

**Read Before Installing
MPE/iX Release 7.0 PowerPatch 5
Software Release (C.70.05)**

HP e3000 MPE/iX Computer Systems

Edition 6



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Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304 U.S.A.

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3. Patch Information for MPE/iX 7.0 PowerPatch 5

1 Announcements for MPE/iX Release 7.0 PowerPatch 5 (C.70.05)

Note Regarding MPE/iX Beta Test Patches

HP has created a new web site listing MPE/iX patches that are in Beta Test (BT) status, and we are seeking customer volunteers to test the patches. Beta Test patches have been tested inside HP, at a minimum. But patches must be tested at one or more customer sites before they are ready to move to General Release (GR) status. The patches available for download at the HP IT Resource Center, for example are GR patches. The web site can be found at:

<http://jazz.external.hp.com/src/patches/>

If you are interested in testing any of the listed patches, please contact your local Response Center to request the patch(es).

Note Regarding MPE/iX Beta Test Patches

2 Information to Read before Installing MPE/iX 7.0 PowerPatch 5

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 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.
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
```

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.

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 by 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.

Sendmail for MPE/iX

Before installing or using the HP Sendmail product on MPE/iX 7.0 PowerPatch 5, please read the Sendmail article in the Communicator Addendum for Release 7.0 PowerPatch 5 or visit

<http://jazz.external.hp.com/src/sendmail/> for important installation instructions.

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.)

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# JAGaf56631 / 8606396648

SAMBA I job fails when trying to install on top of newer SAMBA version

If you are updating to C.70.03 on a system where Samba 2.2.8a has been previously installed, the Samba 2.0.7 I00IAMBA installation job (launched as part of the C.70.03 update process) may fail due to product account structure differences. Simply ignore the failure and continue with the PowerPatch update process so that the SMBMXG3B and SMBMXR5B Samba patches will be installed. To do this, edit the I00IAMBA installation jjob to contain only the JOB and EOJ lines. Then resume the update as per the *System Software Maintenance Manual*.

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>

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.

3 Patch Information for MPE/iX 7.0 PowerPatch 5

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

Patch Index	KPR Number	Description
ACCHD85A	8606-344129	GENERAL FIXES FOR ACC COMMON ON MPE/IX 7.0 (H0) PATCH
	8606-302747	
	8606-205407	Supersedes: ACCHD23A ACCGDX7A ACCGDV6A ACCGDJ1A
	8606-199867	ACCGD85A ACCGD50A ACCGD23A
	8606-185304	
	8606-189707	
	8606-180642	
	8606-256206	
	8606-239419	
	8606-239328	
	8606-231571	
	8606-223348	
	8606-220803	
	8606-213629	
	8606-239915	
	8606-239912	
	8606-279496	
	8606-292154	
	8606-298352	
	8606-309694	
	8606-359806	
	8606-359842	
APPGDE0A	1653-083048	PATCH TO PROVIDE TIMESTAMPS TO APPC LOGGING MESSAGES ON 7.0
ARMMX56A	8606-214147	ARMSERVER ALIGNMENT TRAP
	8606-212870	Supersedes: ARMLXY7B ARMLXW9A ARMLX35D

Patch Index	KPR Number	Description
ATCMXA2B	8606-268025	ATC CURSOR GIVES INTERNAL ERROR 852077 Supersedes: ATCMX10B ATCLXV7B ATCLXV1A ATCLXP6B ATCLXH6B
BBRLXJ1C	8606-180350	BUSINESS BASIC DEC. LIBRARY FIX FOR UNINIT ERR PARM IN BB_DEC_TO_DBL
BBXMXA3B	8606-268101	BUSINESS BASIC/IX COMPILER A.00.24: FIX BUGS IN SELECT D500-154029
BROLXY0C	8606-216551 8606-216564 8606-216571	HPBROWSE/IX 36384A.00.06 HFS FILENAME AND BYTE-STREAM FILE SUPPORT Supersedes: BROLXR2C
BT1GD36A	8606-180611	GENERAL FIXES FOR NIO 100BT LINK (B5427BA) ON MPE/IX 7.0 (A0) PATCH
CMLMXF0A	8606-220203 5005-040253	PASCAL/V 32106A.01.33 & MODCAL/V 32047A.00.05 RUN-TIME LIBS BIGPIN FIX Supersedes: CMLMX62A CMLMX03A
COBMXJ7B	8606-315718	COBOL II/IX OPTIMIZE=1 CAN CAUSE DATA CORRUPTION (BLANKED BYTE) Supersedes: COBMXB0B
CONHD94A	8606-364659 8606-244263 5003-164293 8606-214376 8606-178938 8606-183826	GENERAL FIXES FOR NIO CONSOLE ON MPE/IX 7.0 (D) PATCH Supersedes: CONGDL5A CONGD98A CONGD15A

Patch Index	KPR Number	Description
DTCGDB8A	8606-179267	7.0 DTC HOST DOWNLOADS, EQUIVALENT TO ODMGDB6, OV
	8606-124212	DTCMGR A1440E00.
