Read Before Installing
MPE/iX Release 7.5 PowerPatch 5
Software Release (C.75.05)

HP e3000 MPE/iX Computer Systems
Edition 4

Manufacturing Part Number: 30216-90371
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1. Information to Read Before Installing MPE/iX 7.5 PowerPatch 5

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2. Patch Information for MPE/iX 7.5 PowerPatch 5
1 Information to Read Before Installing MPE/iX 7.5 PowerPatch 5

Read Before Installation: Critical Patches Included In Power Patch C.75.05

This Power Patch includes two critical patches that were made available 31 October 2007. At that time Hewlett-Packard announced the availability of these patches via a mass-mailing and made them available from the HP ITRC web site.

These patches address issues which are rare and few if any customers are at risk of being impacted by them.

The first of the two patches, MPENX11A addresses the following issues:

1.SORT.PUB.SYS and programmatic calls to HPSORTOUTPUT: Customers on MPE/iX Release 6.5, 7.0 or 7.5 who sort 4GB or more of data are at risk. When either interface is used to sort more than 4GB of data, the returned record length could in rare instances be corrupted. If the record length returned is less than it should be then data could be lost.

2.MPE/iX OS millicode handling of long pointer access to large files: When the OS copies data from a long pointer location only one byte from a range is moved if, and only if that range starts six, five, four, three or two bytes from the end of a four gigabyte space and the length of the move transfers all remaining bytes of the space. No other source address or transfer length combinations are affected nor are transfers to such addresses.

The second patch is MILNX10A which supplies a new millicode. Non-HP programs which are suspected of being at risk of this issue will need to be recompiled after installation of MILNX10A to address the issue.

Please see http://www.hp.com/go/e3000/ for complete details about these Critical Patches.
Read Before Installation: Large File Dataset (LFDS)

Patch TIXNX14 included with this power patch delivers TurboIMAGE version C.10.12. Beginning with version C.10.10 (patch TIXMXW7) TurboIMAGE no longer supports the use of "Large File Datasets" which are datasets that may exceed 4 gigabytes in size. The "Jumbo" dataset feature is supported. These are datasets comprised of multiple files each no larger than 4 gigabytes and is enabled using the CONTROL JUMBO option on the schema file.

As part of the installation of TIXNX14 a program to detect the presence of Large File Datasets will be run. Output from the program will go to the system console. The patch installation and run of the LFDS detection tool should take place when your system is not being used and any databases you may have are not being accessed to ensure a complete and accurate check.

The LFDS detection tool will determine if any datasets of your databases are now or could be larger than 4 gigabytes. If an LFDS dataset is detected the TurboIMAGE code delivered with TIXNX14 will disable writes to this database. This ensures that no integrity problems occur as a result of those writes. The dataset may still be read and should be unloaded and recreated using the CONTROL JUMBO option at your earliest convenience.

After TIXNX14 (C.10.12) has been installed you will be unable to create a Large File Dataset. If a schema file defines a dataset that would result in it being an LFDS set (note that this would mean that the CONTROL JUMBO option was NOT used) then DBSCHEMA will issue the error:

"CREATION OF LFDS NOT ALLOWED"Full details about the Large File Dataset issue, the detection tool and how TurboIMAGE code version C.10.10 or greater operates can be found at:

http://jazz.external.hp.com/LFDS/
Predictive Changes **SYSSTART** during **UPDATE**

Due to some customer sites having multiple startup directives in **SYSSTART**.**PUB.SYS**, the job that installs Predictive has been modified to recognize this. Previously, this Predictive job would just add the "**STREAM JPSMON.PRED.SYS**" line to the end of **SYSSTART**. Now, the job modifies the **SYSSTART** file as follows:

1. Gather **STREAMs** device and printer queue for **STREAMs** and **OPENQ** commands if needed.
2. If **SYSSTART**.**PUB.SYS** does not exist, a new **SYSSTART** file is created on ldev 1 with the following contents:

   ```plaintext
   STARTUP
   **
   WARMSTART
   OPENQ LP
   STREAMS 10
   STREAM JPSMON.PRED.SYS
   **
   COOLSTART
   OPENQ LP
   STREAMS 10
   STREAM JPSMON.PRED.SYS
   ****
   ```

3. If a **WARMSTART**, **COOLSTART**, **RELOAD** or **UPDATE** section exists and has commands, AND there are no other **STREAM** commands AND there are no **STARTSESS** to **OPERATOR.SYS** commands, then do not modify the **SYSSTART** file.

4. If there are **STARTSESS** commands but no **STARTSESS** to **OPERATOR.SYS**, then do not modify the **SYSSTART** file.

5. The command **STREAM JPSMON.PRED.SYS** is removed from the **STARTUP** section and added to the **WARMSTART** and **COOLSTART** sections. If no **WARMSTART** and **COOLSTART** sections exist, they are created and contain these commands:

   ```plaintext
   **
   WARMSTART
   OPENQ LP
   STREAMS 10
   STREAM JPSMON.PRED.SYS
   **
   COOLSTART
   OPENQ LP
   STREAMS 10
   STREAM JPSMON.PRED.SYS
   ****
   ```

If the file **NOSYSST.PRED.SYS** exists, it prevents the Predictive job from doing any **SYSSTART** file processing during installation. Therefore, if you do NOT want the "**STREAM JPSMON.PRED.SYS**" command added to your **SYSSTART** file, create the **NOSYSST.PRED.SYS** file with a build command.

