MPE/iX Updating and Patch Management Part One

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Some useful URLs

Documentation: docs.hp.com

MPE/iX 5.5 MPE/iX 6.0 MPE/iX 6.5 MPE/iX 7.0 MPE/iX 7.5 Above combined Old-style 5.0 & 5.5

"jazz"

IT Resource Center Mark Bixby's port & utility site Allegro Consultants Beechglen John Burke's Hidden Value, net.digest, "Best Of", etc. docs.hp.com/mpeix/5.5/index.html docs.hp.com/mpeix/6.0/index.html docs.hp.com/mpeix/6.5/index.html docs.hp.com/mpeix/7.0/index.html docs.hp.com/mpeix/7.5/index.html docs.hp.com/all/index.html docs.hp.com/mpeix/docs5/index.html

> jazz.external.hp.com itrc.hp.com www.bixby.org/mark/ www.allegro.com www.beechglen.com www.burke-consulting.com

Updating to a New Release

- Types of Releases
- Time Line of Current Releases
- Update Package Contents
- The Update Process
- Notes for MPE/iX 6.5
- Notes for MPE/iX 7.0
- Notes for MPE/iX 7.5

Note: This section (Updating to a New Release) based upon a presentation originally prepared by Paul Edwards.

Types of Releases

- Push
- Pull
- PowerPatch
- Express

Time Line for Current Releases

- 6.0 supported through 10/31/2002
- 6.5 supported through 12/31/2004
- 7.0 supported through 12/31/2006
- 7.5 supported through 12/31/2006
- "Parking Release" supported through 12/31/2006

Update Package Contents - I

- Tapes
 - SLT
 - FOS
 - SUBSYS (customized)
 - PowerPatch (usually separate)
- Manuals
 - Communicator (also available at docs.hp.com and on CD-ROM)
 - Software Maintenance Manual (also available at docs.hp.com and on CD-ROM)
- Misc. Notes

Update Package Contents - II

- Documentation CDs
 - 5.5 LaserROM 50726-10318
 - 6.0 Instant Information 50726-10351
 - 6.5 Instant Information 50726-10400
 - 6.5 PDF Doc. Collection 50726-10401
 - 7.0 Instant Information 50726-10415
 - 7.0 PDF Doc. Collection 50726-10416
 - 7.5 Instant Information 50726-10449
 - 7.5 PDF Doc. Collection 50726-10450

Update Process - I

- Create an Update Book (probably checklist G)
- Verify Tapes
 - VSTORE (FOS SUBSYS and PowerPatch)
 - CHECKSLT.MPEXL.TELESUP (SLT)
 - Check product list for SUBSYS tape against contract
- Disc Space
 - 180,000 Sectors Contiguous on LDEV 1 (build axldev1.pub.sys;disc=180000,1,1;dev=1)
 - 800,000 Sectors additional in System Volume Set (build axlspace.pub.sys;disc=800000,32,32 purge axlspace.pub.sys)

Update Process - II

- Do a Dry Run
- Time needed for the update
 - Preliminary: Allow 2 hours preparation time
 - Actual downtime: 4-6 hours, depending upon system type, memory, tape subsystem, etc.
- Make sure you have a VERIFIED full backup and SLT
- "Failure to Prepare is Preparing to Fail" John Wooden
- When done, you will have a new HPSWINFO.PUB.SYS that will record what you have done.

Notes for MPE/iX 6.5

- Code supporting HP-IB and HP-FL devices removed
- CIO Based Systems NOT supported
 - 925/935/949 family
 - 920/922/932/948/958 family
 - 950/955/960/980 family
- 128 MB minimum memory recommended for performance
- SCSI PSEUDO devices needed
- Pre-5.5 must go to 5.5 or 6.0 first (i.e. multi-step process)
- Use PDF or hard copy version of software maintenance manual only – do not use Instant Information version

Notes for MPE/iX 7.0

- 6.5 notes plus
- 9x7 family of systems will not boot (does not include 997 systems)
- Base release contained only basic functionality for A/N-class systems (make sure you have at least Express 1
- 6250 BPI release tapes discontinued
- Pre-6.0 MUST go to 6.0 or 6.5 first (i.e. a multi-step process)

Notes for MPE/iX 7.5

- 7.0 notes plus
- Native Fiber Channel support for A/N-class systems
- Ability to access space beyond 4GB on LDEV 1
- WebWise v.2 part of FOS
- Sendmail part of FOS
- New CI Command: Shutdown, Restart

What is a patch and what is patch management?

Types: bug fix and minor enhancement How to read a patch name (e.g. TIXMXC3B) •1st three letters => subsystem •4th and 5th characters internal to HP •6th and 7th characters are sequence numbers •8th character is the patch version patch components •object code •documentation •install jobs (I-files) <-- this is what keeps some patches from being stageable

Terms and Definitions

Reactive patch PowerPatch FOS SUBSYS SLT CSLT Patch/iX Stage/iX

Patch Relationships

Superceding patches Patch-to-patch dependencies Patch Conflicts



Dependency SCO: None

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ORGFILE	TARGFILE	PATCH TYPE
TIXMXC3B.TIXMXC3B.PATCHIX		
AUTOPAT.HP31900A.PATCHXL		
GENMXC3B.TIXMXC3B.PATCHIX		
REFMXC3B.TIXMXC3B.PATCHIX		
U21MXC3B.TIXMXC3B.PATCHIX	TIMAGE	
U22MXC3B.TIXMXC3B.PATCHIX	CORONA2	
RO1MXC3B.TIXMXC3B.PATCHIX	HP30391 01	RP
RO4MXC3B.TIXMXC3B.PATCHIX	HP30391 04	RP
RO3MXC3B.TIXMXC3B.PATCHIX	HP30391_03	RP
COOMXC3B.TIXMXC3B.PATCHIX	IMAGECAT. PUB. SYS	RP
CO2MXC3B.TIXMXC3B.PATCHIX	TICATOOO.PUB.SYS	RP
POOMXC3B.TIXMXC3B.PATCHIX	UTIINIT. TI. TELESUP	RP
PO1MXC3B.TIXMXC3B.PATCHIX	MXTI0308.TI.TELESUP	RP
PO2MXC3B.TIXMXC3B.PATCHIX	UTIINIT1. TI. TELESUP	RP
P32MXC3B.TIXMXC3B.PATCHIX	DBRESTOR. PUB. SYS	RP
P36MXC3B.TIXMXC3B.PATCHIX	DBRCVCM. PUB. SYS	RP
P60MXC3B.TIXMXC3B.PATCHIX	DBDRIVCM. PUB. SYS	RP
P61MXC3B.TIXMXC3B.PATCHIX	DBDUMP.PUB.SYS	RP
P62MXC3B.TIXMXC3B.PATCHIX	I7DBSCNV. PUB. SYS	RP
P63MXC3B.TIXMXC3B.PATCHIX	DBCONV. PUB. SYS	RP
P64MXC3B.TIXMXC3B.PATCHIX	DBUTILB. PUB. SYS	RP
P65MXC3B.TIXMXC3B.PATCHIX	DBDRIVER. PUB. SYS	RP
P24MXC3B.TIXMXC3B.PATCHIX	SYTIO308.TI.TELESUP	RP
PO5MXC3B.TIXMXC3B.PATCHIX	IMAGEDMP. PUB. SYS	RP
P31MXC3B.TIXMXC3B.PATCHIX	DESTORE. PUB. SYS	RP
P34MXC3B.TIXMXC3B.PATCHIX	DBLOAD. PUB. SYS	RP
P33MXC3B.TIXMXC3B.PATCHIX	DBUNLOAD. PUB. SYS	RP
P30MXC3B.TIXMXC3B.PATCHIX	DBSCHEMA. PUB. SYS	RP
P35MXC3B.TIXMXC3B.PATCHIX	DBUTIL. PUB. SYS	RP
P68MXC3B.TIXMXC3B.PATCHIX	DBBIGSET. PUB. SYS	AD
P37MXC3B.TIXMXC3B.PATCHIX	DBRECOV. PUB. SYS	RP

Patch Package Size: 32752 sectors

General Release Text: Known Conflicts -----Not applicable Patch-to-Patch Dependencies ------Not applicable External Symptoms, Cause, Fix Description JAGae31115 8606-266870 _____ Symptoms -----MDX on automatic master doesn't work in Autodefer enabled Cause ____ The parameter passed to expansion procedure used the detail dataset number instead of the master dataset number. Fix ____ Set the right value before passing the parameter. JAGae21532 8606-257226 -----DBRECOV doesn't check all timestamps for multi db/multi quiesce logs JAGae32855 8606-268617 -----SA775 caused by a corrupted database. JAGae47954 8606-284008 _____

```
Symptoms
_____
GB file still exist even no accessor for the database.
Cause
-----
A previous fix, attemp to clean up DBU entry in DBUX, will corrupt the
DBUX tag if user open databases more than 127 times. That causes
process termination routine not able to close all the opened DB,
therefore, the GB file is left around.
Fix
____
Check whether the DBU entry exist or not.
Customer Environment Changes
------
Not Applicable
Hardware Dependencies
------
Not applicable
Software Product/Application Dependencies
Patch applies to MPE/iX 6.0, 6.5, 7.0
Product Version Information
------
TurboImage/iX version C.09.11.
See filename information for specific version changes for each module.
Dump Analysis
-----
```

Not applicable

Product Number/Name: HP30391 TURBOIMAGE/IX

Product VUF: C.09.11

OS Release VUF: C.65.00

Fix Release Version: B

Supersedes:

(0)	TIXMXC3 B
(1)	TIXMX73 B
(2)	TIXMX63 B
¢	3)	TIXMX31 B
(4)	TIXMX12 B
(5)	TIXLXW6 B
(6)	TIXLXL4 A
¢	7)	TIXLXH2 C
(8)	TIXLXE5 A
(9)	TIXLXB5 A
(10)	TIXLX74 C

Criticality:

Non-critical

Distribution Recommendation:

For a Subsystem and should be installed on all systems with this subsystem.