	5003-443184	
	5003-453472	
	4701-425207	
	5003-365064	
	5003-303784	
	1653-024448	
	1653-137406	
	4701-293902	
	1653-160176	
	5003-716183	
DTSGDJ4A	8606-201933	DTS 7.0, NMDUMP NOT FORMATTING AFDP PROTOCOL IN 100BT
	8606-234658	AND PCI LINKS.
	8606-180504	Supersedes: DTSGDF9A DTSGDE4A DTSGDA9A DTSGD89A
	8606-199705	
	8606-183803	
	8606-184727	
	8606-185290	
	8606-142450	
	8606-152736	
	8606-131764	
EDTMXF7B	8606-284606	HP EDIT A.02.36: FIX PROBLEM WITH SPOOL FILE DISPLAY
		AND SAVE.
		Supersedes: EDTMX95B EDTMX71B
FDDGDV7A	8606-101907	GENERAL FIXES FOR FDDI DRIVER ON ON MPE/IX 7.0 (C0
	8606-249501	PATCH)
	8606-201933	Supersedes: FDDGDK1A FDDGD46A

Patch Index	KPR Number	Description
FRIMX47B	8606-215725	FIX FOR RPCD AND FIX FOR DBOPEN() SYMBOL IN DCEXL
	8606-232661	
		Supersedes: FRILXX7A FRILXH1B
FTPHDJ4A	8606-466351	SYSTEM IMPROVEMENT BALLOT ENHANCEMENTS FOR FTP 7.0
	8606-442414	RELEASE (H3 PATCH)
	8606-440776	Supersedes: FTPHDJ0A FTPHDH0A FTPHDF5A FTPHDE9A
	8606-441723	FTPHDA0A FTPHD67A FTPHD47A FTPHD43A
	8606-445917	FTPHD08A FTPGDY8A FTPGDW3A FTPGDU1A
	8606-364126	FTPGDR4A FTPGDM9A FTPGDF0A FTPGDD8A
	8606-364129	FTPGDB5A FTPGD93A FTPGD49A
	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	
	8606-348971	
	8606-392384	
	8606-265669	
	8606-340675	
	8606-343050	
	8606-344454	
	8606-277230	
	8606-338048	
	8606-331712	

Patch Index	KPR Number	Description
	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	
	8606-213959	
	8606-212581	
	8606-214235	
	8606-183738	
	8606-187118	
	8606-138260	
	8606-143977	

Patch Index	KPR Number	Description
	8606-173012	
	8606-170528	
	8606-172992	
	8606-178095	
	8606-178930	
	8606-125285	
	8606-172033	
	8606-130089	
	5003-224923	
	8606-199287	
	8606-145107	
	8606-189630	
	8606-187862	
	8606-204821	
	8606-310306	
FWSLXT5C	8606-201006	PROVIDE REV. 3728 FIRMWARE FILE FOR 28696A FW SCSI DEVICE ADAPTER
HPCMXP1B	8606-357185	C/IX A.06.06: FIXES OPTIMIZATION PROBLEMS.
INFKXH6D	D500-387787	INFORM 32246A.11.04 FIX PARENT/CHILD ITEM NOT IN ANY DATA SET OR FILE
INTHD63A	8606-325249	GENERAL FIXES FOR INTERSRV PRODUCTS ON MPE/IX 7.0 (D)
	8606-156115	
	8606-169406	Supersedes: INTHD60A INTGDG2A INTGD33A
	8606-183008	
	8606-230083	
	1653-202150	
	8606-326191	

ITOED07C 4701-401919 PROVIDE 5.5 FUNCTIONALITY IN XL.PUB.SYS FOR 6.0 & 6.5
HP3000 ITO AGENT

JAVLXP4F 4700-000000 JAVA SDK VERSION 1.3

JDBLXU8C 8606-132652 JDBC SHOULD BE ABLE TO HANDLE TRANSLATIONS
8606-179196 UNICODE<->ROMAN8
Supersedes: JDBLXB6B

LANGDV8A 8606-230463 GENERAL PATCH FOR 7.0 PUSH LAN/XL LINK & TOKEN RING
8606-201933 DRIVER (AB)
8606-245136 Supersedes: LANGDH6A
8606-266676

LAPGDN8A 8606-260739 GENERAL FIXES FOR LAPB DRIVER ON MPE/IX 7.0 (B0)

LBCMXY5B 8606-477788 TZTAB CHANGES FOR MEXICO, WEST AUSTRALIA AND FOR
PROVINCES IN CANADA
Supersedes: LBCMXX4B

LNCGDN2A 8606-196056 GENERAL FIXES FOR LINK COMMON ON MPE/IX 7.0 (B0) PATCH
8606-257355
8606-156646 Supersedes: LNCGD27A

LNKMX05A 4701-414060 LINKEDIT A.06.21: VT PERFORMANCE AND ALTXL/ALTPROG
8606-209531 STRING SPACE FIXES

LSSGDJ7A 8606-222304 GENERAL FIXES FOR LSS/IX ON 7.0 (A PATCH)

Patch Index	KPR Number	Description
MCMGD67A	8606-127018 8606-157863	GENERAL FIXES FOR MCM ON MPE/IX 7.0
MIRMP7B	8606-351194 8606-362119	MIRVUTIL CONTIGVOL IMPROVEMENTS; SA2188 DURING SHOWUSERLOG COMMAND Supersedes: MIRMX14A
MPEKXE4D	4701-392282 5003-419721	PLFD ENTRY_OWNER_PIN BEING LEFT LOCKED IN THREADED APPS.