BUILD NOSYSST.PRED.SYS;DISC=1
Host-Based DTC Management Features

As you may be aware, the Open View DTC Manager (OVDTCMgr) application on the PC was discontinued October 2002. In MPE/iX 7.5 Power Patch 2, the DTS subsystem has been enhanced to provide functionality needed to continue support of the DTC connectivity required by the HP e3000 users. The features added to the DTS subsystem had previously been available when the OVDTCmgr platform managed the DTCs and PC-Based Management was configured on the HPe3000, but not when the HP e3000 host managed the DTCs and Host-Based Management was configured.

These enhancements required changes to the data structures for the DTS subsystem in the NMCONFIG file and some NMMGR screens. These enhancements have been designed to minimize the additional steps you need to do to install and migrate to this release. This article describes some features and behaviors of this version of the DTS subsystem that you should know about before you install this release. These important features and behaviors are the following:

- Although it is now an unsupported configuration, the OVDTCMgr platform will still be able to manage the DTCs for connection to the HP e3000. HP recommends that you migrate your DTS configuration to Host-Based management at the earliest opportunity.

- When you reboot your system after updating with this release, DTS will recognize that the data in the DTS subsystem of the NMCONFIG file is in the old format but will still create a valid DTS configuration. DCC will display the following warning message. DCC WARNING P-L, NMCONFIG is previous version. Run NMMGRVER. (DCCWARN 52) The DTS configuration created will be identical to what was created prior to the update.

- In NMMGR, if you press the [DTS] key at the Main screen and attempt to display the DTS configuration before running NMMGRVER, instead of going to the DTS configuration screen, you will see a screen that informs you that the DTS subsystem has been updated. The actions you can take are described later in this article.

- You will use the version of NMMGRVER installed with this release to update the NMCONFIG file to the latest format and then perform a DTS Shutdown and Restart.

- After using NMMGRVER to migrate the configuration file to the latest format, DTS Dynamic Configuration will be disabled until a DTS Shutdown and Restart or system reboot is performed.

Use one of the following two processes described below to update the NMCONFIG file so that NMMGR will allow you to make new changes to the DTS configuration and to re-enable DTS Dynamic Configuration.

1. Run NMMGRVER from the Command Interpreter.

   You can run NMMGRVER from the CI as you have on earlier releases to update the format of the NMCONFIG file:

   a. Run NMMGRVER to update the NMCONFIG file to the latest format:

      :run nmmgrver.pub.sys

         Utility to convert NM configuration files to be compatible with NMMGR B.07.06.

         Fileset to be scanned? NMCONFIG.PUB.SYS

         (Enter the file name of your NM configuration file. Then confirm the conversion.)

         OK to convert NMCONFIG.PUB.SYS? Y

   b. Perform a DTS Shutdown and Restart:

      :dtccntrl func=shutdown forced=y

2. Run NMMGRVER from within NMMGR.
You can run NMMGRVER from within NMMGR to update the NMCONFIG file and continue with changes to the DTS configuration without leaving NMMGR:

a. Run NMMGR and press the [DTS] key at the Main NMMGR screen, you will see a screen that informs you that the DTS subsystem has been updated. Press the F1 [Do Convert] key. This key will launch NMMGRVER and you will see:

```
Utility to convert NM configuration files to be compatible with NMMGR B.07.06.
Filesset to be scanned? NMCONFIG.PUB.SYS
(Enter the file name of your NM configuration file. Then confirm the conversion.)
OK to convert NMCONFIG.PUB.SYS? Y
```

b. Note the dialog on the screen to verify that the conversion was successful and enter [Return] to return to NMMGR.

c. Press the [Prior Screen] key to return to the Main NMMGR screen and then press the [DTS] key to resume your DTS configuration changes.

d. Validate the NMCONFIG file and exit NMMGR.

e. Perform a DTS Shutdown and Restart in order for the configuration changes to take:

```
dtccntrl func=shutdown forced=y
```

```
dtccntrl func=restart
```

After you run NMMGRVER and if your system is using Host-Based Management, your data will be converted to the equivalent configuration in the new format. If your system is currently using PC-Based Management, you will see no changes to your configuration.

For more information on the features and behaviors of these enhancements, see the article “Enhanced Host-based DTC Management Functionality” in the Communicator for MPE/iX Release 7.5 Power Patch 2. Complete documentation and information to help you migrate your configuration to Host-Based Management can be found in the updated Configuring and Managing Host-Based X.25 Links manual that is available online from:


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**Samba 2.2.8a / SMBMXG3C**

Before installing or using the Samba/iX product on MPE/iX, please visit


**Migrating from Samba 2.0.7**

Users of Samba 2.0.7 need to be aware of the following issues before installing Samba 2.2.8a. For complete information about Samba 2.2.8a, please see http://jazz.external.hp.com/src/samba/ (or /usr/local/samba/ReadME.mpe after this patch has been installed).
Streamlined Installation Layout (Some Files Have Moved)

Previous versions of Samba installed a few files into the SAMBA.SYS group and the remaining files into the SAMBA account. Starting with Samba 2.2.8a, all files are now installed into the SAMBA account in a version-specific group, (for example, SMB228A.SAMBA). The Samba 2.2.8a installation script does not modify any of the old Samba files in the SAMBA.SYS group.

The Samba 2.2.8a installation script modifies the /usr/local/samba symbolic link to point to the new /SAMBA/SMB228A file location. A new symbolic link of /SAMBA/CURRENT is created to point to the same location.

If you have any jobs, UDCs or command files, and other references that point to the old SAMBA.SYS files, you must modify these old references to point to the new file locations. Use either of the symbolic links to do this. That is, instead of SMBD.SAMBA.SYS, you can refer to SMBD.CURRENT.SAMBA or /usr/local/samba/SMBD or /SAMBA/CURRENT/SMBD.