Update Required: Yes

Special Instructions:

NO SPECIAL INSTRUCTIONS PROVIDED FOR THIS PATCH

Installation Instructions:

Before installing this patch, please review all instructions and the Hewlett-Packard SupportLine User Guide or Your Hewlett-Packard Support Terms and Conditions for precautions, scope of license, restrictions, and limitation of liability and warranties.

There is a document which gives a detailed descripton of all tasks required prior to installing your patch. Request this document from HPSL using e-mail (command: send mpeguide) or download it from the web

Unless there are special instructions, logon as MANAGER.SYS and run UNPACKP to unpackage and restore all files before installing your patch.

Note! Please back up your system before you patch.

top of page

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How do I know what patches and software are installed?

- HPSWINFO.PUB.SYS (see handout)
- User Version v.uu.ff in SHOWME (sort of)
- :xeq psirpt.pred.sys (see handout)

<SASHA: ,MANAGER.SYS,INSTALL> WED, MAR 12, 2003 11:58 PM </SYS/INSTALL>
[8]:showme
USER: #S116,MANAGER.SYS,INSTALL (NOT IN BREAK)
RELEASE: C.65.00 MPE/iX HP31900 C.25.06 USER VERSION: C.65.03
CURRENT: WED, MAR 12, 2003, 11:58 PM
LOGON: WED, MAR 12, 2003, 11:40 PM
CPU SECONDS: 28 CONNECT MINUTES: 18
\$STDIN LDEV: 3 \$STDLIST LDEV: 3

How do I obtain patches?

- On tape from the RC (PowerPatches and Reactive Patches)
- Download from the Internet (Reactive Patches)
 - Search for patches via the ITRC
 - Search the patch database directly
 - Download to the PC, then upload to the 3K
 - Download to the 3k directly
 - UNPACKP (see handout)
 - Patchman (see handout for a patchman run example)

Main Patch Database



IT resource center → search → online help → contact hp →hp-ux → IT resource center home → my profile → logout software → maintenance and → mpe/iX support → technical knowledge base → support info by product ⇒ knowledge trees individual patches ⇒ more... → forums → training and education ⇒ site map archived patches Welcome, John P. Burke! (CA55893)

patch main menu

retrieve a single patch by entering the patch name (e.g. PHCO_12345 or 12345)

 \rightarrow

available hp 9000 patches for the series 800 and 700

→tru64 UNIX

available patches for Tru64 UNIX systems, including systems running TruCluster and AlphaServerSC

available mpe/iX patches

→ firmware

available patches for cpu, disk, tape, network, fibre channel, and i/o firmware

→ patches for applications on other platforms

patches for hp applications on NT, Solaris, SUNOS and other operating systems

➔ find patches for unsupported operating systems

view selected patch list •

useful links

- → itanium-based products
- → bluestone patches
- → toptools patches
- openview patches
- ⇒ hp/dazel output management software patches

what's new

- ⇒ patch database has been improved
- → faster patch downloads for asia pacific

tools

Iarge font (Netscape) 4.7x on UX)

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Patch Database



IT resource center

→ IT resource center

→ search

home

→ logout

→ my profile

→ online help

→ contact hp

search for patches

The MPE/IX patch download process has changed as of Release 5.5. It is crucial that you download and use the new UNPACKP command file before attempting to install a patch from this site. Refer to the MPE Patch Installation and Tools Guide for instructions.

step 1: select os revision c.75.00 -

step 2: how would you like to search?

Search by Keyword 💌

step 3: search criteria all words

step 4: results per page 25 - SEARCH

-

printable version

- patch main menu •
- view selected patch list ->

useful links

- → patch warnings replace recalls
- → installing your Patch Download package on MPE

support → technical knowledge

→ maintenance and

- base
- → support info by product
- → knowledge trees individual patches
- → more...
- → forums
- → training and education

→ site map

For general help in using Patch Database, read our Usage Guide.



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patch installation tools

Once a patch has been downloaded and unpacked, two installation tools are available for installing it: AUTOPAT and HP Patch/iX. Hewlett-Packard recommends the use of HP Patch/iX for patch installation, since it has many features and checks to ease and improve the installation process, including:

- · A sophisticated patch qualification mechanism to insure the integrity of your system.
- The ability to perform much of the patch installation process while the system is still up and available to users.
- An option to install a patch or set of patches using the HP Stage/iX subsystem, which allows the application of a patch to be performed without tapes. For more information on Stage/iX, refer to the System Software Maintenance Manual for your release.

You should use AUTOPAT only if you are familiar with its use, and have a good understanding of MPE/iX patch management.

To insure you have the latest version of Patch/iX, do the following:

1. :HELLO MANAGER.SYS, INSTALL

2. :PATCHIX VERSION

 Compare this version number (for example, B.01.02) with the latest version available for your release on the HP IT Resource Center <u>Patch/iX download</u> page. If you are running an earlier version than is available, you should download and install the newer one from the download page.

create a cslt

Before starting any patch application activity, you should *always* back up your system by creating a Custom System Load Tape *and* a full backup. This will allow you the flexibility of restoring your system to the previous environment. To create a CSLT, do the following:

- 1. Log on as MANAGER.SYS
- 2. :SYSGEN
- 3. >TAPE

disclaimer

Caution: Hewlett-Packard is not liable for errors occurring during data transmission through the Internet. HP assumes no responsibility for the use or reliability of its software on equipment that it has not furnished itself. Furthermore, for customers without a current support contract with HP, HP is not responsible for answering any questions in regard to the use of this patch delivery process.

installation steps

Use the following steps to download, unpack, and install a patch on your HP3000 system. Each steps is documented in detail below.

- 1. Obtain UNPACKP
- 2. Download the patch
- 3. Use UNPACKP to unpack the patch files
- 4. Use Patch/iX or AUTOPAT to install the patch

obtaining unpackp

Perform the following steps if you don't already have UNPACKP.INSTALL.SYS on your HP3000 system. You may use either Method A or B. Note that UNPACK is a bytestream file.

method a: anonymous ftp from your hp3000

You can use the following steps to download UNPACKP directly to your HP3000 from the HP IT Resource Center anonymous ftp site if your HP3000 system has internet access.

From INSTALL.SYS:

```
:ftp.arpa.sys ftp.itrc.hp.com
...
Name(manager): anonymous
331 Guest login ok, send your complete e-mail address as password.
Password: <your e-mail address>
ftp> cd export/bin
ftp> type bytestream
ftp> get unpackp UNPACKP
...
226 Transfer complete.
ftp> bye
```

method b: download to a pc or unix workstation

- Download the <u>UNPACKP command file</u> with your Web browser to your PC or Unix workstation.
- 2. Use ftp to copy UNPACKP to your HP3000 system:

PC to HP3000

- 1. Open an MS-DOS or Command Prompt window on your PC.
- Follow the steps in the example below. This example assumes that the file is named C:\DATA\UNPACKP, and that <hostname> is the hostname of your HP3000.

```
C:\WINDOWS> cd \DATA
C:\DATA> ftp <hostname>
...
Username: manager.sys,install
331 Password required for MANAGER.SYS,INSTALL. Syntax: userpass,acctpass
Password: <your passwords>
230 User logged on
ftp:> type tenex
200 Type set to L (byte size 8)
ftp:> put UNPACKP ./UNPACKP
...
226 Transfer complete.
ftp:> quit
```

hp3000 to pc/unix workstation

Alternatively, you may want to transfer the file by running FTP on your HP3000 host, which requires your PC/workstation to have an active FTP server. To run FTP from the HP3000 host, first make sure you're logged on as MANAGER.SYS,INSTALL. The following is an example of a transfer from a Unix system. It assumes that the filename on the Unix system is /tmp/unpackp, and that <hostname> is the hostname of the Unix system.

```
:ftp.arpa.sys <hostname>
...
Name(manager): <your login>
Password: <your password>
...
ftp> cd /tmp
250 CWD command successful.
ftp> type bytestream
200 Type set to I.
ftp> get unpackp UNPACKP
...
226 Transfer complete.
ftp> bye
```

obtaining a patch

You may use either Method A or B to transfer a patch to your HP3000 system.

method A: anonymous ftp from your hp3000

You can use the following steps to download the patch directly to your HP3000 from the HP IT Resource Center anonymous ftp site if your HP3000 system has internet access.

From INSTALL.SYS:

```
:ftp.arpa.sys ftp.itrc.hp.com
...
Name(manager): anonymous
331 Guest login ok, send your complete e-mail address as password.
Password: <your e-mail address>
ftp> cd mpe-ix_patches/c.60.00
ftp> type byte
ftp> get MPEJX87A
...
226 Transfer complete.
ftp> bye
```

method B: download to a pc or unix workstation

- 1. Download the patch file with your Web browser to your PC or Unix workstation.
- 2. Use ftp to copy the patch to your HP3000 system:

pc to hp3000

- 1. Open an MS-DOS or Command Prompt window on your PC.
- Follow the steps in the example below. This example assumes that the patch file is named C:\DATA\MPEJX87A, and that <hostname> is the hostname of your HP3000.

```
C:\WINDOWS> cd \DATA
C:\DATA> ftp <hostname>
...
Username: manager.sys,install
331 Password required for MANAGER.SYS,INSTALL. Syntax: userpass,acctpass
Password: <your passwords>
230 User logged on
ftp:> type tenex
200 Type set to L (byte size 8)
ftp:> put MPEJX87A
...
226 Transfer complete.
ftp:> quit
```

hp3000 to pc/unix workstation

Alternatively, you may want to transfer the file by running FTP on your HP3000 host, which requires your PC/workstation to have an active FTP server. To run FTP from the HP3000 host, first make sure you're logged on as MANAGER.SYS,INSTALL. The following is an example of a transfer from a Unix system. It assumes that the filename on the Unix system is /tmp/unpackp, and that <hostname> is the hostname of the Unix system.

```
:ftp.arpa.sys <hostname>
...
Name(manager): <your login>
Password: <your password>
...
ftp> cd /tmp
250 CWD command successful.
```

ftp> type bytestream
200 Type set to I.
ftp> get MPEJX87A
...
226 Transfer complete.
ftp> bye

unpacking patches with unpackp

You will enter the UNPACKP command a bit differently depending on which patch installation tool you plan to use - HP Patch/iX or AUTOPAT. Hewlett-Packard recommends the use of HP Patch/iX for patch installation, since it has many features and checks to ease and improve the installation process. You should use AUTOPAT only if you are familiar with its use, and have a good understanding of MPE/iX patch management.