MPELX53D	8606-129050 8606-141904	AIFSYSWIDEGET W/ITEMS 6001, 6201 DOESN'T RETURN ALL USERS/GROUPS/ACCTS
MPELX63B	4701-136457 5003-117184	DEFINITION OF AIFACCTPUT IN AIFINTR FILE CAUSES PROBLEMS WITH C.
MPELX67C	8606-131939	HPDATECONVERT DOES NOT ACCEPT A VALID OUTPUT DATE PARAMETER
MPELX68B	8606-140041	CALLING NM CKERROR CAUSES DATA MEMORY PROTECTION TRAP
MPELX80E	8606-130903	KSAM/IX DOESN'T ALLOW ERASE ACCESS WHEN OPEN FOR READ.
MPELX88B	8606-131451	AIFFILELPUT ITEM 4101 DOES NOT RECOGNIZE LARGEFILES.
MPELXD0C	8606-145242	HANG - LOOP IN XM_GET_GUFD_ACTIVE_TRANSACTIONS
MPELXH9B	8606-179819	SA1048 FROM SAMPLER_HANDLER WHEN RUNNING PERFORMANCE COLLECTION TOOLS

Patch Index	KPR Number	Description
MPELXJ3D	8606-180975	AIFCHANGELOGON ERROR HANDLING FIXES
MPELXJ6C	8606-133734	SA 615 SS143 TRYING TO DEALLOCATE A PLFD LOCKED BY SOME OTHER THREAD
MPELXJ7C	5003-459925	DATA LOSS WHEN USING TAR WITH MPE FIXED ASCII FILES
MPELXK3C	8606-177505	JOBQFILE CORRUPT AFTER START RECOVERY RESULTS IN SYSTEM HANG.
MPELXL0B	8606-167690	FSCHECK ONLINE HELP RETURNS A *ERROR: SUBYS: 0, INFO: 4. (FSCHECK 1)
MPELXM0A	8606-175252 5003-294660 5003-240036	SA 1455 WHEN RESETTING A FILE EQUATION WITH A LONG HFS PATH
MPELXN0A	8606-180312	SCSIDISC (SE DISK DM) MAY REPORT 'NORMAL' CSTM I/OS AS HAVING AN ERROR
MPELXN1A	8606-180312	SCSIACM(AUTO-CHANGER) MAY REPORT 'NORMAL' CSTM I/OS AS HAVING AN ERROR
MPELXN7A	8606-182305	ER: BINARY PATCH TO ENABLE MONITOR SUPPORT FOR MP A/N-CLASS SYSTEMS
MPELXP3B	8606-162794	BULDACCT GIVING CIERR 9166 AND 9445 WHEN MORE THAN 1020 DIRS IN A DIR
MPELXP9A	8606-189769	ADDRESSES NEED TO QUEUE I960 CARD RESETS

Patch Index	KPR Number	Description
MPELXR0B	8606-127273	INTRODUCE DEBUG ACCESS TO PDC AND I/O SPACE ON 6.5 AND LATER
MPELXT0B	5003-345553 4701-383950	NEW PATCH TO INCLUDE MPEJXV9(5.5), MPEKXL0(6.0), AND MPEKXX4(6.5).