Existing 2.0.7 Configuration Files are Compatibles with 2.2.8a

Your existing 2.0.7 configuration files are compatible with 2.2.8a. Copy them from the old /SAMBA/SMB207/lib location to /usr/local/samba/lib or /SAMBA/CURRENT/lib.

In order to take full advantage of the new 2.2.8a functionality, it is recommended that you use /usr/local/samba/lib/samp-smb.conf as a template for creating a new smb.conf file.

New "Full-Power" Model Enabled by Default

Previous versions of Samba for MPE required manually adding PM capability to the MGR.SAMBA user in order to enable "full-power mode" where Samba can authenticate against traditional MPE user and account passwords of the format USERPW, ACCTPW. This functionality is now enabled by default starting with Samba2.2.8a.

Full-power mode is the recommended mode of operation. Besides the convenience of authenticating against traditional MPE passwords, full-power mode also enables Samba to setuid() to the authenticated user so that all file accesses occur with the authenticated user's access rights.

Full-power mode under Samba 2.2.8a is enabled for Samba program files if they are owned by MANAGER.SYS but reside in the SAMBA account. The full-power program files are currently NMBD, SMBD, and SWAT. Since PM capability on the MGR.SAMBA user is no longer required for full-power mode, it is removed by the Samba2.2.8a installation script.

Migrating Back to Samba 2.0.7

If after installing Samba 2.2.8a, you decide that you want to migrate back to Samba 2.0.7, perform the following steps:

:HELLO MANAGER.SYS
:PURGELINK /usr/local/samba
:NEWLINK /usr/local/samba,/SAMBA/SMB207
:ALTUSER MGR.SAMBA;CAP=+PM

(If you were previously using Samba 2.0.7 in full power mode.)
WebWise Apache in FOS

For MPE/iX 7.5, WebWise server has been updated to version A.03.00 and replaces Apache in FOS as a no-extra-cost bundled product.

Migrating from Previous Versions of Apache

The /APACHE/PUB/JHTTPD job stream file from previous versions of Apache is not compatible with HP WebWise MPE/iX Secure Web Server. You must manually create a new JHTTPD job stream file buy using the WebWise /APACHE/PUB/JHTTPD.sample template.

The /APACHE/PUB/conf/httpd.conf configuration file from previous versions of Apache may or may not be compatible with WebWise, depending on the previous Apache version:

- 1.3.4: NOT compatible. You must use /APACHE/PUB/conf/httpd.conf.sample as a template to create a new httpd.conf file.
- 1.3.9: Compatible, but SSL functionality will not be enabled. To enable SSL functionality, you MUST use /APACHE/PUB/conf/httpd.conf.sample as a template to create a new httpd.conf file.
- 1.3.14: Compatible, but SSL functionality will not be enabled. To enable SSL functionality, you MUST use /APACHE/PUB/conf/httpd.conf.sample as a template to create a new httpd.conf file.

In addition to updating /APACHE/PUB/conf/httpd.conf, it is strongly recommended to update all of the configuration files in the same directory by using the corresponding *.sample files.

Migrating from WebWise A.01.00

HP WebWise MPE/iX Secure Web Server version A.03.00 was designed to be a drop-in replacement for Apache, and does not attempt to upgrade or migrate any files from the WebWise A.01.00 /APACHE/SECURE directory tree.

You must manually use the A.03.00 *.sample files in the /APACHE/PUB/conf directory tree to create new standard configuration files, and then propagate any local customization that you made in the A.01.00 /APACHE/SECURE/conf directory tree.

You will need to copy your server key and certificate from the old A.01.00 locations of /APACHE/SECURE/conf/ssl.key/server.key and /APACHE/SECURE/conf/ssl.crt/server.crt to the new A.03.00 locations of /APACHE/SECURE/conf/ssl.key/server.key and /APACHE/SECURE/conf/ssl.crt/server.crt.

Any A.01.00 CGI applications in /APACHE/SECURE/cgi-bin or any data content in /APACHE/SECURE/htdocs can either be moved to the corresponding A.03.00 directories in /APACHE/PUB, or left in place after adjusting the new A.03.00 configuration files to refer to the old A.01.00 locations.

WebWise A.01.00 accessed web page content as the user SECURE.APACHE, but WebWise A.03.00 accesses web page content as the user www.APACHE. This is the same user as used by Apache A.02.00.
Customers Currently using the HAFO Product on 6.5, 7.0 and 7.5

Before the creation of the MPEMXG9 and MPEMXH5 patches, the use of HAFO was only supported for customers using the XP256 SCSI Disk Array. With these patches, included in C.75.03, there are significant changes to the HAFO product including the format of the HAFOCONF configuration file. If you are updating from 6.5 OR, have not previously installed MPEMXG9 and MPEMXH5 (or superseding patches), then you will lose your HAFO configuration unless you follow the steps outlined below.

The following text is extracted from the new “High Availability FailOver/iX Manual” for 7.0 and 7.5 which can be found at: http://docs.hp.com/en/mpeixall.html#MPE/iX%20High%20Availability

The structure of the HAFOCONF file used by the 7.0 & 7.5 version (now supporting a number of HP Fibre Channel storage arrays) has changed from that used by the 6.5 version (for use with XP256 only). BEFORE UPDATING to 7.0 or 7.5, you should dump the output of the SYSGEN ha> LISTCONF to an ASCII file.