First make sure you are logged on as MANAGER.SYS,INSTALL. If you plan to use HP Patch/iX to install the patch, run UNPACKP as in the following example (substituting your patch ID):

UNPACKP MPEIX01A, PATCHIX

If you plan to use AUTOPAT to install the patch, run UNPACKP as in the following (again, substitute your patch ID):

UNPACKP MPEIX01A, AUTOPAT

On completion, UNPACKP will place all component patch files in the proper group and account, depending on the chosen patch tool. For HP Patch/iX, the files will be placed in the PATCHXL.SYS group; for AUTOPAT, they are placed in the PATCHXL.TELESUP group. If you are installing multiple patches, use UNPACKP once for each patch.

using the patch tools

Refer to either of the following documents for instructions on how to use HP Patch/iX to install downloaded patches:

- The System Software Maintenance Manual for your release This contains detailed instructions on the use of HP Patch/iX. If you do not have a hardcopy of this manual, you can download a copy from http://docs.hp.com under the MPE/iX Operating System section.
- The <u>Patch/iX Instructions</u> available from the HP IT Resource Center.

Patch/iX – What Is It?

- Introduced with MPE/iX 5.5 along with Stage/iX
- Greatest thing since sliced bread because it puts YOU in control of the patching process.
- Of course with greater control comes greater responsibility
- Typically cuts patching time in half and improves the reliability of the process
- If you've never used Patch/iX before, the the reference manual contained in the Appendices of the Software Maintenance Manual

Patch/iX Tips

- Don't run it from the console (Phase I)
- Use the current Patch/iX version (tape (no!) or Internet)
- Use the current UNPACKP version
- Create a "patch book" for each session from PDF guides
- Put HPGROUP in HPPATH
- Make sure you have enough space on LDEV 1
- ALTSEC @.patchxl;delacd depending upon how acquired
- If creating a CSLT tape do NOT use 60m tapes

Patch/iX Download Page - 1



Move the file "patchix60.store" to the SYS account machine.

Patch/iX Download Page - 2

Example: ftp> put patchix60.store ./patchix60.store

Note to ftp users: You should transfer the file using "byte" mode (as opposed to binary or ASCII).

ftp Method:

You can pull the file directly from the IT Resource Center's anonymous ftp site:

ftp.arpa.sys ftp.itrc.hp.com

Name(manager): anonymous 331 Guest login ok, send your complete e-mail address as password. Password: <your e-mail address> ftp> cd export/bin ftp> type bytestream ftp> get ./patchix[##].store ... 226 Transfer complete. ftp> bye

2. Make sure you are in the INSTALL group of the SYS account.

:CHGROUP INSTALL

Note: It is critical for these files to be restored to INSTALL.SYS.

3. Convert the file to MPE format using FROMBYTE, e.g.:

:FROMBYTE.HPBIN.SYS '-b ./patchix60.store PATCH60M'
Patch/iX Download Page - 3

4. Restore the file from disk:

:FILE PATCH60M;DEV=DISC

:RESTORE *PATCH60M;@.@.@;LOCAL;SHOW

5. You can verify your version of PATCHIX with the "version" option:

:PATCHIX VERSION

patch/ix file sets

The contents of the Patch/iX store-to-disk archive for 5.5 is:

ABLDINTX ALKEDCAT ALKEDHLP AUTOCM AUTOLED AUTOSPTH PATCH000 PATCHIX

The contents of the Patch/iX store-to-disk archive for 6.0, 6.5 and 7.0 is:

ABLDINTX ACSUMLED ACSUMCAT ACSUMHLP ALKEDCAT ALKEDHLP AUTOCM AUTOLED AUTOSPTH PATCH000 PATCHIX

Downloading Patch/iX - 1

<SASHA: ,MANAGER.SYS,INSTALL> WED, MAR 12, 2003 11:40 PM </SYS/INSTALL>
[1]:ftp ftp.itrc.hp.com
File Transfer Protocol [A0010H07] (C) Hewlett-Packard Co. 2000 [PASSIVE SUPPORT]

220-

220-Welcome to the IT Resource Center ftp server 220-----220 -220-You are user 8, and there is a limit of 400 simultaneous accesses. 220 -220-Log in as user "anonymous" (using your e-mail address as your password) 220-to retrieve available patches for HP-UX, MPE/iX, and other platforms. 220 -220-If you are a user of other HP ITRC services, log in with your 220-HP ITRC User ID and password to deposit or retrieve your files. 220 -220-If you have questions, send email to: 220 -220support_feedback@us-ffs.external.hp.com 220 -220 dux418 FTP server (HP ASL ftpd, version(322)) ready. Connected to ftp.itrc.hp.com (192.6.165.75). (FTPINFO 40) Name(manager): anonymous 331 Guest login ok, send your complete e-mail address as password. Password: 230 Guest login ok, access restrictions apply. Remote system type is UNIX ftp> cd export/bin 250 CWD command successful. ftp> type bytestream 200 Type set to L (byte size 8).

Downloading Patch/iX - 2

RESTORE *patch65;@.@.@;LOCAL;SHOW

WED, MAR 12, 2003, 11:43 PM

Downloading Patch/iX - 3

WILL RESTORE

12 FILES

; NUMBER OF FILES ON MEDIA

12

FILENAME GROUP	ACCOUNT	VOLUME RESTRICTIONS		SECTORS	CODE	MEDIA
ABLDINTX.INSTALL	.SYS	DISC	:C	352	NMPRG	1
ACSUMCAT.INSTALL	.SYS	DISC	:C	128		1
ACSUMHLP.INSTALL	.SYS	DISC	:C	1408		1
ACSUMLED.INSTALL	.SYS	DISC	:C	2960	NMPRG	1
ALKEDCAT . INSTALL	.SYS	DISC	:C	144		1
ALKEDHLP.INSTALL	.SYS	DISC	:C	1456		1
ANTSLOPT . INSTALL	.SYS	DISC	:C	16		1
AUTOCM .INSTALL	.SYS	DISC	:C	48	PROG	1
AUTOLED .INSTALL	.SYS	DISC	:C	2976	NMPRG	1
AUTOSPTH.INSTALL	.SYS	DISC	:C	432	NMPRG	1
PATCH000.INSTALL	.SYS	DISC	:C	1024	MGCAT	1
PATCHIX .INSTALL	.SYS	DISC	:C	8880	NMPRG	1

FILES RESTORED :

12

<SASHA: ,MANAGER.SYS,INSTALL> WED, MAR 12, 2003 11:44 PM </SYS/INSTALL>
[5]:patchix version
Patch/iX Version B.01.09
<SASHA: ,MANAGER.SYS,INSTALL> WED, MAR 12, 2003 11:44 PM </SYS/INSTALL>
[6]:

Netbase/Shareplex Issues

- Patch/iX
- Stage/iX

Patch/iX example: MPE/iX 6.0 PowerPatch 2 applied to an existing MPE/iX 6.0 PowerPatch 1 system

Run Patch/iX



Sign on as "MANAGER.SYS,INSTALL". Before proceeding, make sure you have the latest version of Patch/iX for your system and that you have validated all tapes. Your PowerPatch or Reactive patch tape will have an appropriate version of Patch/iX or you can download the latest from the ITRC. Patch/iX can be run from any terminal or PC with termulator. Do not run it from the console.

Identify this run of Patch/iX

🙀 gilg.r1w - Reflection for HP		
<u>File Edit Connection Setup Ma</u>	cr <u>o</u> Scri <u>p</u> t <u>W</u> indow <u>H</u> elp	
🛛 🗣 🍪 🙆 🕩 🛍 🕖 .	• • • ▲ ▲ ↓ ♥	
Main Menu	HP Patch/iX	*
ACTION		STATUS
+	Prompt Window	+
	HP Patch/iX - B.01.04 (C) Heulett-Packard CO.	
l Please Enter V l	our Name: John Burke_	
i •		
+	Message Hindou	
L +		
13, 43 HP70092 17	2.24.64.41 via VT-MGR	Num

Enter your name here to identify this run of Patch/iX.

Main Menu - Select Activities

ngilg.r1w - Reflection for HP		
<u>File Edit Connection Setup M</u>	acr <u>o</u> Scri <u>p</u> t <u>W</u> indow <u>H</u> elp	
] 🗣 🏟 🎒 🛍 🛍 🖸	• • • ▲ ▲ ▲ ▶?	
Main Menu	HP Patch/iX	2
ACTION		STATUS
Vieu Patches Qualify Patches Create [Stage] [Ta Exit HP Patch/iX)e]	
+	Nessage Hindor	<u></u>
I Nessage: Ihis item perform and d 	allous you to select the f) some general preparation	type of patch installation to specific to those activities.
Help		Exit
8,1 HP70092 1	72.24.64.41 via VT-MGR	Num

This is where you tell Patch/iX what you want to do. Hit RETURN to select this menu item.

Select Activity

🙀 gilg.r1w - Reflection for HP	_ 🗆 ×
Eile Edit Connection Setup Macro Script Window Help	Constant (
] • • • • • • • • • • • • • • • • • • •	
Main Menu HP Patch/iX Select Activities	*
Mark Activity	
>X] Adding a PouerPatch	•
[] Adding Reactive Patches From Tapes	
[] Adding Reactive Patches From Dounload	
[] Adding (SUBSYS) Products	
	-
+ <u>Nessage Windou</u>	•
I nessage: nark this item if you have a powerpatch to apply.	
i i	
+	
Help Undo Process Previous Henu	
1 46 HP70092 172 24 64 41 via VT-MGP	

Press F2 to "mark" "Adding a PowerPatch" and then press F4 to process the list of activities. Note that you can apply a PowerPatch, add reactive patches and add SUBSYS products in one step. For now, SUBSYS products can not be staged and all PowerPatches to date have contained patches that can not be staged.