MPELXT1C	8606-194199 8606-180352	NETWORK SPOOLER: 2 FIXES FOR PJL SYNTAX ERRORS, NMS 9621 Supersedes: MPELXL8C MPELXE0C MPELX91C
MPELXT7E	8606-200506	SA -996 DURING PURGE OF A CIR OR RIO FILE
MPELXU3A	8606-196759	7.0 SOMPATCH FAILS BINARY PATCH INSTALLATION DUE TO 49 SOM LIMIT
MPELXU7B	8606-195718	3-WAY DEADLOCK INVOLVING CM KSAM FILES AT THE START OF ONLINE BACKUP
MPELXV8C	8606-202134 5003-462440 8606-135212	HANGS OR SA1516 CAUSED BY GUFD OPEN SEMAPHORE NOT BEING UNLOCKED
MPELXW1A	8606-207669	SYMOS CHANGES (FOR DAT/DEBUG) TO REFLECT PORTS CHANGES IN MPELXQ8
MPELXW8B	8606-212538	NEW VERSION OF OTHDXL.THREAD.SYS FILE FOR DRAFT 4 SUPPORT
MPELXX1A	8606-214299	ODE CANNOT LOAD THE SYSTEM LIBRARY 'FILE NOT FOUND: SYSLIB

Patch Index	KPR Number	Description
MPELXX5A	8606-213333	DAT UNABLE TO ACCESS PHYSICAL ADDRESSES ABOVE 4GB ON A PRELUDE
MPELXY8B	8606-211465	SA1350 DURING TERMINATION OF A PROCESS WITH DEBUG BREAKPOINTS SET
MPEMX02C	8606-217821	SYSTEM HANG DUE TO 2-WAY DEADLOCK BETWEEN NETWORK SOCKET SEMAPHORES Supersedes: MPELXT9C
MPEMX27C	8606-227964	HANG OR SA1516 WITH MPELX41 INSTALLED.
MPEMX29C	8606-225491	CATALOG CHANGES FOR MPEMX28 FIXES (CONSOLE HANG DUE TO ESCAPE SEQ) Supersedes: MPEMX08B MPELXK8B MPELX98B MPELX95B
MPEMX38D	8606-226955	SA0 DOING A DISCFREE ON VOLUME SET WHICH IS BEING
	8606-241934	VSCLOSE`D
MPEMX39B	8606-173839	HPMC POSSIBLE DURING SHUTDOWN ON > 3.75GB MEMORY SYSTEMS Supersedes: MPEMX52A MPEMX06A MPELXL5B MPEMX01A MPELXK7C
MPEMX43C	8606-180156	FIXES FOR MULTIPLE JOBQUEUES (TOTAL COUNTER, JS 61,
	8606-180157	CIWARN 10008)
	8606-180158	Supersedes: MPEMX28B MPELXV2C
MPEMX49A	8606-236710	MEMLOGD WILL NOT RUN ON 99X SYSTEMS Supersedes: MPELXX0C MPELXC4C

Patch Index	KPR Number	Description
MPEMX50A	8606-236196	FILESET '/' FAILS TO SELECT FILES WHEN USING BACKPACK/IX FROM ROC SW. Supersedes: MPELXY3C MPELXU4C
MPEMX54A	8606-237023	POSSIBLE PROBLEMS WITH FILES CREATED WITH MKNOD COMMAND. Supersedes: MPELXQ4C MPEKXK4F MPEKXG3D
MPEMX55B	8606-236720	EXPAND THE NUMBER OF NONRESIDENT PORTS Supersedes: MPELXQ8A
MPEMX59B	8606-242242	WORKAROUND FOR OCT CORNERCASE INVOLVING SCANFMVAT CM CODE Supersedes: MPEMX33A
MPEMX67B	8606-250351	AIFFILEGGET 5101 SHOWS EOF=0 FOR SMALL FILES AFTER MPELXV0 Supersedes: MPELXV0B
MPEMX69A	8606-249165	6.5 TO 7.0 UPDATE FAILS WITH CHASSIS CODE CE4A OR SHOWS DUMPDUMPDUMP
MPEMX74B	8606-223461	IODFAULT GENERIC DEVICE IDS TO SUPPORT CURRENT AND FUTURE DISKS Supersedes: MPELXV9A MPELXQ3C MPELXL1C MPELXC3D
MPEMX79C	8606-259835	ALLOW SCSI PASSTHRU DEVICE MANAGER TO HANDLE DEVICE IDS > THAN 7
MPEMX94A	8606-244832	CIERR 981 IF SHELL EXIT CMD IS LAST RECORD IN JOB'S VARIABLE RECORD

Patch Index	KPR Number	Description
MPEMxA0A	8606-269684	SA1047 OR SA818 WITH INTERRUPTS INAPPROPRIATELY DISABLED IN EIEM
MPEMxA5C	8606-269701 8606-221095 8606-274443	SA1458 DURING CREATEPROCESS DUE TO PROBLEMS HANDLING POSIX ENVIRON Supersedes: MPEMx86A MPELxY6E MPEMx00C MPELxX3D MPELxK5B MPELxN4B MPELxL2J MPELxM3A MPELxK6A
MPEMxB1A	8606-276005	:SHUTDOWN SYSTEM;RESTART CAN RESULT IN SA 1047 AFTER SHUT 6 ON 9X9,99X
MPEMxC6A	8606-284194 8606-305917	SA1740 OR NEWMIRRSET FAILS; MIRVUTIL HANGS ON FILL_DISC_WAIT CONDITION
MPEMxD6A	8606-272806	SYSTEM ABORT 1458 OR 2559 WHEN NETWORK DISCONNECT INTERRUPTS NEWCI Supersedes: MPELxC2D
MPEMxD8C	8606-288647	ALLOW LISTING OVER 100 SOMS WITH VERSION.PUB.SYS Supersedes: MPEMxC2A
MPEMxE2A	8606-288084	ARRAYLOG -E REPORTS ERROR NUMBER : 50 AND HLIO CHAIN TABLE LEAKS.