Then, edit the file down to just the lines that list your LDEVs along with their primary and alternate paths. This list, with “AD” inserted, can then be used as the core of an input file for SYSGEN on 7.0/7.5 to create a new HAFOCONF:

For example, a file containing the following commands, passed to SYSGEN as input, would create a HAFOCONF file with Ldevs 450-453 using the HBA pair at 0/6/2/0 and 0/6/2/1. These commands also perform the necessary “hold” and “keep” commands to make this change permanent.

```
permyes on
io
ha
ad 450 0/6/2/1.3.3 0/6/2/0
ad 451 0/6/2/1.3.4 0/6/2/0
ad 452 0/6/2/0.3.5 0/6/2/1
ad 453 0/6/2/0.3.6 0/6/2/1
exit
hold
exit
keep
exit
```

Any MPE/iX Customer using the HAFO product after installing C.75.03 must refer to the 7.0 and 7.5 HAFO manual rather than the 6.5 version.
“Relocation Failed” Possible during System Boot

by Jim Hawkins, MPE/iX Lab

With patch MPEMXQ3 (or superseding patches and Power Patches) a “PDC relocation failed” message may appear on the system console soon after performing an ISL> START on A-Class and N-Class systems. After the message appears, the system boot-up will proceed without interruption and the system will function normally.

Example console output from A-Class:

ISL> start norecovery
MPE/iX launch facility
Scanning PCI BUS 0 **.++..........................
Scanning PCI BUS 10 +...............................
Scanning PCI BUS 20 +...............................
Scanning PCI BUS 30 +...............................
Initialize_genesis - Ver bld1: <<pci 2.1601>> Initialize_genesis - Relocating pdc...
Initialize_genesis - PDC relocation failed: mm_status = 0xffd80065,
pdc_status = 0xffffffff6, old pdc = 0x2f1f000, new pdc = 0x2f1f000 TUE,
MAY 23, 2006, 3:46:45 PM (y/n)?

If this message appears the changes made in MPEMXQ3 will not take effect on your system. This message typically appears only after a “TC” reboot. After an “RS” reboot the PDC relocation should always be successful. Therefore those wishing to enable MPEMXQ3 may do so by performing an RS Reboot.
Important CR Information

Please take note of the updated CR information.

CR# JAGad62997 / 8606193787

Shut4 20 Min Hang on Shutdown due to tcpsip not Terminating

If the Support Tools Manager (STM) is not shutdown prior to doing a SHUTDOWN, then the SHUTDOWN will pause for 5 minutes or longer between the Shut4 and Shut6 messages, for example:

Shutdown of system processes begins (Shut 4)
/*5 minute or longer pause */
Shutdown of operating system complete. (Shut 6)

To avoid this delay, shutdown STM before the network is stopped by entering the stmshut command in cstm.

cstm
  cstmcstm>stms hut
  cstm>exit
  ::nscontrol stop
  ::netcontrol stop
  ^=SHUTDOWN
CR# JAGae78289 / 8606315566

:STMSHUT sometimes unable to completely close daemon

During certain installations of the PowerPatch, an installation job has been found to fail due to the inability of the diagnostic monitor to completely shutdown. The symptom of the problem is that the job I0231900 will abort, which will trigger the installing tool (usually HPINSTAL) to systematically abort. Within the spoolfile of this jobstream, the following failure text is seen:

```
:purge /usr/lib/libmcats.sl
EXCLUSIVE VIOLATION: FILE ACCESSED EXCLUSIVELY  (FSERR 91)
Unable to purge file '/usr/lib/libmcats.sl'. (CIERR 384)
REMAINDER OF JOB FLUSHED.
```

This condition can be resolved, and the installation can be resumed, by following these steps (user entries are in bold below):

1. Kill the diagmond daemon.

   From MANAGER.SYS,
   
   :run sh.hpbin.sys
   $ ps -ef | grep diagmond

   The above command should return a line similar to this:
   
   0  65584  1  0  Jan 01  1:10
   /usr/sbin/stm/uut/bin/sys/diagmond

   Note this number. It is the pid number of the process that needs to be killed. Issue the `kill` command for this pid:
   
   `$kill 65584         (for pid# 65584)`

   Now, verify that the process has been aborted, by repeating the 'ps' command:
   
   `$ ps -ef | grep diagmond`

   There should not be any entries returned; merely a line-feed. If the entry is still showing, use this `kill` command:
   
   `$kill –9 65584      (for pid# 65584)`

2. Resume the installation. Run the installer program again. Make sure you are in the INSTALL group, and issue the run command.
   
   :run hpinstal

   The installation process will detect where it left off, and will resume from that point.
CR# JAGaf58821 / 8606398856

HAFO Errors while Booting

As a result of the inclusion of MPE/iX Patches MPEMXG9 and MPEMXL5 in C.70.03, the FOS High Availability FailOver product components are automatically installed on all systems. This may, temporarily, result in non-harmful error messages being printed on the system console during system boot activities.

