

**Read Before Installing
MPE/iX Release 7.5 PowerPatch 1
Software Release (C.75.01)**

HP e3000 MPE/iX Computer Systems

Edition 2



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1 Information You Need Before Installing MPE/iX 7.5 PowerPatch 1

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/JHTTTPD` 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 `JHTTTPD` job stream file by using the WebWise `/APACHE/PUB/JHTTTPD.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 `http.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 `http.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/PUB/conf/ssl.key/server.key` and `/APACHE/PUB/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.

Support for Using the Entire Disk Space on LDEV 1

With this release, the MPE/iX operating system uses the full capacity of the disk configured as LDEV 1. This feature works with all HP supported disks and disk arrays regardless of the disk capacity. It is enabled for all the LDEV 1 disks with a disk capacity of more than 5 GB.

Before installing, you should be aware of the following considerations.

It is strongly recommended that a FULL system backup be taken before install.

NOTE DO NOT miss reading this. After the install, if backdating to a pre-7.5 version is required at a later point, HP recommends that the user perform an INSTALL from the pre-7.5 backup instead of backdating. Alternatively, the user may perform a full backup, INSTALL a pre-7.5 version, and then restore files from the backup.

Behavior of device specification by `DEV=**$system_master` or `1` in `FILE/BUILD` commands needs to be understood. With `DEV=**$system_master` specification, the files would be placed within the first 4 GB of LDEV 1. If the device is specified as `DEV=1`, then the system would attempt to store the files beyond 4GB disk space. If that fails, the files would be placed within 4GB disk space. Note that system utilities (`ISL>LS`) need to be stored within the first 4 GB of disk space and the install/update process will take care of this.

For more information on the LDEV 1>4GB enhancement, see “Support for Using the Entire Disk Space on LDEV 1” in the Communicator for MPE/iX Release 7.5. This document is available online at docs.hp.com.

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MPE/iX 7.5 Software Maintenance Manual HTML Incorrectly Created

As the InstantInfo CD that came with the MPE/iX Release 7.5 has incorrect step numbering in several sections of the *HP e3000 MPE/iX System Software Maintenance Manual*, please reference only the online versions of this document. The URLs for this manual are:

PDF format (preferred for use) <http://docs.hp.com/mpeix/pdf/30216-90344.pdf>

HTML format <http://docs.hp.com/mpeix/onlinedocs/30216-90344/30216-90344.html>

2 Other Information You Should Know

TurboIMAGE B-Tree Behavior Clarification

by Tien You Chen -- MPE/iX Lab

Possible Confusing Behavior

TurboIMAGE has supported B-Tree indices since C.07.00. Even though a user can create a B-Tree index only on the master data set's key item, s/he can perform index searches using all of its corresponding detail data set search items as well. Users can now call DBFIND to perform a generic key search on a master data set, then chained DBGETs to return all the qualified records. Confusion arises when a user calls DBFIND on a master data set but, before or between the chained DBGETs of those qualified records, s/he calls another DBFIND on a detail data set using a search item linked to the master currently being accessed chained. This DBFIND will reposition the chain pointer on the master. As a result the user may get an 'end of chain' status for the next DBGET to the master data set. Since these two DBFINDs are finding against two different data sets, the user is amazed at the interference between these two.

What to Expect and How to Solve

Because only one KSAM/iX file is attached to each master data set, all B-Tree access for related detail data sets also goes, via the master data set, to the same KSAM file. Since there is only one logical record pointer in the KSAM file, a new DBFIND, which positions the logical record pointer, affects the current reading. In addition, the internal runtime data structure, though allocated one per data set, is still affected. Therefore, even if the second DBFIND on the detail data set is not a B-Tree DBFIND, many flags in the runtime data structure are reset. The next DBGET to the master data set acts as though there was no previous B-tree DBFIND to the master.

This combination of access methods, mixing DBFIND/chain DBGET to a master with DBFIND/chain DBGET to a detail using a path to that same master, is not common. We suggest the user call a second DBOpen to handle the second DBFIND. However, please remember the second DBOpen is needed only when calling DBFIND on a detail chain while still performing chained DBGETs on the related master data set.