MPEMxE6B	8606-292571	IMPROVED INTERNAL ERROR MESSAGES (SYSCAT)
MPEMxF6B	8606-267267	RESTORE/COPY OF LARGE AMOUNTS OF DATA CAN CAUSE VSM TABLE EXHAUSTION

Patch Index	KPR Number	Description
MPEMXG0B	5003-454843	SA775 WHEN LOAD_SOM ENCOUNTERS A MALFORMED NMXL FILE Supersedes: MPEMX90C MPELXN2C
MPEMXG9B	8606-308787 8606-311257 8606-316973	HAUTIL/HASTAT CHANGES TO SUPPORT FIBRE CHANNEL DEVICES. Supersedes: MPEMXK5A MPEMX53B MPEMX24A MPELXU9C MPELXQ9A MPEKXD3C MPEKXD4C
MPEMXH2B	8606-308481	SYSTEM ABORT 16 WHEN BOOTING FROM A NEW STAGE WHICH DOESN'T CONTAIN NL
MPEMXJ1B	8606-300920	SADPATCH DOES NOT ACKNOWLEDGE THE CORRECT HP DIAGNOSTIC PASSWORD Supersedes: MPEMX19B
MPEMXJ3A	8606-304075	SCSI MODE PAGE ENHANCEMENTS FOR FUTURE TAPE SUPPORT. . . .
MPEMXJ4A	8606-315020	SA1516 (OR OTHER ABORTS) USING NON-POSIX PROGRAM AS CGI IN APACHE
MPEMXJ6B	8606-305679 8606-307058	2 FIXES FOR 7X24 TRUE-ONLINE TURBOSTORE/IX Supersedes: MPEMXK1B MPEMXH6B MPEMXB6A MPEMX93B MPEMX64B MPELXY4B MPELXK1B MPELXR9B MPELXL7C MPELXL9A MPELXH3B MPELXC7C MPELXF4B MPELX94C MPELX85C MPELX58C MPELX62C

Patch Index	KPR Number	Description
MPEMXL6A	8606-337965	OS DAT/DEBUG MACRO FIXES AND ENHANCEMENTS
	8606-297155	
	8606-302492	
	8606-327251	
	8606-146338	
	8606-334232	
	8606-214092	
MPEMXM9B	8606-347543	HAFO ERROR 1012 AND LDEV 1 IN FAILED FAILOVER STATE AFTER SLT UPDATE
		Supersedes: MPEMXL5A MPEMXH5B MPEMXK7A MPEMXG4A MPEMXH0A MPEMXE1B MPEMXF8A MPEMXD2C MPEMXG1B MPEMXD9A MPEMXE8A MPEMXD5A MPEMXC4A MPEMX92B MPEMXA8A MPEMXA7A MPEMXA1B MPEMX84A MPEMX61A MPEMX75B MPEMX60A MPEMX41B MPEMX36A MPEMX25D MPEMX17A MPEMX15A MPELXR8B MPELXN9B MPELXW5B MPELXW0A MPELXQ7B MPELXM9A MPELX93D MPELXV6A MPELXV4A MPELXR7A MPELXM7A MPELXN3A MPEKXD2C MPELX84D MPELXM8A
MPEMXP6B	8606-351194	VOLUTIL CONTIGVOL IMPROVEMENTS; SA2188 DURING
	8606-362119	SHOWUSERLOG COMMAND
		Supersedes: MPELX81C

Patch Index	KPR Number	Description
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MPEMXQ3B 8606-362624 ENHANCEMENT: LOAD PDC INTO MAIN MEMORY ON A- AND N-CLASSES

Supersedes: MPEMX21B MPEMXR6B MPEMXQ1B MPEMXK3B
MPEMXL2A MPEMXC7A MPEMXE5B MPEMXB3B
MPEMX99B MPEMXB2B MPEMXA9B MPEMX81A
MPELXQ5C MPELXV3B MPEMX32B MPEMX42A
MPEMX11B MPEMX34B MPELXE2C MPELXM5B
MPELXW7C MPELXW3D MPEKXR0F MPELXH8D
MPELXH5C MPELXF8C MPELX86B MPELXQ0A
MPELXJ9D MPELXG6D MPELXN6A MPELXF2C
MPELXD7B MPELXD3B MPELX75B MPELXN5A
MPELXL3B MPEMX76A MPELXB3B MPELXU2A
MPELXM1A

MPEMXU4A 8606-394747 AIF:PE RUNTIME FIX FOR SYSTEM ABORT 1456 FROM PPT_GET

Supersedes: MPEMXU0A MPELXU5C