Specifically, after ISL>START, the MPE/iX OS will attempt to open configuration files, if a HAFOCONF file is not part of the configuration group then the system will report this via the following error messages:

```
ISL> start norecovery nosysstart logon=manager.sys
MPE/iX launch facility

Initialize_genesis - Ver bld1: <<pci 2.1601>>
THU, MAR 31, 2005, 12:44:30 PM (y/n)? y

. . . ( Various messages ) . . .

Create port process has been completed.
ERROR - Opening the file: %hafoconf.CONFIG.SYS% failed!
    status - subsys: #150 info: #-169
ERROR - Unable to save necessary configuration files!
```

These errors can be ignored if you are not using the HAFO product. They may also be easily eliminated by creating a dummy HAFOCONF file in the current system configuration group with the SYSGEN utility. The following is an example of the SYSGEN commands that will create a HAFOCONF file in the current configuration group, user input in bold type:

```
CSYLE18<PUB.SYS>:sysgen
    sysgen> io
        io> hold
        io> exit
    sysgen> keep
        keeping to group CONFIG.SYS
        Purge old configuration (yes/no)? y
        ** configuration files successfully saved **
    sysgen> exit
```

For more information on HAFO please refer to the High Availability FailOver/iX Manual for MPE/iX 7.0, MPE/iX 7.5 which is located at: http://docs.hp.com/en/mpeixall.html#MPE/iX%20High%20Availability
2  Patch Information for MPE/iX 7.5
PowerPatch 5

The following table provides a list of patch index numbers and a description of the patch. C7505 P5 Patch

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<td>D500-154029</td>
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<td>COBMXJ7C</td>
<td>8606-315718</td>
<td>COBOL II/IX OPTIMIZE=1 CAN CAUSE DATA CORRUPTION</td>
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<td>Supersedes: COBMXBOC</td>
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CONHD98A  8606-364659  GENERAL FIXES FOR NIO CONSOLE ON MPE/IX 7.5 (D) PATCH
   8606-358255
   8606-339405  Supersedes: CONHD91A  CONHD69A  CONGDU3A
   5003-164293
   8606-214376
   8606-343182

DCCHD72A  8606-348848  GENERAL FIXES FOR DCCONFIG ON MPE/IX 7.5 (C) PATCH
   8606-319268
   8606-262891  Supersedes: DCCHD39A  DCCGDX5A
   8606-164838
   8606-193876
   8606-293229
   8606-325820

DNSHDG8A  8606-412615  DNS BIND/IX 9.3.0 UPGRADE FOR MPE/IX 7.5 REV 1
   8606-420729
Supersedes: DNSHDF9A

DTCGDU4A  8606-124212  7.5 DTC HOST DOWNLOADS, EQUIVALENT TO ODMGDB6, OV
   8606-179267  DTCMGR A1440E00

DTSHDC3A  8606-386429  DTS 7.5 - ACCUMULATED FIXES ("F" PATCH)
   8606-376388
   8606-380140  Supersedes: DTSHDB2A  DTSHDB0A  DTSHD80A  DTSHD53A
   8606-361562  DTSHD37A
   8606-308473
   8606-319268
   8606-335666
   8606-290518
   8606-222556
   8606-295732
   8606-303876
   8606-293229
   8606-286687
   8606-389429
EDTMXF7C  8606-284606  HP EDIT A.02.36: FIX PROBLEM WITH SPOOL FILE DISPLAY AND SAVE.

FRIMX47E  8606-215725  FIX FOR RPCD AND FIX FOR DBOPEN() SYMBOL IN DCEXL 8606-232661

FTPHDJ5A  8606-466351  SYSTEM IMPROVEMENT BALLOT ENHANCEMENTS FOR FTP 7.5 8606-442414  RELEASE (H3 PATCH)
8606-440776  Supersedes: FTPHDH9A FTPHDG9A FTPHDG4A FTPHDF4A
8606-441723  FTPHD8A FTPHD75A FTPHD71A FTPHD68A
8606-445917  FTPHD48A FTPHD44A FTPHD09A FTPGDY9A
8606-364126  FTPGDW4A FTPGDU2A
8606-364129
8606-409300
8606-424618
8606-420106
8606-412062
8606-405040
8606-407731
8606-364051
8606-364100
8606-364115
8606-364124
8606-395344
8606-397385
8606-397749
8606-358525
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8606-392384
8606-340675
8606-265669
8606-338048
8606-343050
8606-344454
8606-331712
8606-277230
8606-328875
FWSLXT5D  8606-201006  PROVIDE REV. 3728 FIRMWARE FILE FOR 28696A FW SCSI DEVICE Adapter

INTHDH4A  8606-421524  GENERAL FIXES FOR INTERSRV PRODUCTS ON MPE/IX 7.5 (D)

8606-325249
8606-183008  Supersedes: INTHD64A INTHD61A INTGDY3A
8606-230083
1653-202150
8606-326191
ITOED07D  4701-401919  PROVIDE 5.5 FUNCTIONALITY IN XL.PUB.SYS FOR 6.0 & 6.5  
HP3000 ITO AGENT

LBCNX20A  1000-776948  TZTAB CHANGE FOR AUSTRALIA DST CHANGES IN 2008.

Supersedes: LBCNX09A LBCMXY5A LBCMXX4A

LNKMXE3A  8606-287479  LINKEDIT A.06.24: FIX FOR SILENT TRUNCATION OF LONG  
INFO STRING.

MILNX10A  1000-470109  UPDATED MILLI.LIB.SYS TO ADDRESS LARGE FILE BOUNDARY  
CORRUPTION.

MIRMXY0A  8606-438418  CREATING VOLUME WITH 0% PERMANENT SPACE MAKES VOLSET  
8606-465467  UNUSABLE

Supersedes: MIRMXP7C

MPELXT0C  5003-345553  NEW PATCH TO INCLUDE MPEJXV9(5.5), MPEKXL0(6.0), AND  
4701-383950  MPEKXX4(6.5).

MPEMX02D  8606-217821  SYSTEM HANG DUE TO 2-WAY DEADLOCK BETWEEN NETWORK  
SOCKET SEMAPHORES

MPEMX54C  8606-237023  POSSIBLE PROBLEMS WITH FILES CREATED WITH MKNOD  
COMMAND.