3 Patch Information for MPE/iX 7.5 PowerPatch 1

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

Patch Index	KPR Number	Description
ACCGDX8A	8606-239912 8606-292154 8606-279496	GENERAL FIXES FOR ACC COMMON ON MPE/IX 7.5 (A0) PATCH
ARMMX56B	8606-214147 8606-212870	ARMSERVER ALIGNMENT TRAP
BBXMXA3C	8606-268101 D500-154029	BUSINESS BASIC/IX COMPILER A.00.24: FIX BUGS IN SELECT
COBMB0C	8606-275314 8606-278445	COBOL II/IX PERFORMANCE PROBLEM
CONGDU3A	5003-164293 8606-214376	GENERAL FIXES FOR NIO CONSOLE ON MPE/IX 7.5 (A) PATCH
DTCGDU4A	8606-124212 8606-179267	7.5 DTC HOST DOWNLOADS, EQUIVALENT TO ODMGDB6, OV DTCMGR A1440E00
FRIMX47E	8606-215725 8606-232661	FIX FOR RPCD AND FIX FOR DBOPEN() SYMBOL IN DCEXL
FTPGDU2A	8606-270473 8606-276240 8606-281685 8606-267935 8606-231617 8606-250495 8606-250162 8606-230026 8606-224234 8606-124994	GENERAL FIXES FOR FTP FOR 7.5 RELEASE (A PATCH)
FWSLXT5D	8606-201006	PROVIDE REV. 3728 FIRMWARE FILE FOR 28696A FW SCSI DEVICE ADAPTER
ITOED07D	4701-401919	PROVIDE 5.5 FUNCTIONALITY IN XL.PUB.SYS FOR 6.0 & 6.5 HP3000 ITO AGENT

Patch Index	KPR Number	Description
LNKMXE3A	8606-287479	LINKEDIT A.06.24: FIX FOR SILENT TRUNCATION OF LONG INFO STRING.
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
MPEMX86B	8606-264335	APPLICATION PROCESSES CALLING PX_SLEEP MAY HANG
MPEMX91C	8606-245702	LABELLED TAPES CAUSE AUTOLOADER TO SKIP TAPES BETWEEN JOBS
MPEMX93C	8606-259132	TURBOSTORE TOLB CHANGES EOF OF MESSAGE FILE OPEN FOR READ/COPY ACCESS Supersedes: MPEMX64C
MPEMX94B	8606-244832	CIERR 981 IF SHELL EXIT CMD IS LAST RECORD IN JOB'S VARIABLE RECORD
MPEMXB1B	8606-276005	:SHUTDOWN SYSTEM;RESTART CAN RESULT IN SA 1047 AFTER SHUT 6 ON 9X9,99X
MPEMXC2B	8606-225720	FIX FOR ERROR OPENING FILE (VERSION ERROR 4) WITH VERSION.PUB.SYS
MPEMXC6B	8606-284194	NEWMIRRSET FAILS; MIRVUTIL HANGS ON FILL_DISC_WAIT CONDITION
MPEMXD1A	8606-287622	THREADED APPLICATIONS (RPCD/ARMSERVER) WILL NOT RUN IN BATCH MODE
MPEMXD6B	8606-272806	SYSTEM ABORT 1458 OR 2559 WHEN NETWORK DISCONNECT INTERRUPTS NEWCI
MPEMXD9B	8606-288751	BX00 0127 DEAD HALT INSTEAD OF SYSTEM ABORT ON 9XX SERIES SYSTEMS
MPEMXE4A	8606-293286	SA2173 WITH NATIVE FC DISKS WHILE USING HAFO OR DOING IOCONFIG DDEV
MPEMXE6C	8606-292571	IMPROVED INTERNAL ERROR MESSAGES (SYSCAT)

