomatic and hpijs packages)
        fz529629 (fix provided in the modjk1 package)
        fz529665 (fix provided in the samba package)
        fz528862 (fix provided in the xserver package)
        fz528969 (fix provided in the samba package)
        fz530182 (fix provided in the xcontrib package)
```

   These are the Escalation tracking numbers for the fixes included in
   UnixWare 7.1.1 Maintenance Pack 2:

```
        erg711929/fz519727      erg712294/fz527741
        erg712313/fz527890      erg712470/fz528449
        erg712509/fz528555      erg712585/fz529161
        erg712592/fz529303      erg712593/fz529317
        erg712607/fz529426      erg712615/fz529483
        erg712619/fz529605      erg712644/fz529774
        erg712650/fz529836      erg712661/fz529890
        erg712663/fz529916      erg712667/fz529962
        erg712672/fx528399      erg712675/fz530046
        erg712677/fz530090      erg712678/fz530093
        erg712682/fz530146      erg712697/fz530166
        erg712699/fz530174      erg712703/fz530229
        erg712706/fz530250      erg712707/fz530251
        erg712722/fz530382      erg712726/fz530392
        erg712731/fz530479      erg712732/fz530366
        erg712758/fz530661      erg712760/fz530410
        erg712781/fz530229


        erg712729/fz530421 (fix provided in the libc package)
        erg712688/fz530153 (fix provided in the cups package)
        erg712704/fz530505 (fix provided in the foomatic and hpijs packages)
        erg712664/fz529933 (fix provided in the libosr package)
        erg712679/fz527615 (fix provided in the ldap package)
        erg712684/fz530149 (fix provided in the libpng package)
```

```
        erg712681/fz530124 (fix provided in the nics package)
        erg712735/fz530486 (fix provided in the samba package)
        erg712754/fz530644 (fix provided in the samba package)
        erg712610/fz529457 (fix provided in the squid package)
        erg712740/fz530514 (fix provided in the squid package)
        erg712738/fz530500 (fix provided in the uccs package)
        erg712757/fz530656 (fix provided in the uccs package)
        erg712692/fz530158 (fix provided in the zlib package)
        erg712694/fz530161 (fix provided in the basex package)
        erg712671/fz529974 (fix provided in the basex package)
        erg712755/fz530648 (fix provided in the xserver package)
        erg712700/fz530183 (fix provided in the xcontrib package)
        erg712640/fz529737 (fix provided in the xcontrib package)


        fz525623        fz526860        fz528398        fz528404
        fz528650        fz528909        fz529146        fz529463
        fz529522        fz529602        fz529706        fz529708
        fz529730        fz529860        fz530091        fz530092
        fz530103        fz530110        fz530118        fz530165
        fz530177        fz530178        fz530247        fz530306
        fz530344        fz530377        fz530379        fz530438
        fz530539        fz530587        fz530654        fz530909
        fz530952


        fz529908 (fix provided in the libc package)
        fz530185 (fix provided in the libc package)
        fz530952 (fix provided in the libc package)
        fz529602 (fix provided in the nd package)
        fz530259 (fix provided in the nd package)
        fz530764 (fix provided in the nd package)
        fz530765 (fix provided in the nd package)
        fz529865 (fix provided in the openssh package)
        fz530102 (fix provided in the openssh package)
        fz530287 (fix provided in the openssh package)
        fz527215 (fix provided in the uccs package)
        fz530412 (fix provided in the uccs package)
        fz531008 (fix provided in the uccs package)
        fz530182 (fix provided in the xcontrib package)
        fz530771 (fix provided in the xdrivers package)
        fz530132 (fix provided in the ipf package)
```

IX. Copyrights.

1. The lsof command:

```
    /*
     * Copyright 2002 Purdue Research Foundation, West Lafayette,
     * Indiana 47907.  All rights reserved.
     *
     * Written by Victor A. Abell
     *
     * This software is not subject to any license of the American
     * Telephone and Telegraph Company or the Regents of the
     * University of California.
     *
     * Permission is granted to anyone to use this software for
     * any purpose on any computer system, and to alter it and
     * redistribute it freely, subject to the following
     * restrictions:
     *
     * 1. Neither the authors nor Purdue University are responsible
     *    for any consequences of the use of this software.
     *
     * 2. The origin of this software must not be misrepresented,
     *    either by explicit claim or by omission.  Credit to the
```

```
      *      authors and Purdue University must appear in documentation
      *      and sources.
      *
      * 3. Altered versions must be plainly marked as such, and must
      *      not be misrepresented as being the original software.
      *
      * 4. This notice may not be removed or altered.
      */
```

(c) Copyright 2005 The SCO Group, Inc. All rights reserved.