MPEMX91C  8606-245702  LABELED TAPES CAUSE AUTOLOADER TO SKIP TAPES BETWEEN  
JOBS

MPEMX94B  8606-244832  CIERR 981 IF SHELL EXIT CMD IS LAST RECORD IN JOB'S  
VARIABLE RECORD

MPEMXA5B  8606-269701  SA1458 DURING CREATEPROCESS DUE TO PROBLEMS HANDLING  
8606-221095  POSIX ENVIRON

8606-274443  Supersedes: MPEMX86B
MPEMXB1B  8606-276005 :SHUTDOWN SYSTEM;RESTART CAN RESULT IN SA 1047 AFTER SHUT 6 ON 9X9,99X

MPEMXB3C  8606-278180  SA2216 FROM RUNNING OUT OF XM COPYFWD ARRAY ELEMENTS DURING CHECKPOINT

MPEMXC6B  8606-284194  SA1740 OR NEWMIRRSET FAILS; MIRVUTIL HANGS ON 8606-305917  FILL_DISC_WAIT CONDITION

MPEMXD8B  8606-288647  ALLOW LISTING OVER 100 SOMS WITH VERSION.PUB.SYS

Supersedes: MPEMXC2B

MPEMXD9B  8606-288751  BX00 0127 DEAD HALT INSTEAD OF SYSTEM ABORT ON 9XX SERIES SYSTEMS

MPEMXE2B  8606-288084  ARRAYLOG -E REPORTS ERROR NUMBER : 50 AND HLIO CHAIN TABLE LEAKS.

MPEMXE6C  8606-292571  IMPROVED INTERNAL ERROR MESSAGES (SYSCAT)

MPEMXF6C  8606-267267  RESTORE/COPY OF LARGE AMOUNTS OF DATA CAN CAUSE VSM TABLE EXHAUSTION

MPEMXF9B  8606-296911  SA1047 WHEN USING PTRACE FACILITY TO DEBUG AN APPLICATION

MPEMXG0C  5003-454843  SA775 WHEN LOAD_SOM ENCOUNTERS A MALFORMED NMXL FILE

Supersedes: MPEMX90D

MPEMXH2C  8606-308481  SYSTEM ABORT 16 WHEN BOOTING FROM A NEW STAGE WHICH DOESN'T CONTAIN NL

MPEMXH9C  8606-230812  PROBLEMS WITH SPOOLFILES CREATED WITH POSIX APPS

   8606-310669 (FSERR 105, SA514)
   8606-310956
8606-318248

MPEMXJ1C  8606-300920  SADPATCH DOES NOT ACKNOWLEDGE THE CORRECT HP DIAGNOSTIC PASSWORD

MPEMXJ3B  8606-304075  SCSI MODE PAGE ENHANCEMENTS FOR FUTURE TAPE SUPPORT.

MPEMXJ4B  8606-315020  SA1516 (OR OTHER ABORTS) USING NON-POSIX PROGRAM AS CGI IN APACHE

MPEMXJ5A  8606-318190  SA1334 INFO = #610 FROM FIBRE CHANNEL TIMER ENTRY RECORD

MPEMXK0C  8606-193185  CPUS MAY FAIL TO LAUNCH DURING BOOT ON MULTIPROCESSOR SYSTEMS

MPEMXK5B  8606-321376  OPENLOG AND CLOSELOG RECORDS INCORRECT ON 7.5 AND 7.0 WITH MPEMX24

MPEMXK9A  8606-331019  HAFOERR 16 WHEN DOING AN AD WITH UNEQUAL STRING LENGTH PATH IDS
    Supersedes: MPEMXG9C

MPEMXL6B  8606-337965  OS DAT/DEBUG MACRO FIXES AND ENHANCEMENTS
    8606-297155
    8606-302492
    8606-327251
    8606-146338
    8606-334232
    8606-214092

MPEMXL8A  8606-339373  SA732 OR SYSTEM HANG ON UNIPROCESSOR A/N USING NATIVE FIBRE CHANNEL

MPEMXL9C  8606-335372  ENHANCEMENT TO REDUCE PER PROCESS VSM OBJECT/TABLE USAGE BY AIF:PE
MPEMXM0A  8606-325444  SA1050 WHEN ABORTING AN I/O REQUEST QUEUED TO SE OR F/W SCSI DAM

MPEMXM4A  8606-332711  SR6/SR7 REDUCTION ENHANCEMENT: SWITCH TO CM NAME CACHE

MPEMXM6A  8606-332724  SR6/SR7 REDUCTION ENHANCEMENT: BREAK UIT AND NOTIFY QUEUE PORT

MPEMXN0A  8606-325114  HANG OR SA1516 FOLLOWING CM STACK OVERFLOW IN FILE COMMAND

MPEMXN5A  8606-163342  SA1458 CAUSED BY THE GLB_MI_ON AND IO_CLASS_FLAG INCONSISTENCY
  Supersedes: MPEMXN9A

MPEMXP3A  8606-319501  SA614 WHEN POSIX APP WRITES PAST LIMIT OF FIXED-LENGTH RECORD FILE

MPEMXR0A  8606-291445  SA1007 OR SA0 WHEN THERE IS LRU CONTENTION BY FILE OPENS
  Supersedes: MPEMXR6A  MPEMXN6B  MPEMXQ1C