Patch Index	KPR Number	Description
MPEMXE7A	8606-295465	CANNOT ADD MORE THAN 8 IO PATHS TO A 3-WAY N CLASS SYSTEM Supersedes: MPEMXE8B MPEMXA1C MPEMXD5B MPEMXA8B MPEMXD2A MPEMXC8A MPEMXA7B MPEMX61B
NMCGDY2A	8606-264154 8606-255163 8606-252900 8606-268698 8606-234603	GENERAL FIXES FOR NMMGR ON MPE/IX 7.5 (B) PATCH Supersedes: NMCGDU6A
NMSGDV1A	8606-195035 8606-207282 8606-274274	GENERAL FIXES FOR NMS/IX ON 7.5 (B PATCH) Supersedes: NMSGDU5A
NRCMXB8C	0000-000000	SUPPORT TOOLS UPDATE - FMTIOERR, TCPIP, NETMAC
NSRGDU7A	8606-147395	GENERAL FIXES FOR DOMAIN NAME SERVICE ROUTINES ON 7.5 (A0 PATCH)
NSTHD02A	8606-232667 1653-296426 8606-106004 8606-174426 8606-174449 8606-200275 8606-217960 8606-241875 8606-249651 8606-254218 8606-257335 8606-267660 8606-269347 8606-272847 8606-285610	GENERAL FIXES FOR NS TRANSPORT ON MPE/IX 7.5 (A1) PATCH Supersedes: NSTGDW6A
ODIMXE9C	8606-223762	ONLINE DIAGNOSTICS VERSION A.75.03 - XT AND FWU DISK ENCLOSURE SUPPORT Supersedes: ODIMX96C
OSPMXF4C	8606-296050 8606-282093 8606-279429 8606-264343 8606-267874 8606-283528	PSSWINVP UNRESOLVED EXTERNALS OR GENERATES SWINV(590) - UNINIT VARS

Patch Index	KPR Number	Description
	8606-244335	
	8606-230684	
	8606-230536	
	8606-225828	
	8606-226424	
	8606-224626	
	8606-222792	
	8606-222288	
	8606-222014	
	8606-221677	
	8606-218085	
	8606-215585	
	8606-206286	
	8606-212090	
	8606-208579	
	8606-142971	
	4701-346585	
	4701-343061	
	8606-207336	
	8606-202060	
	8606-201462	
	8606-195350	
	8606-214353	
PARMX97C	8606-225011	PASCAL/IX LIBRARY A.05.05.04: FIX TRAP ON OPENING PIPE
PTDGD9A	8606-250491	GENERAL FIXES FOR TELNET ARPA SERVICES ON 7.5 (B
	4701-422436	PATCH)
	8606-264334	Supersedes: PTDGDT9A
	8606-259714	
	8606-175456	
	8606-250349	
	8606-219917	
	8606-219640	
SCOMXD7C	8606-278192	PCS/SCOPE/IX B1794B.NN.55.02 - SYSTEM TYPE REFORMATTED
	8606-288807	INTO 10 CHAR FI
	8606-248924	
SNMGDT6A	8606-272894	GENERAL FIXES FOR SNMP ON MPE/IX 7.5 (A PATCH)
	8606-248966	
STRGD6A	8606-245179	GENERAL FIXES FOR STREAMS/IX ON MPE 7.5 RELEASE (B
	8606-245307	PATCH)
	8606-252710	Supersedes: STRGDU8A
	8606-212542	
	8606-134134	

Patch Index	KPR Number	Description
TIXMXD0A	8606-284008	GB FILE LEFT OPEN EVEN NO ACCESSOR TO THE DATABASE. Supersedes: TIXMXA4A
TSMGDV2A	8606-286262	TERMSM PATCH FOR MPE/IX C.75.00 (A PATCH)
VPL LX49E	8606-131968	VPLUS WITH ARB ENABLED RETURNS YEAR '00' AS 'A0' AND '10' AS 'B0', ETC
XPMMX65C	8606-249488	FIX TO HP SURESTORE E RAID MANAGER XP (RM) UTILITIES FOR ERR 242