MPEMXV6A 8606-265749 SA1457 WHEN ATTEMPTING TO DELETE NM DEVICE FILE WHICH
8606-416005 DOES NOT EXIST

NMCGDV0A 8606-252900 GENERAL FIXES FOR NMMGR ON MPE/IX 7.0 (F) PATCH

8606-238543

8606-143672 Supersedes: NMCGDC6A NMCGDP1A NMCGDM6A NMCGDD5A

8606-129395 NMCGD88A

8606-155933

8606-156227

8606-175312

8606-143669

8606-196541

8606-135837

8606-186775

8606-268698

8606-234603

Patch Index	KPR Number	Description
NMSHD78A	8606-351808	GENERAL FIXES FOR NMS/IX ON 7.0 (G PATCH)
	8606-274274	
	8606-195035	Supersedes: NMSGDT2A NMSGDL0A NMSGDD6A NMSGDA5A
	8606-207282	
	8606-135837	
NRCMXX9B	8606-463812	SUPPORT TOOLS UPDATE - TBLMON, FEXTENTS, CHKPATHS, MACROS
		Supersedes: NRCMXT8B NRCMXR1B NRCMXN4B NRCMXH1B NRCMXB8B NRCMX88B NRCMX20B NRCLXX9C NRCLXP0C
NSFHDF3A	8606-403921	GENERAL FIXES FOR FOS ONLY NS SERVICES ON MPE/IX 7.0
	8606-180749	(09 PATCH)
	8606-187034	Supersedes: NSFHD93A NSFHD13A NSFGDG6A NSFGDC5A
	8606-193710	NSFGDC4A NSFGDC3A NSFGDC2A NSFGDC1A
	8606-198305	
	8606-206223	
	8606-207282	
	8606-225376	
	8606-294605	
	8606-307516	
	8606-355501	
NSRGDE7A	8606-147395	GENERAL FIXES FOR DOMAIN NAME SERVICE ROUTINES ON 7.0
	4701-326645	(A1 PATCH)
	8606-202904	Supersedes: NSRGD69A

Patch Index	KPR Number	Description
NSSHDF2A	8606-403921	GENERAL FIXES FOR SUBSYS ONLY NS SERVICES ON MPE/IX
	8606-180749	7.0 (09 PATCH)
	8606-187034	Supersedes: NSSHD92A NSSHD11A NSSGDG7A NSSGDB9A
	8606-193710	NSSGDA1A NSSGD80A NSSGD72A NSSGD51A
	8606-198305	NSSGD22A
	8606-206223	
	8606-207282	
	8606-225376	
	8606-294605	
	8606-307516	
	8606-355501	
NSTHDE3A	8606-374750	GENERAL FIXES FOR NS TRANSPORT ON MPE/IX 7.0 (B6)
	1653-296426	PATCH
	4701-413088	Supersedes: NSTHDD4A NSTHDC8A NSTHDB7A NSTHD41A
	5003-437616	NSTHD21A NSTHD05A NSTHD01A NSTGDV5A
	5003-442715	NSTGDV4A NSTGDR5A NSTGDQ5A NSTGDK7A
	5003-457499	NSTGDB2A NSTGD97A NSTGD55A NSTGD45A
	8606-106004	
	8606-114484	
	8606-128099	
	8606-128926	
	8606-133373	
	8606-134230	
	8606-138076	
	8606-151861	
	8606-152658	
	8606-154796	
	8606-159845	
	8606-16234	

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Patch Index	KPR Number	Description
	8606-168856	
	8606-169352	
	8606-171294	
	8606-174426	
	8606-174449	
	8606-174790	
	8606-180014	
	8606-180217	
	8606-181824	
	8606-182274	
	8606-185990	
	8606-186773	
	8606-189222	
	8606-198894	
	8606-200275	
	8606-202562	
	8606-205404	
	8606-213360	
	8606-217960	
	8606-218133	
	8606-232667	
	8606-241875	
	8606-241914	
	8606-249651	
	8606-252796	
	8606-254218	
	8606-257335	
	8606-259173	