MPEMXT3B  8606-363192  LARGE DISK: LIMIT MAXIMUM SCSI DISK SIZE TO 1/2 TB
  Supersedes: MPEMXR3B  MPEMXQ4B  MPEMXM9A  MPEMXM2C
    MPEMXL5B  MPEMXK7B  MPEMXH5C  MPEMXH0B
    MPEMXG4B  MPEMXE1A  MPEMXF8B  MPEMXE7A
    MPEMXE8B  MPEMXA1C  MPEMXD5B  MPEMXA8B
    MPEMXD2A  MPEMXC8A  MPEMXA7B  MPEMX61B

MPEMXT4B  8606-391171  LARGE DISK: SSM CHANGES FOR DISK SPACE ALLOCATION AND
  8606-340906  ACCOUNTING

MPEMXT5B  8606-386360  SA817, PROCESS HANG FROM AVR PROCESS WHEN HANDLING
  8606-395031  DISK AVR REQUESTS
  Supersedes: MPEMXQ6C  MPEMXN8C  MPEMXG1C  MPEMX92C
MPEMXT7B  8606-166738  LARGE DISK: DISCFREE CHANGES TO CORRECT SECTOR COUNTS
   8606-340906

MPEMXU3B  8606-127582  LARGE DISK: REPORT FORMAT=LONG ENHANCEMENT

   Supersedes: MPEMXT2B  MPEXM8A

MPEMXU9A  8606-07815  XM RECOVERY FAILS LEADING TO INABILITY TO ACCESS ANY
   DATABASES/KSAM

MPEMXV2A  8606-409076  CATALOG.PUB.SYS CHANGES FOR VOLINFO, DEVINFO,
   8606-409078  SPOOLINFO
   8606-409079  Supersedes: MPEMXU6A  MPEMXQ0A

MPEMXV5A  8606-406692  FREADDIR ON LARGE KSAM64 FILE CAN PRODUCE FSERR 175.

   Supersedes: MPEMXP0A

MPEMXV8D  8606-414908  CI VARIABLE HPLASTSPID HAS INCORRECT VALUE AFTER
   MPEMXJ0 IS INSTALLED
   Supersedes: MPEMXJ0C

MPEMXW0A  8606-225083  APPLICATION HANG WHILE THREADED PROCESSES ARE
   ACCESSING PLFD ENTRIES

MPEMXW4A  8606-381483  RUNNING FCSCAN > 32000 TIMES CAN CAUSE SYSTEM ABORT

   Supersedes: MPEMXL0A  MPEMXK4A  MPEMXE4A

MPEMXW5A  8606-358574  SELECTIVE RESTORE FROM MULTI-TAPE STORE FAILS WITH S/R
   2280,1287,1284
   Supersedes: MPEMX85D  MPEMXL1A  MPEMXJ6C  MPEMXK1C
       MPEMXH6C  MPEMXB6B  MPEMX93C  MPEMX64C
MPEMW9A 8606-442868  DEVINFO: STRING OVERFLOW AND OWNERJOBNUM REPORTS
   8606-442869  INCORRECT OWNER
   Supersedes: MPEMW1A MPEMXP0A MPEMXP1A MPEMXP7B
   MPEMXP9A MPEMXD6B

MPEMX0B 8606-438418  CREATING VOLUME WITH 0% PERMANENT SPACE MAKES VOLSET
   UNUSABLE
   Supersedes: MPEMXP6C

MPEMX5A 8606-455284  FILE SYSTEM TABLE CREATED INCORRECTLY.
   Supersedes: MPEMXJ9A MPEMXD1A

MPEMX7A 8606-436412  FAILED RENAME MAY LEAVE A DEFAULT ACD ON A FILE

MPEMX8A 8606-459814  STORE::DIRECTORY MAY NOT CAPTURE ENTIRE DIRECTORY
   Supersedes: MPEMXP5C MPEMXT1B

MPEMX7A 8606-473015  NETWORK SPOOLER: PJL SYNTAX ERRORS WITH NEW LJ MODELS
   Supersedes: MPELXT1D

MPEMX8A 8606-473015  NETWORK SPOOLER LOGGING NEEDS TIMESTAMPS
   Supersedes: MPEMXV9C MPEMXU1A

MPENX0A 8606-490495  DATPROG VAR/LOC LIMIT INCREASED FOR LARGE SYSTEM
   DUMPS.
   Supersedes: MPEMXM7A

MPENX0A 8606-471083  SA0 ATTEMPTING TO BOOST THE PRIORITY OF A COMPLETED
   DISK I/O
   Supersedes: MPEMXW3A MPEMXW2A MPEMXP7D MPEMXT0A
   MPEMXR9A MPEMXQ3A MPEMXR4A MPEMXP5A
   MPEMXC7B MPEMXK3C MPEMXP1A MPEMXL2B
   MPEMXP5C MPEMXA9C MPEMXB2C MPELXV3C
   MPEMX81B MPEMX99C MPEMX76C
MPENX11A  1000-471951  POSSIBLE LARGE FILE (+4GB) CORRUPTION UNDER SPECIFIC CIRCUMSTANCES.
   Supersedes: MPENX06D  MPEMXY3B

NMCHD36A  8606-319268  GENERAL FIXES FOR NMMGR ON MPE/IX 7.5 (D) PATCH
   8606-264154
   8606-255163  Supersedes: NMCHD17A  NMCGDY2A  NMCGDU6A
   8606-252900
   8606-268698
   8606-234603

NMSHD79A  8606-351808  GENERAL FIXES FOR NMS/IX ON 7.5 (E PATCH)
   8606-339405
   8606-319268  Supersedes: NMSHD70A  NMSHD35A  NMSGDV1A  NMSGDU5A
   8606-195035
   8606-207282
   8606-274274