Accept default setup?

AP gilg.r1w	- Refle	ction for	HP						
<u>File</u> <u>E</u> dit	<u>C</u> onnecti	on Se <u>t</u> up	o Macr	o Script	<u>W</u> indow	Help			
🗣 🏟	9	h 🔒			≝ ≰	1	₩?		
Ma Mark	in Men Select	u Activi ivity	ties		HP	Patch	/iX		
==== >[¥		ina o D	====== ouorDa	tch					
[]+	ing a r			Prompt	Windo	u		+
[] HP y a Do 	Patch/i ou or y re to b you uis	X can ou can e perf h to a	perfori choose formed. accept f	the de to cus the defa	fault tomiz ults?	setup operations e uhat setup oper (y/n)	for ations	
 					<u>Yess</u>	age H	indou		
14, 49		HP7009	2 172.2	24.64.41 \	ia VT-MGF	1			um []

Generally speaking, you can say "yes" if you are just applying a PowerPatch. There will be more discussion on this in the section of the presentation on using Patch/iX and Stage/iX to apply a Reactive Patch.

Specify the location of PowerPatch tape

🟚 gilg.r1w - Reflection for HP	
<u>Eile E</u> dit <u>C</u> onnection Setup Macr <u>o</u> Scri <u>p</u> t <u>W</u> indow <u>H</u> elp	
Main Menu HP Patch/iX Select Activities Customize Activities	
Mark Activity	Status
[X] Purge unneeded files in INSTALL.SYS Group.	Completed
<pre>[] Please Mount the PowerPatch Tape. [] [] What LDEV is the PowerPatch Tape Mounted On? [] >[X] [X] </pre>	-
<u>Message Windou</u>	
12, 58 HP70092 172.24.64.41 via VT-MGR	Num

If you have the good fortune to have multiple tape drives, put the PowerPatch tape in a drive other than the boot tape drive. This will save you some time. Always put the tape you are going to use for the CSLT in the boot drive. Why?

Is the tape online?

gilg.r1w - Reflection for HP	
ne to connection setup Macro script window Help	hannan an
Main Menu HP Patch/iX Select Activities Customize Activities	
Mark Activity	Status
[X] Purge unneeded files in INSTALL.SYS Group.	Completed
[] >[x] [x] +	
Yessage Hindou	+ I

Patch/iX will put the tape online for you if it is not already online.

Performing the setup activities

🙀 gilg.r1w - Reflection for HP	
<u>File Edit Connection Setup Macro Script Window Help</u>	
]••••\$\$ 5 h 6 17 to <u>% 4 1 k</u> ?	
Main Menu HP Patch/iX Select Activities Customize Activities	<u>A</u>
Mark Activity	Status
 [X] Purge unneeded files in INSTALL.SYS Group. [] Purge all files in PATCHXL.SYS Group. [] Purge all files in USL.SYS Group. [] Purge all files in UNL.SYS Group. [] Purge all files in UNL.SYS Group. [] Restore files from reactive patch tape. [] Restore Product (SUBSYS) information files. [X] Restore PowerPatch information files. [X] Copy System Libraries. 	Completed Not Needed Not Needed Not Needed Not Needed Not Needed Not Needed
. Massage III salau	
Restoring PowerPatch information Files from tape in LI <)EV: 9
20, 48 HP70092 172.24.64.41 via VT-MGR	

This step should take only a few minutes depending upon the number of information files on the PowerPatch tape and the speed of the system in copying system libraries. 50

Main Menu - View Patches

Image: Seige Marce Script Window Help Imain Menu Imain Menu Imain Menu ACTION Select Activities PowerPatch Only View Patches Qualify Patches Create [Stage] [Tape] Exit HP Patch/iX Image: This item allows you to view patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.	gilg.r1w - Reflection for HP		
Main Menu ACTION Select Activities PowerPatch Only View Patches Qualify Patches Create [Stage] [Tape] Exit HP Patch/iX Message: This item allous you to view patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.	ile <u>E</u> dit <u>C</u> onnection Setup Macr <u>o</u> Scri <u>p</u> t <u>W</u> ind	dow <u>H</u> elp	- Herei
Main Menu Patch/iX ACTION STATUS Select Activities PowerPatch Only > View Patches Create [Stage] [Tape] Exit HP Patch/iX Essage Hindon Message: This item allows you to view patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.	••• 🚳 🕒 🛍 🖀 🚣 .	<u>≰</u> <u>1</u> №	
ACTION STATUS Select Activities PowerPatch Only > View Patches PowerPatch Only Qualify Patches Create [Stage] [Tape] Exit HP Patch/iX Exit HP Patch/iX Message: This item allows you to view patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.	Main Menu	HP Patch/iX	4
Select Activities PowerPatch Only View Patches Qualify Patches Create [Stage] [Tape] Exit HP Patch/iX Message Inis item allows you to view patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.	ACTION	STATUS	
View Patches Qualify Patches Create [Stage] [Tape] Exit HP Patch/iX Message Windou Message: This item allows you to view patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.	Select Activities	PowerPatch Anly	
Exit HP Patch/iX Message: This item allous you to vieu patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.	> View Patches Qualify Patches Create [Stage] [Tape]		
Message: This item allous you to vieu patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.	Exit HP Patch/iX		
 Message: This item allows you to view patches previously installed on the system by HP Patch/iX, and those available to be installed on the system. 			
Message: This item allous you to vieu patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.			
Hessage: This item allows you to view patches previously installed on the system by HP Patch/iX, and those available to be installed on the system.			
I Message: This item allous you to vieu patches previously installed on the I system by HP Patch/iX, and those available to be installed on the I system. I +	<u>+1</u>	lessage Hindou	
	l Message: This item allous you to l system by HP Patch/iX, and l system.	o vieu patches previously installed on the l those available to be installed on the l l	
Heln Fyit	Heln	Evit	
9.1 HP70092 172.24.64.41 via VT-MGB	9 1 HP70092 172 24 64 41 via VT-	-MGB	-

This is optional. It basically shows the contents of HPSWINFO.PUB.SYS. Better to have a printout of HPSWINFO instead to refer to if needed. 51

Example of View Patches

gilg.r1w - Reflec	tion for HP						- 0
<u>Edit</u> <u>C</u> onnection	n Se <u>t</u> up Mac	r <u>o</u> Scri <u>p</u> t <u>W</u> indo	w <u>H</u> elp				
•• 🚳 🗿 🗉	1 🛍 🕖	•∎ •∎ 🚣 ∡	🖌 💵 🖌	?			
Main Menu Vieu Pa	tches	Π	P Patch/il	3 Fi	lter(1) =	Installed Patches	
Patch ID	Origin	Date			Installe	d By	
>ATCKXP2C	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	john		
BBRKXT2B	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	john		
BRHKXF3B	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	john		
BHRKXG7B	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	john		
DTSFDF5A	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	j ohn		
INFKXH6B	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	john		
LNKKXQ9B	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	john		
MPEKXF7C	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	j ohn		
MPEKXHOE	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	j ohn		
MPEKXN1C	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	john		
MPEKXP4A	C6001 P	SAT, JAN 22	, 2000, 🔅	3:10 PM	john		
						+dn	
•		<u>ile</u>	ssage Wind	dou		+	
Descriptio Big perfo	on: rmance deora	adation when	user upda	te IMAGE	/SOL to G	 2 version.	
+							
Help			P	revious ilter	Next Filter	Previous Menu	
71	HP70092 172	24 64 41 via VT-M	GB			Num	

This is showing the MPE/iX PowerPatch 1 patches that were applied to this system on January 22, 2000. Make a note of ATCKXP2C for later. 52

Main Menu - Qualify Patches

🙀 gilg.r1w - Reflection for HP		
<u>File Edit Connection Setup Mac</u>	ro Script <u>W</u> indow <u>H</u> elp	Contraction of the second s
] 🗣 🊳 🍯 🖣 🛍 Ď	••••••••••••••••••••••••••••••••••••••	
Main Menu	HP Patch/iX	*
ACTION	STATUS	
Select Activities	PouerPatch Only	
Vieu Patches > Qualify Patches		
Create [Stage] [Tape]	
EXIT HP Patch/1A		
	Massage III was	
Message: Selection o	f this item uill start qualification of the	set of
l patches, and al	lou you to customize the set of patches.	1
·		
Help		Exit
10, 1 HP70092 - 172	.24.64.41 via VT-MGR	Num //

This is the crucial step where you, in concert with Patch/iX, choose which patches contained in the PowerPatch bundle will actually be applied. 53

Ready to proceed with the qualification?

gilg.r1w - Reflection for HP	
le <u>E</u> dit <u>C</u> onnection Setup Macr <u>o</u> Scri <u>p</u> t <u>W</u> indow <u>H</u> elp	
-0	
Main Menu HP Patch/iX Qualify Patches Filter(1) = All	
Patch ID Qualified Status Flags Tape Stage Origin	
<pre>[] APPFDC9A ??? GR F,N PouerPatch:Cl [] +Prompt Windou [] [] HP Patch/iX needs to do an initial full qualification step [] on the set of patches that includes a one-time checksumming of [] system components. All subsequent qualifications after this uill [] take only moments to perform. To do full qualification on these [] 57 patches, uill take approximately 06:11 (min:sec). [] [] Are you ready to begin this full qualification?(y/n) _ [] +</pre>	====== 6002 P 102 P =====+dn
Message Windou	
16, 66 HP70092 172.24.64.41 via VT-MGR Num	1

Patch/iX graciously estimates for you the amount of time qualification will take. Go get a cup of coffee once it starts the qualification step. 54

Install FOS enhancements?

gilg.r1w - Reflection for HP			
e <u>E</u> dit <u>C</u> onnection Se <u>t</u> up Macr	o Script <u>W</u> indow <u>H</u> elp		
🗣 🏟 🍯 👘 🛍 🖸 🕨	ቘ 🗟 🚣 🚣 📭		
Main Menu Qualify Patches	HP Patch/iX	Filter(1) = All	
Patch ID Qualifie	d Status Flags Tape	stage Origin	
[] APPFDC9A ???	GR F.N	PouerPatch:(:====== :6002 P
[] + [] [] This PouerPatch [] The default for [] [] [] Hould you like t [] [] [] [] +	<u>Prompt Windou</u> tape contains FOS enhan Patch/iX is not to inst hem to be installed (Y/	cements as uell as fixes. all these enhancements. N) ? _	+02 P 02 P +02 P =====+dn
	Message Windo		
13, 52 HP70092 172.3	24.64.41 via VT-MGR	Num	

But first, one more question. The primary reason you might not want to install a FOS enhancement is if it would cause some job, script or program to break and for some reason you can not fix the job, script or program. The Communicator for the PowerPatch will describe any FOS enhancements.