	8606-267660	
	8606-269347	
	8606-272847	
	8606-285610	
	8606-286850	
	8606-297205	

Patch Index	KPR Number	Description
	8606-297985	
	8606-302842	
	8606-311133	
	8606-313326	
	8606-344330	
	8606-349406	
	8606-378129	
	8606-381067	
	8606-388358	
ODIMXY2B	8606-435378	SCSIDLT XPRT TOOL ADD ASCII TO LOG PAGE 7 FORMAT,NIO
	8606-403002	FWSCSI XPRT DELAY
	8606-390787	Supersedes: ODIMXV4B ODIMXT9D ODIMXQ2B ODIMXN2B
	8606-385813	ODIMXL3B ODIMXE9B ODIMX96B ODIMX66B
	8606-362660	ODILXY2B ODILXT4A ODILX92A ODILXL6A
	8606-344345	
	8606-349534	
	8606-334038	
	8606-336708	
OFDMXK6A	8606-329460	MAPPER2 DOES NOT RECOGNIZE DEVICES ON A6828A AND A6829A U160 HBA'S
OSPMXX6B	8606-416651	PREDICTIVE - FINAL EOS PATCH. PREVENTS DATACOMM,ACTION SUMMARY ENTRIES
		Supersedes: OSPMXQ7E OSPMXH3B OSPMXC1B OSPMXC1A OSPMX58A OSPMX30A OSPLXY5A OSPLXD2C
PARMX97B	8606-225011	PASCAL/IX LIBRARY A.05.05.04: FIX TRAP ON OPENING PIPE

Patch Index	KPR Number	Description
PBTHD87A	8606-344129	GENERAL FIXES FOR PCI 100BASE-T ON MPE/IX 7.0 (D0)
	8606-155404	PATCH
	8606-155480	Supersedes: PBTGDV9A PBTGDJ0A PBTGD53A PBTGD28A
	8606-160071	
	8606-167444	
	8606-196056	
	8606-223348	
	8606-159438	
	8606-156565	
	8606-167914	
	8606-223399	
	8606-201933	
	8606-201930	
	8606-223379	
	8606-222269	
	8606-231571	
	8606-337334	
PSIGDW0A	5000-704320	GENERAL FIXES FOR PSI COMMON ON MPE/IX 7.0 (B0)
	8606-241622	
	8606-257493	Supersedes: PSIGDN6A PSIGDM8A
	8606-255193	
	8606-260739	
	8606-263624	
	8606-266676	

Patch Index	KPR Number	Description
PTDHDG2A	8606-410933	GENERAL FIXES FOR TELNET ARPA SERVICES ON 7.0 (M
	8606-410286	PATCH)
	8606-398859	Supersedes: PTDHDE6A PTDHDD7A PTDHDD1A PTDHD26A
	8606-390714	PTDGDR2A PTDGDQ8A PTDGDP0A PTDGDK6A
	8606-388075	PTDGD83A PTDGD64A
	8606-318942	
	8606-362842	
	8606-389773	
	8606-250491	
	8606-264334	
	8606-259714	
	8606-175456	
	8606-250349	
	8606-219917	
	8606-177947	
	8606-188790	
	8606-194879	
	8606-194441	
	8606-145672	
	8606-163420	
	8606-169841	
	8606-165041	
	4701-422436	
	8606-219640	
	8606-297984	
	8606-286302	
	8606-174457	
PX2LXB1C	5003-273706	TOBYTE CAN CREATE HUGE BYTESTREAM FILES WHEN TRIM (-T) IS USED.

Patch Index	KPR Number	Description
QUEMX68B	8606-201967	QUERY/IX HP32216D.03.21 RECORD FIND RELEASES LOCK AND
	8606-225099	NO QUIT(1234)
	8606-228193	Supersedes: QUELXP5C
RJEGDP8A	8606-255193	RJE CAUSES SA1403 FROM IO SERVICES AFTER MEMORY
	8606-256454	UPGRADE FROM 2 TO 8 GB
RPGMXJ8B	8606-320424	RPG/IX A.00.21 CUMULATIVE PATCH
SCOMXQ8B	8606-370484	CPU QUEUE SHOWS HIGH VALUES...