NRCMXX9C  8606-463812  SUPPORT TOOLS UPDATE - TBLMON, FEXTENTS, CHKPATHS, MACROS
   Supersedes: NRCMXT8C  NRCMXR1C  NRCMXN4C  NRCMXH1C  NRCMXB8C

NSFHD14A  8606-294605  GENERAL FIXES FOR FOS ONLY NS SERVICES ON MPE/IX 7.5
   8606-307516  (01 PATCH)
   8606-400801
   8606-403921

NSRHDH8A  8606-147395  GENERAL FIXES FOR DOMAIN NAME SERVICE Routines ON 7.5
   8606-437023  (A1 PATCH)
   Supersedes: NSRGDU7A

NSSHD12A  8606-294605  GENERAL FIXES FOR SUBSYS ONLY NS SERVICES ON MPE/IX
   8606-307516  7.5 (01 PATCH)
   8606-400801
   8606-403921

NSTHDK0A  1000-800793  GENERAL FIXES FOR NS TRANSPORT ON MPE/IX 7.5 (B6)
   1000-736705  PATCH
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ODINX19C  1000-758667  PWDS DON'T WORK AFTER 01/31/2009 ; REMOTE NODE TEST
SA1458 ON 7.0,7.5
Supersedes: ODIMXY2C  ODIMXT9E  ODIMXQ2C  ODIMXN2C
             ODIMXL3C  ODIMXE9C  ODIMX96C

ODMHD45A  8606-319268  OVDTCMGR PC BASED 14.4 PATCH E00 WITH HOST-BASED
            8606-179267  MIGRATION TOOL
                          8606-124212
                          5000-716183
                          5003-365064
                          1653-228684
                          1653-231787
                          5003-360669

PARMX97C  8606-225011  PASCAL/IX LIBRARY A.05.05.04: FIX TRAP ON OPENING PIPE

PBTHD88A  8606-344129  GENERAL FIXES FOR PCI 100BASE-T ON MPE/IX 7.5 (A0)
                          8606-337334  PATCH

PTDHDG0A  8606-410933  GENERAL FIXES FOR TELNET ARPA SERVICES ON 7.5 (G
                           8606-398859  PATCH)
                          8606-390714  Supersedes: PTDHDE5A  PTDHDD8A  PTDHDD2A  PTDHD27A
                          8606-388075  PTDGD9X9A  PTDGD9T9A
                          8606-362842
                          8606-389773
                          8606-318942
                          8606-250491
                          4701-422436
                          8606-264334
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                          8606-219917
                          8606-219640
                          8606-174457
                          8606-286302
                          8606-297984
                          8606-410286
PX2MXX2A 8606-442016 RCS CHECK OUT PROGRAM FAILS WITH STRINGTABLE OVERFLOW

RPGMXJ8C 8606-320424 RPG/IX A.00.21 CUMULATIVE PATCH

SCOMXQ8C 8606-370484 CPU QUEUE SHOWS HIGH VALUES...
   8606-335213
      Supersedes: SCOMXN1C SCOMXK8C SCOMXH4C SCOMXD7C

SMBMXG3C 8606-304287 SAMBA 2.2.8A FOR MPE 6.5, 7.0, AND 7.5 TO SUPPORT ENCRYPTED PASSWORDS

SMBMXR5C 8606-383180 SAMBA 2.2.8A FIXES FOR CAN-2004-0815
   Supersedes: SMBMXP8C

SMLHDC1A 8606-386623 SENDMAIL 8.13.1 A.02.00 FOR MPE/IX 7.5 (C) PATCH
   Supersedes: SMLHD16A SMLHD04A

SNMHD30A 8606-303544 GENERAL FIXES FOR SNMP ON MPE/IX 7.5 (B PATCH)
   8606-272894
   8606-248966 Supersedes: SNMGDT6A

SQLMXL7C 8606-307719 ALLBASE/SQL A.G3.45 FOR MPE/IX 6.5, 7.0 AND 7.5
   Supersedes: SQLMXG8C
STRHDE1A  8606-317293  GENERAL FIXES FOR STREAMS/IX ON MPE 7.5 RELEASE (E
  8606-245179 PATCH)
  8606-245307  Supersedes: STRHDB6A STRHDA5A STRGDX6A STRGDU8A
  8606-252710
  8606-212542
  8606-134134
  8606-322326
  8606-384928

TIXNX14A  1000-717048  FEW VARIABLES ARE INITIALIZED TO FACILITATE JUMBO WITH
  NETBASE ENABLED
  Supersedes: TIXMXY4A TIXMXW7A TIXMXR2A TIXMXK2D
  TIXMXG2A TIXMXD0A TIXMXA4A

TSMHD38A  8606-319268  TERMDSM PATCH FOR MPE/IX C.75.00 (B PATCH)
  8606-286262
  Supersedes: TSMGDV2A

VGCHDH3A  8606-432182  GENERAL FIXES FOR NIO VG-BT DRIVER ON MPE/IX 7.5 (A0)
  PATCH

VPLLX49E  8606-131968  VPLUS WITH ARB ENABLED RETURNS YEAR '00' AS 'A0' AND
  '10' AS 'B0', ETC

WBWHD97A  8606-356558  WEBWISE SECURE WEB SERVER A.04.00 (APACHE/IX 1.3.31)
  8606-365182  FOR MPE/IX 7.5
  Supersedes: WBWHD82A

XPMMX65C  8606-249488  FIX TO HP SURESTORE E RAID MANAGER XP (RM) UTILITIES
  FOR ERR 242