Patch Qualification Process Screen

<u>Edit</u> <u>Connection</u> Setup Macro Script	<u>₩</u> indow <u>H</u> elp		
🗠 🖨 🖪 🛍 🕖 🖥 🐿	<u>∡∡</u> <u>⊾</u> №?		
Main Menu Qualify Patches	HP Patch/iX	Filter(1) = All	
Patch ID Qualified St	atus Flags Tape	Stage Origin	
[] APPFDC9A ??? GR	F,N	PouerPatch:	C6002 P
[] + [] PouerPatch Patch Q [] PouerPatch Patches: [] Reactive Patches: [] [] [] []	ualification in Prog 57 Estimate 0 Elapsed	ress d Time: 06:11 Time: 00:26	+02 P 102 P 102 P 102 P 102 P 102 P 102 P 102 P 102 P 102 P +02 P
+	Message Hindou		+
Message: HP Patch/iX is nou and files. <	checksuming your sys	tem libraries >	}

Now go get that cup of coffee.

Qualify Individual Patches Screen

ilg.r1w - Reflection for HP Edit Connection Setup Macro	Script Windo	w Help			
	°⊞ <u>∡</u>	<u> </u>	k ?		
Main Menu Qualify Patches	I	P Patc	MiX Fi	lter(1)	= AII
Patch ID Qualified	Status	Flags	Tape	Stage	Origin
>LI APPEULSA NO	CH OD	F, N	LSL1/Store	Yes	PoverPatch L6002 P
[] НКПКАНЭС YES [] АТСКУРЭС: Ис	6K CD	E,N	Store-Unly	NO	PowerPatch:L6002 P
[] HILKAPZL* NO [] DDDVYUJD II.co	UK CD	E,N	CSLT/Store	Yes	PowerPatch:L6002 P
[] DDKNAU/D YES [] DDNIV91P No	UK CD	H,N C N		Yes	PowerPatch:C6002 P
[] DRULAZID NU	OR CD	C, N	Store-Only	Yes	PowerPatch:CC002 P
[] BIIDKYY7R Ugo	CD	E,14	CSLT/Store	Uec	PowerPatch:C6002 P
[] DRDI X0/R No	CD	E,14	Storo_Onlu	Uec	PowerPatch:C6002 P
[] DIFENCED NO	CD	0.1	CSI T/Store	Voc	PowerPatch:C6002 P
[] FTPENH30 Vee	CR	0 N	Storo-Only	Vac	PowerPatch:C6002 P
[] GLALXOGB Yes	GB	F N	Store-Only	Yes	PowerPatch: C6002 P
+ Description: (Press <re<sup>+ APPC subsystem start eri +</re<sup>	turn> for tor 1034 d	ssage detail ue to	<u>Hindou</u> ed informati validation e	ion on p error -	atch APPFDC9A)
Help Veto Force	Process Changes		Previous Filter	Next Filter	Previous Menu

This is where you have to do some work. You need to check every patch that did not qualify and determine why it did not qualify. Occasionally, you may need to force a patch that does not qualify after consulting 57 documentation and/or your support provider. Let's investigate why this first patch did not qualify.

View(1) = Summary

😰 gilg.r1w - Ref	lection for H	IP					
<u>File E</u> dit <u>C</u> onne	ction Setup	Macro Script	<u>W</u> indow <u>H</u>	<u>H</u> elp			
	Ba 🛍	12 🖬 🖬	<u> </u>	L N?			
Main Me Quali APF	enu ify Patche PFDC9A	S	HP Pa	atch∕iX Vi	eu(1) = Sur	nmary	
QUALIFIC Disc	CATION STA Jualified	TUS: (missing c	omponents	- cannot be f	orced)		
PATCH IN Pato	ISTALLATIO :h has not	N STATUS: previously	been inst	talled by HP P	atch/iX.		
PATCH RE Qual	COMMENDAT	ION: duct (SUBSY	S) patch				
INSTALLA	TION METH	OD:					
						+dn	
+			Tessar	e Hindou			
l Message l l	e: The Com	ponent vieu	shous sur	nmary informat	ion about †	the patch. 	
Help	Previous Patch	Next Patch		Previous Vieu	Next Vieu	Previous Menu	
19, 1	HP70092	- 172.24.64.41	via VT-MGR		1	Num	

Note that the patch was disqualified because of a missing component and that it can not be forced. A clue as to what is missing is contained in the Patch Recommendation: "Qualified product (SUBSYS) patch". Let's l90k at View(5), Product Numbers.

View(5) = Product Numbers

ilg.r1w - R	eflection for	HP		107							
<u>E</u> dit <u>C</u> onr	nection Setup) Macr <u>o</u> Scri	i <u>p</u> t <u>W</u> indow	<u>H</u> elp							
Þ 🊳 🧧) 🖻 🛍	10 6	a <u> 4</u>	í 🔟 🕅							
Main Qua A Pr	1enu Lify Patcho PPFDC9A od Num Des	es cription	HP	Patch/iX	¥i	ieu(5) =	• Produc	:t Nu	umber	°S	
 H	P30294 LU 1	6.2 API/XL									
01FDC	3A . APPFDC9	A . PACHNHC	HP								
01FDC	3A . APPFDC91	A . PACHNMC	HP								-=
01FDC	3A . APPFDC9	A . PACHNMC	HP <u>1les</u> s	sage Windo	11						-=
01FDC Messa	3A.APPFDC9 Je: The Pro	A.PACHNHC	HP <u>iles</u> r vieu j	sage Hindo provides y	II rou a l	ist of	the pro		 ts		
01FDC I Messa I th	3A.APPFDC9 	A.PACHNHC oduct Numbe ected by th	HP <u>iles</u> er vieu j iis patch	sage Hindo provides y	11 rou a l	ist of	the pro				**
01FDC ====== + Messa th +	3A.APPFDC9 Je: The Pro at are affo	A.PACHNMC oduct Numbe ected by th	HP <u>1less</u> er vieu j is patch	sage Windo provides y	II Iou a l	ist of	the pro	oduc			
01FDC Messa th + Help	3A.APPFDC9 ge: The Pro at are affo Previous	A.PACHNHC oduct Numbe ected by th	HP <u>iles</u> er vieu j is patch	sage Windo provides y	u ou a l evious	ist of Next	the pro	oduc	ts Pre	evious	

This is a patch for LU 6.2 API/XL. The system being patched does not have this product installed (remember :xeq psirpt.pred.sys). Obviously, this patch should not qualify. Let's continue. 59

Qualify Individual Patches Screen

• 🏟 🖨 📭	🛍 🗁 📆	۹ 🚣	4 1	N?		
Main Menu		I	IP Patc	h/iX		
Quality Pa	atches			Fi	ter(1)	= All
Patch ID	Qualified	Status	Flags	Tape	Stage	Origin
[] ADDEDCOA	No	co	E N		Uoc	DoworDatch+C6003 D
	Vec	GR	E N	Store-Only	No	PowerPatch:C6002 P
>[] ATCKXP2C	* No	GR	EN	CSLT/Store	Yes	PowerPatch:C6002 P
[] BBRKXU7B	Yes	GR	A.N	CSLT/Store	Yes	PowerPatch:C6002 P
[] BROLX21B	No	GR	E,N	Store-Only	Yes	PowerPatch:C6002 P
[] BRAKXX6B	Yes	GR	E,N	Store-Only	Yes	PowerPatch:C6002 P
[] BARKXX7B	Yes	GR	E,N	CSLT/Store	Yes	PowerPatch:C6002 P
[] DBPLX04B	No	GR	E,N	Store-Only	Yes	PowerPatch:C6002 P
[] DTSFDG6A	Yes	GR	A,N	CSLT/Store	Yes	PowerPatch:C6002 P
[] FTPFDH3A	Yes	GR	A,N	Store-Only	Yes	PouerPatch:C6002 P
[] GLALX06B	Yes	GR	E,N	Store-Only	Yes	PouerPatch:C6002 P
+ Description Big performa	: (Press <ret ance degradat</ret 	urn> for ion uhen	ssage detail user u	Hindou ed informati pdate IMAGE,	ion on p /SQL to	atch ATCKXP2C) G2 version.
Help Veto	Force	Process Changes	5	Previous Filter	Next Filter	Previous Menu

The asterisk (*) indicates this patch is already installed. It should show up on your copy of HPSWINFO.PUB.SYS. It also was the first patch in the View Patches Screen. But let's look at View(1) anyway to be sure. Depress RETURN.