	8606-335213	
		Supersedes: SCOMXN1B SCOMXK8B SCOMXH4B SCOMXD7B SCOMX72B SCOLXR6A
SDLGDQ0A	8606-297493	MPE SNA SDLC/IX 6.5-7.0 LARGE MEMORY: HP-PB DRIVER NOT
	8606-259125	RELEASING IOVAS
SEALXR4A	8606-194725	HPSEARCH/IX 36383A.00.02 5 DIGIT PIN SUPPORT
SMBMXG3B	8606-304287	SAMBA 2.2.8A FOR MPE 6.5, 7.0, AND 7.5 TO SUPPORT ENCRYPTED PASSWORDS
		Supersedes: SMBLXT2B SMBLXQ1B SMBLXK2C
SMBMXR5B	8606-383180	SAMBA 2.2.8A FIXES FOR CAN-2004-0815
		Supersedes: SMBMXP8B
SMLHDC0A	8606-386623	SENDMAIL 8.13.1 A.02.00 FOR MPE/IX 7.0 (D) PATCH
		Supersedes: SMLHD15A SMLHD03A

Patch Index	KPR Number	Description
SNAHD19A	8606-293466	ALLOW SHUTDOWN FROM HPSNASENDNORMAL WHEN IN WAITED SEND Supersedes: SNAGDW7A SNAGDQ7A SNAGDN3A SNAGDJ8A SNAGDG5A SNAGDA8A SNAGDA0A SNAGD84A SNAGD74A SNAGD52A
SNMGDT5A	8606-135837 8606-215702 8606-206689 8606-167444 8606-105736 8606-128953 8606-248966 8606-272894	GENERAL FIXES FOR SNMP ON MPE/IX 7.0 (D PATCH) Supersedes: SNMGDM1A SNMGDD4A SNMGD43A
SPTMX04C	8606-143347	SPT/IX B1776A/B1777A A.07.02 AIF/PE HANG FIX Supersedes: SPTLXR1C
SQLMX37C	8606-222724 8606-211458 8606-177880 8606-177876	ALLBASE/SQL A.G3.32 FOR MPE/IX 6.0, 6.5, AND 7.0 Supersedes: SQLLXD8A
SRCLXQ6A	8606-194538	HPSRC A.01.31: HANDLE BIG PINS FOR MPE/IX 7.0 EXPRESS 1

Patch Index	KPR Number	Description
STRHDE7A	8606-317293	GENERAL FIXES FOR STREAMS/IX ON MPE 7.0 RELEASE (G
	8606-245179	PATCH)
	8606-245307	Supersedes: STRHDE0A STRHDB5A STRHDA8A STRGDW2A
	8606-252710	STRGDQ6A STRGDL1A STRGD78A
	8606-212542	
	8606-134134	
	8606-384928	
	8606-322326	
TIXMXY4B	8606-468999	DBSCHEMA STOPS CREATION OF BLOCK SIZE GREATER THAN
		IMAGE MAX. 2560 HWS
		Supersedes: TIXMXW7B TIXMXK2B TIXMXC3C TIXMX73C
		TIXMX63C TIXMX31C TIXMX12C TIXLXW6C
		TIXLXL4B
TRRLXP7C	D500-140475	TRANSACT/IX RUN TIME 30138A.07.02 LONG BANNERS AND
	D500-109819	TITLE OPTION FIXES
TRXLP8C	8606-174766	TRANSACT/IX COMPILER 30138A.07.02 INTRINSIC CALLS AND
	8606-175370	IPFILE COMPILE
TSMGD73A	8606-189379	EQUIVALENT TO TSMGD58A. WORKAROUND FOR 7.0 EXPRESS-1
	8606-178330	PATCH CONFLICT.
		Supersedes: TSMGD58A TSMGD32A
VG1GD39A	8606-180611	GENERAL FIXES FOR NIO 100VG LINK (B5426BA) ON MPE/IX
		7.0 (A0) PATCH
VGCGDH4A	8606-245136	GENERAL FIXES FOR NIO VG-BT DRIVER ON MPE/IX 7.0 (B0)
	8606-223348	PATCH

Patch Index	KPR Number	Description
VGPHD18A	8606-180611	GENERAL FIXES FOR NIO VG-BT FORMATTER ON MPE/IX 7.0
	8606-201933	(B0) PATCH
	8606-231571	Supersedes: VGFGDW1A VGFGDH5A VGFGD42A
	8606-159637	
	8606-223379	
VPLX49D	8606-131968	VPLUS WITH ARB ENABLED RETURNS YEAR '00' AS 'A0' AND '10' AS 'B0', ETC
WBWHD96A	8606-356558	WEBWISE SECURE WEB SERVER A.04.00 (APACHE 1.3.31) FOR
	8505-365182	MPE/IX 7.0
		Supersedes: WBWHD81A WBWGD7A
XPMMX65B	8606-249488	FIX TO HP SURESTORE E RAID MANAGER XP (RM) UTILITIES FOR ERR 242
		Supersedes: XPMLXD9B