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

HP e3000 MPE/iX Computer Systems

Edition 4

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Hewlett-Packard Company
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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 detemine 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:

```
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:

```
**
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. 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.

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. 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 e" 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:

http://www.docs.hp.com/mpeix/onlinedocs/36939-90057/36939-90057.pdf

Samba 2.2.8a / SMBMXG3C

Before installing or using the Samba/iX product on MPE/iX, please visit **http://jazz.external.hp.com/src/samba/** for important installation instructions.

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 = 0xfffffff6, 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
cstm>stmshut
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

Patch Index	KPR Number	Description

ACCHDJ7A 8606-452599 GENERAL FIXES FOR ACC COMMON ON MPE/IX 7.5 (E0) PATCH

8606-377853

8606-302747 Supersedes: ACCHDA7A ACCHD86A ACCHD24A

ACCGDX8A

8606-239912

8606-292154

8606-279496

8606-298352

8606-309694

8606-344129

8606-359842

8606-359806

ARMMX56B 8606-214147 ARMSERVER ALIGNMENT TRAP

8606-212870

ATCMXG7A 8606-303974 IMAGESQL WILL NOT ATTACH IF ANY KEY ITEM NUMBER > 1023
Supersedes: ATCMXC9A

BBXMXA3C 8606-268101 BUSINESS BASIC/IX COMPILER A.00.24: FIX BUGS IN SELECT

D500-154029

COBMXJ7C 8606-315718 COBOL II/IX OPTIMIZE=1 CAN CAUSE DATA CORRUPTION
(BLANKED BYTE)
Supersedes: COBMXB0C

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 FTPHDE8A FTPHD75A FTPHD71A FTPHD68A
8606-445917 FTPHD48A FTPHD44A FTPHD09A FTPGDY9A
8606-364126 FTPGDW4A FTPGDU2A
8606-364129
8606-409300
8606-424618
8606-420106
8606-412062
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8606-364051
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8606-395344
8606-397385
8606-397749
8606-358525
8606-348971
8606-392384
8606-340675
8606-265669
8606-338048
8606-343050
8606-344454
8606-331712
8606-277230
8606-328875

8606-299250
8606-289803
8606-273530
8606-124994
8606-224234
8606-230026
8606-231617
8606-250162
8606-250495
8606-256482
8606-267935
8606-269614
8606-269712
8606-270473
8606-276240
8606-281685
8606-284297
8606-287785
8606-293906
8606-294908
8606-297039
8606-299646
8606-299968
8606-300719
8606-300832
8606-302727
8606-310306

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 MPEMXM8A

MPEMXU9A 8606-407815 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

MPEMXW9A 8606-442868 DEVINFO: STRING OVERFLOW AND OWNERJOBNUM REPORTS
8606-442869 INCORRECT OWNER
8606-442866 Supersedes: MPEMXW1A MPEMXV0A MPEMXV1A MPEMXU7B
MPEMXP9A MPEMXD6B

MPEMXX0B 8606-438418 CREATING VOLUME WITH 0% PERMANENT SPACE MAKES VOLSET UNUSABLE
Supersedes: MPEMXP6C

MPEMXX5A 8606-455284 FILE SYSTEM TABLE CREATED INCORRECTLY.

Supersedes: MPEMXJ9A MPEMXD1A

MPEMXX7A 8606-436412 FAILED RENAME MAY LEAVE A DEFAULT ACD ON A FILE

MPEMXX8A 8606-459814 STORE;;DIRECTORY MAY NOT CAPTURE ENTIRE DIRECTORY
Supersedes: MPEMXU5C MPEMXT1B

MPEMXY7A 8606-473015 NETWORK SPOOLER: PJL SYNTAX ERRORS WITH NEW LJ MODELS

Supersedes: MPELXT1D

MPEMXY8A 8606-473015 NETWORK SPOOLER LOGGING NEEDS TIMESTAMPS

Supersedes: MPEMXV9C MPEMXU1A

MPENX07A 8606-490495 DATPROG VAR/LOC LIMIT INCREASED FOR LARGE SYSTEM DUMPS.
Supersedes: MPEMXM7A

MPENX08C 8606-471083 SA0 ATTEMPTING TO BOOST THE PRIORITY OF A COMPLETED DISK I/O
Supersedes: MPEMXW3A MPEMXW2A MPEMXV7D MPEMXT0A
MPEMXR9A MPEMXQ3A MPEMXR4A MPEMXP5A
MPEMXC7B MPEMXK3C MPEMXM1A MPEMXL2B
MPEMXE5C 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

1653-296426 Supersedes: NSTHDJ9A NSTHDJ6A NSTHDJ2A NSTHDH7A
8606-106004 NSTHDH2A NSTHDG1A NSTHDE2A NSTHDD3A
8606-174426 NSTHDC9A NSTHDC2A NSTHDB1A NSTHDA1A
8606-174449 NSTHD84A NSTHD83A NSTHD22A NSTHD06A
8606-175283 NSTHD02A NSTGDW6A
8606-200275
8606-217960
8606-232667
8606-241875
8606-249651
8606-254218
8606-257335
8606-267660
8606-269347
8606-272847
8606-285610
8606-286850
8606-297205
8606-297985
8606-302842
8606-311133
8606-313326
8606-340728
8606-344330
8606-349406
8606-362866
8606-373941
8606-374750
8606-378129
8606-381067
8606-383055
8606-388358
8606-428810
8606-432598
8606-436639
8606-438926
8606-467664

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 PTDGDX9A PTDGDT9A
8606-362842
8606-389773
8606-318942
8606-250491
4701-422436
8606-264334
8606-259714
8606-175456
8606-250349
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