View(1) = Summary

gilg.r1w - Reflection for HP			
le <u>E</u> dit <u>C</u> onnection Seţup Macr <u>o</u> Scri <u>p</u> t <u>W</u> indow <u>H</u>	elp		
•••• ● ●	L N?		
Main Menu HP Pa Qualify Patches ATCKXP2C	tch∕iX Vi	eu(1) = Sumr	nary
QUALIFICATION STATUS: Disqualified (patch already insta			
PATCH INSTALLATION STATUS: Patch already installed on this sys	stem.		
PATCH RECOMMENDATION: Required product (SUBSYS) patch			
INSTALLATION METHOD:			
			+dn
+Yessaq	e Windou		
Message: The Component view shows sum 	mary informat	ion about th	ne patch. l l l
Help Previous Next Patch Patch	Previous Vieu	Next Vieu	Previous Menu
19, 1 HP70092 172.24.64.41 via VT-MGR			Num

There it is: "patch already installed". Remember, a PowerPatch is cumulative. It will contain every patch from all previous PowerPatches that has not been superceded. This system already had PowerPatch 1 installed and possibly some Reactive Patches.

Qualify Individual Patches Screen

		শিল্ল 📥 🚽	€ <u>↓</u>	R:		
Main Menu Qualify Pa	tches	1	IP Patc	h/iX Fil	ter(1)	= All
Patch ID	Qualified	Status	Flags	Tape	Stage	Origin
[] OPPENCGO	No	CR	F N	rsi T/store	Voc	PowerPatch·CGNN2 P
	Yes	GR	F.N	Store-Anlu	No	PowerPatch:C6002 P
>[] ATCKXP2C*	No	GR	EN	CSLT/Store	Yes	PowerPatch:C6002 P
[] BBRKXU7B	Yes	GR	A,N	CSLT/Store	Yes	PowerPatch:C6002 P
[] BROLX21B	No	GR	E,N	Store-Only	Yes	PouerPatch:C6002 P
[] BRAKXX6B	Yes	GR	E,N	Store-Only	Yes	PowerPatch:C6002 P
[] BARKXX7B	Yes	GR	E,N	CSLT/Store	Yes	PouerPatch:C6002 P
[] DBPLX04B	No	GR	E,N	Store-Only	Yes	PowerPatch:C6002 P
[] DTSFDG6A	Yes	GR	A,N	CSLT/Store	Yes	PouerPatch:C6002 P
[] FTPFDH3A	Yes	GR	A,N	Store-Only	Yes	PouerPatch:C6002 P
[] GLALX06B	Yes	GR	E,N	Store-Only	Yes	PouerPatch:C6002 P
+ Description: Big performa + Help Veto	(Press <ret nce degradat Force</ret 	urn> for ion uhen Process	essage detail user u	Hindou ed informati pdate IMAGE/ Previous	on on p 'SQL to Next	oatch ATCKXP2C) G2 version. Previous

Let's assume we've checked everything and depress F4 (Process Changes), then F8 (Previous Menu).

Process Qualified Patches

gilg.r1w - Reflection for HP	
e <u>E</u> dit <u>C</u> onnection Setup Macr <u>o</u> Scri <u>p</u> t <u>W</u> indow <u>H</u> elp	
⊕\$\$ 8 8 10 5 5 4 4 1 8	
Main Menu HP Patch/iX Qualify Patches Filter(1) = All	
Patch ID Qualified Status Flags Tape Stage Origin	
>[] APPFDC9A No GR F,N CSLT/Store Yes PouerPatcl	h:C6002 P
<pre>[] +Information Windou [] [] [] HP Patch/iX is updating the status information for each of [] the patches, and log information about the patches. [] [] [] [] [] [] [] [] </pre>	+02 P 02 P +02 P
Massaga Uindou	
Description: (Press <return> for detailed information on patch APPFD(APPC subsystem start error 1034 due to validation error - APPCVALERR2</return>	C9A) 23
11, 63 HP70092 172.24.64.41 via VT-MGR Nun	n [

This only takes a few moments. If you blink, you miss this screen.

Main Menu - Create Tape

🏚 gilg.r1 w - Reflection for HP			_ 🗆 ×
<u>File Edit Connection Setup M</u>	acr <u>o</u> Scri <u>p</u> t <u>W</u> indow <u>H</u> elp		
🛛 🗣 🍪 🖨 👘 🛍 🕖	🖥 🖫 🚣 🚣 📢		
Main Menu	HP Patch/iX		-
ACTION		STATUS	<u></u>
Select Activities		PouerPatch Only	
Vieu Patches Qualify Patches		27 Databas Qualified	
> Create [Tape]		J7 Fatches Qualifieu	
Exit HP Patch/iX			
•	Hessage Windou-		
Message: Selection based on the s 	of this action uill start t et of patches that uere qua	he creation of the tap lified for the system.	e l l
Help			Exit
11,1 HP70092 1	/2.24.64.41 via VT-MGR	Nur	n 📔 🗍 🖉

Ready now to create the CSLT. After a few setup questions, you'll be able to turn your attention to other tasks while the CSLT is created. 64

Create Tape Tasks

🟚 gilg.r1w - Reflection for HP		
File Edit Connection Setup Macro	Scri <u>p</u> t <u>W</u> indow <u>H</u> elp	
] 🗣 🍪 🍯 👘 🛍 🗇 🖷	5 🖫 <u>४ ४</u> 📭	
Main Menu Create [Tape]	HP Patch/iX	
Start Time Operation	Estimated	I Time Elapsed Time
Restore Pa Modifying Create A M Create the Create the t	tch Files .ibraries au Start PME Tape Stage <u>Nessage Windou</u> izing patch files.	
20, 48 HP70092 172.24		

Where is the PowerPatch tape?

gilg.r1w -	Reflection for HP		
ile <u>E</u> dit <u>C</u> o	onnection Setup Macro Script Window H	<u>i</u> elp	
	5 Po 🛍 12 🖬 🖬 🚣 🚣 .	I № ?	
Main Cr	n Menu HP Pa reate [Tape]	ıtch/iX	
Start	Time Operation	Estimated Time Elaps	ed Time
	Restore Patch Files	19:00	
 +			 +
1	<mark>N</mark> essaç	e Windou	
į			i

This is where it is really convenient to have multiple tape drives.

Put it on line?

Edit Connection Solum Macro Script Window Hel	
n 🚱 /s. es en se 🖬 🔍 🖉 findow res	p •
◍°°∿ ⊜″ା⊏่∷/™⊡™⊒≛≛_⊒	= R t
Main Menu HP Pate	ch/iX
Create [lape]	
Ctaut Time Onemation	Estimated Time Elevent Time
start lime uperation	ESTIMATED IIME ETAPSED TIME
Restore Patch Files	19:00
Prompt Wind	<u>lou</u> t
I Should HP Patch/1X put the tape dr	rive on-line
tor you? (Y/N) _	
 +	+
+Nessage	+ Чindou+
+ <u>Tessage</u>	Hindou
+ <u>Tlessage</u> 	Hindou
+ <u>flessage</u> 	Hindou
t <u>tlessage</u>	Mindou
<u>Tessage</u> 	Hindou
+ <u>lessage</u> 	Hindou
+ <u>llessage</u>	Hindou

You don't even have to get up from your desk.

Where will the CSLT tape be mounted?

R gilg.r1w - Reflection for HP				- 🗆 ×
<u>Eile Edit Connection Setup Macro</u>	Scri <u>p</u> t <u>W</u> indow <u>H</u> elp			Constantly of
] 🗣 🏟 🎒 🖷 🔀 🗗 🖷	🛍 🚣 🚣 🕷	?		
Main Menu Create [Tape]	HP Patch/i)	K		4
Start Time Operation	E	Estimated Time	Elapsed Time	
Restore Pat	ch Files	19:00		
I Hfter the librarie I they uill be store I in the process but I that you enter the I I Hhat is the LDE I the blank tape?	s and files are modi d to tape. This oper in order to automat LDEV for this tape V on uhich you uill 8_	ration μill occur ration μill occur te the process μe nou. be mounting	later ask 	
·	Hessage Wind	1011		-+
16, 28 HP70092 172.24.	54.41 via VT-MGR		Num	

Create tape tasks with time estimates

🟚 gilg.r1w - Reflection	n for HP		- 🗆 ×
<u>File Edit Connection</u>	Se <u>t</u> up Macr <u>o</u> Scri <u>p</u> t <u>W</u> indow <u>H</u>	[elp	
🗣 🊳 🖕 🖪	8 1) 🖥 🐿 🚣 .	Ⅰ №	
Main Menu Create [Ta	HP Pa	tch/iX	<u></u>
Start Time	Operation	Estimated Time Elapsed Time	
	Bestore Patch Files	19.00	
	Modifuing Libraries	21:00	
	Create A New Start PME	02:00	
	Create the Tape	41:00	
	Create the Stage	Stage Not Alloued	
+	<mark>Messag</mark>	e Hindou	-
HP Patch/iX for LDEV: +	is uaiting for a console 9.	reply for the tape request	
20, 48 HP	70092 - 172.24.64.41 via VT-MGR	Num	

Again, Patch/iX graciously estimates the time required for each step. All you have to do now (if using multiple tape drives, is watch out for and reply to tape requests.

Creating the CSLT tape

pgilg.r1w - Reflecti	on for HP		
ile <u>E</u> dit <u>C</u> onnection	Setup Macro Script <u>W</u> indow <u>H</u> e	lp	
- -	1 1 5 6 4 4 1	L N?	
Main Menu Create [HP Pat Tape]	ch/iX	
Start Time	Operation	Estimated Time	Elapsed Time
11.22.28	Bostoro Patch Filos	19.00	08·51
11:31:33	Modifuing Libraries	21:00	13:44
11:45:18	Create A New Start PME	02:00	00:17
11:47:06	Create the Tape	41:00	13:16
	Create the Stage	Stage Not Allowe	d
+	ilessage	Hindou	
Message: Cu < 	urrently creating a CSLT.	. >	

Note the actual elapsed time is significantly less than the estimate. YMMV.

Main Menu - Exit

- 🎨 🎒 🖪 🔁 🖣	5°E <u>∡∡</u> <u>I</u> <u>№</u>	
Main Menu	HP Patch/iX	
ACTION	STATUS	
Select Activities	PouerPatch Only	
Vieu Patches		
Qualify Patches	37 Patches Qualified	
Qualify Patches Create [Tape] > Exit HP Patch/iX	37 Patches Qualified CSLT/STORE Tape Created	
Qualify Patches Create [Tape] > Exit HP Patch/iX	37 Patches Qualified CSLT/STORE Tape Created	
Qualify Patches Create [Tape] > Exit HP Patch/iX	37 Patches Qualified CSLT/STORE Tape Created <u>Hessage Hindou</u> this action µill alloµ you to quit HP Patch/iX.	+

We're done with Phase I - well, almost.

What to do next

🏚 gilg.r1w - R	eflection for	HP					_ 🗆 ×
<u>File Edit Conr</u>	nection Setup	Macr <u>o</u> Scrip	₂t <u>W</u> indow <u>I</u>	Help	17728 V		
) 🖻 🛍		i 🚣 🚣		N?		
							<u> </u>
Note: Ar	n update IS	6 required	to install	this	set of patches.		
You mu 1) Pu	ust: renare this	sustem for	an undate	e fro	m the CSLT/STORE	tane	
2) U	odate uith	the CSLT/S	FORE tape of	creat	ed by HP Patch/i	ταρο. Κ.	
3) Re +1	e-run HP Pa he installa	tch/iX to d	complete the	he se iloc	cond phase of and streaming I-I	Filee)	
	ie matarit	111011 (1630	a ring of 1.	1165	and screaming i i	(1165).	
Please these s	follow the	instructio	ns in your	manu	al for each of		
chese s	ceps.						
Patch ma	anagement o	completed :	successful	ly.			
** EXIT	ING HP Pate	:h/iX **					
<gilg:< td=""><th>JPB, MANAGEF</th><td>R.SYS, INSTA</td><td>l) tue, ji</td><td>AN 9</td><th>), 2001 12:52 PM</th><th><td>ALL></td></th></gilg:<>	JPB, MANAGEF	R.SYS, INSTA	l) tue, ji	AN 9), 2001 12:52 PM	<td>ALL></td>	ALL>
[6]:_	1 10	c 1	44		4E 40		00
TI	12	13	14		13 10	17	10
							•

What it does not say, but what you should do unless you like living on the edge is validate the CSLT with first checkslt.mpexl.telesup and then with VSTORE. 72
CHECKSLT.MPEXL.TELESUP

🟚 gilg.r1w - Reflection for HP	x
<u>File Edit Connection Setup Macro Script Window H</u> elp	
Catalog Version 1.04.00 ***************************** CHECKSLT 1.9 ***********************************	•
LEVEL NUMBERS	
1 - Check the tape. Display errors and file names.	
2 - Check the tape. Display errors, file names and size.	
3 - Check the tape and display all information for each section.	
4 - Recover a TAPE BOOT file. NOT AVAILABLE	
5 - Recover a DISK file from the tape and copy it to a disk file.	
6 - Check the tape and display the contents of one file in hex.	
7 - Check the tape and display summary of tape and disk use statistics.	
8 – Information.	
9 - Exit program.	
Which level? 1	
f1 f2 f3 f4 f5 f6 f7 f8	
73, 15 HP70092 172.24.64.41 via VT-MGR	•

Choose option 1.

Partial results from CHECKSLT

n gilg.r1w - Reflection for HP	_ 🗆 🗙
Lie Lair Connection Setup Macro Script Window Help	
File Name: MDIAG. MPEXL.SVS File Name: SADPATCH.MPEXL.SVS File Name: SADPATCH.MPEXL.SVS File Name: STAGEISL.MPEXL.SVS File Name: TDIAG.MPEXL.SVS File Name: UNIPROC.MPEXL.SVS File Name: UNIPROC.MPEXL.SVS File Name: MISCP.CONFIG.SVS File Name: IDP.CONFIG.SVS File Name: LOGP.CONFIG.SVS File Name: SYSFILEP.CONFIG.SVS File Name: SYSFILEP.CONFIG.SVS File Name: IOLDEVP.CONFIG.SVS File Name: IOLDEVP.CONFIG.SVS File Name: IOLDEVP.CONFIG.SVS File Name: IOLOEVP.CONFIG.SVS File Name: IOLASSP.CONFIG.SVS File Name: IOLASSP.CONFIG.SVS File Name: IOLASSP.CONFIG.SVS File Name: IOLASSP.CONFIG.SVS File Name: STRINS.PUB.SVS File Name: SL.PUB.SVS File Name: SL.PUB.SVS File Name: IFHPIBFS.PUB.SVS File Name: IFHPIBFS.PUB.SVS File Name: XL.PUB.SVS File Name: XL.PUB.SVS	
f1 f2 f3 f4 f5 f6 f7	f8
190, 1 HP70092 172.24.64.41 via VT-MGR	

Partial results from CHECKSLT (cont.)

🟚 gilg.r1w - Reflection for HP		_ 🗆 ×
<u>File E</u> dit <u>Connection</u> Setup Macro Script <u>W</u> indow <u>H</u> elp		
] 🗣 🏟 🖨 🖻 🔁 🖥 🖬 🚣 🚣 👢 🕺		
File Name: REURITE.DIAG.SYS File Name: CO035000.DIAG.SYS File Name: FLEXRBLD.DIAG.SYS File Name: CO036000.DIAG.SYS File Name: CO036000.DIAG.SYS File Name: CO037000.DIAG.SYS File Name: CO037000.DIAG.SYS File Name: CO038000.DIAG.SYS File Name: CO038000.DIAG.SYS File Name: CO038000.DIAG.SYS File Name: CO039000.DIAG.SYS File Name: CO039000.DIAG.SYS File Name: CO040000.DIAG.SYS File Name: CO040000.DIAG.SYS File Name: CO040000.DIAG.SYS File Name: CO040000.DIAG.SYS File Name: CO041000.DIAG.SYS File Name: CO041000.DIAG.SYS File Name: CO041000.DIAG.SYS File Name: CO019000.DIAG.SYS File Name: CO019000.DIAG.SYS File Name: CO020000.DIAG.SYS File Name: CO030000.DIAG.SYS File Na		
>>> WARNING. There was one warning found.		
*** END UF THPE *** Want to try again uith this or another tape (Y or N)?_		
f1 f2 f3 f4 f5 f6	f7	f8
407, 54 HP70092 172.24.64.41 via VT-MGR		

What was the warning for?

VSTORE the CSLT

🙀 gilg.r1w - Reflection for HP	- 🗆 ×
<u>File Edit Connection Setup Macro Script Window Help</u>	
••••• 5 •• 6 17 •• • <u>*</u> <u>*</u> <u>*</u> <u>*</u>	
<pre><gilg: jpb,manager.sys,install=""> TUE, JAN 9, 2001 2:28 PM [9]:online.pamutil.sysmar 8</gilg:></pre>	•
ONLINE 93C Copyright (c) 1991 Allegro Consultants, Inc. (415) 369-2303 (email: sieler@allegro.com)	
Trying to put Idev 8 onlineuaiting for AVRok <gilg: jpb,manager.sys,install=""> TUE, JAN 9, 2001 2:28 PM </gilg:>	
[10]:file t;dev=8 <gilg: jpb,manager.sys,install=""> TUE, JAN 9, 2001 2:29 PM [11]:ustore *t:0.0.0</gilg:>	
STORE/RESTORE/VSTORE VERSION C.60.03 (C) 1986 HEALETT-PACKARD CO.	
VSTORE *t;@.@.@	
VSTORE SKIPPING SLT IN PROGRESS ON LDEV 8	
HILL VERIFY 137 FILES ; NUMBER OF FILES ON MEDIA 137	
FILES VERIFIED : 137	
<pre><gilg: jpb,manager.sys,install=""> TUE, JAN 9, 2001 2:38 PM [12]:_</gilg:></pre>	9
f1 f2 f3 f4 f5 f6 f7 f8	
431, 6 HP70092 172.24.64.41 via VT-MGR Num	

Go forth following your checklist (probably A) and finish the update (Phase II).

You will have to run Patch/iX again, this time from the console, to finish. Note that you must respond "YES" to "Are you ready to begin phase II of HP Patch/iX (y/n)?" to resume the installation and complete the task. Patch/iX will restore files from the CSLT tape (and SUBSYS tape if one is involved), create any necessary accounting structure and process installation files.

When complete, Patch/iX will display the message:

The installation is now complete.

Proceed to finish your checklist.

MPE/iX Updating and Patch Management Part Two

HP e3000 Solutions Symposium April 25, 2003

John Burke john@burke-consulting.com www.burke-consulting.com

Stage/iX

- How does it work? (see reference manual is SMM)
- What is a staging area?
- Setting up for the first time
- Commands
 - INITIALIZE
 STATUS
 LIST
 SET
 DELETE
 Expert mode
 COMMIT

STAGEMAN HELP

KSASHA: JPB,MGR.SYSADMIN,PUB> FRI, MAR 14, 2003 7:48 AM </SYSADMIN/PUB> [1]:stageman

STAGEMAN A.01.01, (C) Heulett-Packard Co., 1995. All Rights Reserved. STAGEMAN> help

STAGING AREA MANAGEMENT COMMANDS:

Required Command (Abbrev) Capabilities		Description					
INITIALIZE (INIT) UNINSTALL	5M SM	Initialize the HP Stage/iX facility Uninstall HP Stage/iX completely from					
		your system.					
STATUS (ST)	SM I OP	Display current status of HP Stage/iX.					
LIST (L)	SH I OP	List any staging areas on your system.					
DISKUSE (DU)	SM I OP	Display the total disk space used by a staging area.					
CREATE (CR)	SH	Create a staging area.					
DELETE (DEL)	SM	Delete a staging area.					
CHANGE (CH)	SM	Change the name or description for a staging area.					
VALIDATE (VAL)	SM	Validate a staging area.					
INVALIDATE (INVAL)	SH	Invalidate a staging area.					
COMMIT	SM	Make the current staging area the Base.					
SET	SM	Set the default staging area for the next boot.					
DUPLICATE	SM	Copy one staging area to another.					
IMPORT	SM	Import a staging area from another system.					
EXPORT	SM	Prepare a staging area to be exported to another system.					
RECOVER (REC)	SH	Recovers a staging area that is not recognized in the environment.					

STAGEMAN HELP (cont.)

MISC. COMMANDS:

Command (Abbrev)	Required Capabilities	Description
HELP (H)	SH I OP	Get help for an STAGEMAN command.
ERRMSG	SM I OP	Display cause/action text for a STAGEMAN error.
EXIT (E)	(none)	Exit STAGEMAN.
LISTREDO	(none)	Display the STAGEMAN command history.
REDO	(none)	Re-execute (and edit) a previous STAGEMAN command.
DO	(none)	Re-execute a previous STAGEMAN command.
L06	(none)	Log a copy of all STAGEMAN output to a file.
USE	(none)	Execute an STAGEMAN command file.
COMMENT (#)	(none)	Used to document a command file.
OPTION	(none)	Used to set options for command file processing.

For a more detailed description of any command type "help <command>".

Stage/iX example: TIXMXC3B applied to an MPE/iX 6.5 PP3+ system

This is a 6.5 patch (not contained in PowerPatch 3) that includes:

Symptoms ------GB file still exist even no accessor for the database. Cause -----A previous fix, attempt to clean up DBU entry in DBUX, will corrupt the DBUX tag if user open databases more than 127 times. That causes process termination routine not able to close all the opened DB, therefore, the GB file is left around. Fix ---Check whether the DBU entry exists or not.

What is Patchman?

Patchman is a shell script created by Mark Bixby that can be used to automate the available patch reporting and downloading process.

Patchman is available directly via http or anonymous ftp from bixby.org

Be certain that patchman is stored as a bytestream file on your HP 3000. We have seen instances where failure to do this has led to a hung session that can only be cleared through a reboot.

Patchman HELP

[132] / Usage i	SYSADMIN/PUB \$ patchman-2_2.sh -h s:
. /patch hfsdirl [-o [-f	man-2_2.sh [-adhnrty] [-c hfscatalogfile] [-e emailaddress] [-l istfile] hfsobsoletefile] [-u hfsunpackpfile] hfsftpclientprog] [-p [proxyuser:proxypass@]proxyhost]
- a	analyze the HP patch server for inconsistencies and then exit
- c	use this local catalog filename (HFS syntax) instead of FTP-ing ftp://us-ffs.external.hp.com/mpe-ix_patches/catalog
- d	download mode (requires :HELLO MANAGER.SYS,INSTALL)
- e	e-mail address to use for anonymous FTP
- f	FTP client program filename (HFS syntax); defaults to /SYS/ARPA/FTP
- h	print this usage information
- 1	use this local VUF dirlist filename (HFS syntax) instead of FTP-ing 'ls .' from ftp://us-ffs.external.hp.com/mpe-ix_patches/c.60.00/
- n	change the default answer to "N" (no) for all prompts in the DOWNLOADING PATCHES section (default)
- 0	use this local obsolete patch filename (HFS syntax) instead of FTP-ing ftp://us-ffs.external.hp.com/export/patches/mpe-ix_obs_patch_list
- p	FTP via this proxy server. The proxy user and password may be omitted if your proxy server does not require a separate login.
- r	report-only mode (default)
- t	download ALL patch description txt files at once and cache them for later use during the patch selection process
- u	use this local UNPACKP command filename (HFS syntax) instead of FTP-ing ftp://us-ffs.external.hp.com/export/bin/unpackp
- y	change the default answer to "Y" (yes) for all prompts in the DOWNLOADING PATCHES section

Patchman Report-Only Mode

See handouts

Is the patch already installed?

<SASHA: JPB,MGR.SYSADMIN,PUB> WED, MAR 12, 2003 11:10 PM </SYSADMIN/PUB> [13]:quadt hpswinfo.pub.sys QUAD -- JHK, Quest Software, KWS, Summit Information Systems, September, 1993 File unnumbered Nbr Rec: 608 Rec Size: 80 Bytes File Access: IN/OUT File code: 0 /l i"TIXMXC3B" /| i"TIX" 318 TIXLXB5A Limits in TurboImage/iX, Dataset size >806B soln, DBUTIL fix 451 TIXLXE5A DBUTIL MOVE command does not work properly. TIXMX73B DDX Corruption with rollback of xm while crossing expansion 605 of blocks /e <SASHA: JPB,MGR.SYSADMIN,PUB> WED, MAR 12, 2003 11:11 PM </SYSADMIN/PUB> [14]:

The exact patch is not there. However, other TurbolMAGE patches have been installed. We need to check that TIXMXC3B supercedes them; otherwise we would just waste time.

				AN	ERICAS / ASIA PACIFI
	hp home	products & services	support	solutions	how to buy
	patch det	ails: TIXMXC	3B	→ → view	patch main men selected patch lis
(T resource center	The recommen	ded patch is : TIXMXC	: <u>3B</u>		
→ search → online help → contact hp	The most recen	→ ADD TO	SELECTED PATCH I	IST	
 IT resource center home my profile > logout 	<u>Patch Name Patc</u>	h Description <u>Status</u> Pat	<u>ch Files Superse</u> database.	des Installation 1	Instructions
 maintenance and support → technical knowledge 	BY: MEL ROBERT: Patch Name: TJ	SON - CSY Patch Coordi IXMXC3B	nator		
base → support info by product → knowledge trees	Path Name: /mp Patch Descripti	e-ix_patches/c.65.00 on: GB file left ope)/TIXMXC3B n even no acc	essor to the c	latabase.
individual patches → more → forums	Last Updated: Date Entered:	02/03/03 10/28/02			
⇒site map	Patch Status: F SR Number: 8606-2840	etch is General Rel 08 8606-266870 8	ease :606-257226	8606-268617	

Dependency SCO: None

Welcome, John P. Burke! (CA55893)

ORGFILE	TARGFILE	PATCH TYPE
TIXMXC3B.TIXMXC3B.PATCHIX		
AUTOPAT.HP31900A.PATCHXL		
GENMXC3B.TIXMXC3B.PATCHIX		
REFMXC3B.TIXMXC3B.PATCHIX		
U21MXC3B.TIXMXC3B.PATCHIX	TIMAGE	
U22MXC3B.TIXMXC3B.PATCHIX	CORONA2	
RO1MXC3B.TIXMXC3B.PATCHIX	HP30391_01	RP
RO4MXC3B.TIXMXC3B.PATCHIX	HP30391_04	RP
ROSMXC3B.TIXMXC3B.PATCHIX	HP30391_03	RP
COOMXC3B.TIXMXC3B.PATCHIX	IMAGECAT. PUB. SYS	RP
CO2MXC3B.TIXMXC3B.PATCHIX	TICATOOO.PUB.SYS	RP
POOMXC3B.TIXMXC3B.PATCHIX	UTIINIT. TI. TELESUP	RP
PO1MXC3B.TIXMXC3B.PATCHIX	MXTI0308.TI.TELESUP	RP
PO2MXC3B.TIXMXC3B.PATCHIX	UTIINIT1. TI. TELESUP	RP
P32MXC3B.TIXMXC3B.PATCHIX	DBRESTOR. PUB. SYS	RP
P36MXC3B.TIXMXC3B.PATCHIX	DBRCVCM. PUB. SYS	RP
P60MXC3B.TIXMXC3B.PATCHIX	DBDRIVCM. PUB. SYS	RP
P61MXC3B.TIXMXC3B.PATCHIX	DBDUMP.PUB.SYS	RP
P62MXC3B.TIXMXC3B.PATCHIX	17DB8CNV. PUB. SYS	RP
P63MXC3B.TIXMXC3B.PATCHIX	DBCONV. PUB. SYS	RP
P64MXC3B.TIXMXC3B.PATCHIX	DBUTILB. PUB. SYS	RP
P65MXC3B.TIXMXC3B.PATCHIX	DBDRIVER. PUB. SYS	RP
P24MXC3B.TIXMXC3B.PATCHIX	SYTIO308.TI.TELESUP	RP
PO5MXC3B.TIXMXC3B.PATCHIX	IMAGEDMP. PUB. SYS	RP
P31MXC3B.TIXMXC3B.PATCHIX	DESTORE. PUB. SYS	RP
P34MXC3B.TIXMXC3B.PATCHIX	DBLOAD. PUB. SYS	RP
P33MXC3B.TIXMXC3B.PATCHIX	DBUNLOAD. PUB. SYS	RP
P30MXC3B.TIXMXC3B.PATCHIX	DBSCHEMA. PUB. SYS	RP
P35MXC3B.TIXMXC3B.PATCHIX	DBUTIL. PUB. SYS	RP
P68MXC3B.TIXMXC3B.PATCHIX	DBBIGSET. PUB. SYS	AD
P37MXC3B.TIXMXC3B.PATCHIX	DBRECOV. PUB. SYS	RP

Patch Package Size: 32752 sectors

General Release Text: Known Conflicts -----Not applicable Patch-to-Patch Dependencies ------Not applicable External Symptoms, Cause, Fix Description JAGae31115 8606-266870 _____ Symptoms -----MDX on automatic master doesn't work in Autodefer enabled Cause ____ The parameter passed to expansion procedure used the detail dataset number instead of the master dataset number. Fix ____ Set the right value before passing the parameter. JAGae21532 8606-257226 -----DBRECOV doesn't check all timestamps for multi db/multi quiesce logs JAGae32855 8606-268617 -----SA775 caused by a corrupted database. JAGae47954 8606-284008 _____

```
Symptoms
-----
GB file still exist even no accessor for the database.
Cause
-----
A previous fix, attemp to clean up DBU entry in DBUX, will corrupt the
DBUX tag if user open databases more than 127 times. That causes
process termination routine not able to close all the opened DB,
therefore, the GB file is left around.
Fix
____
Check whether the DBU entry exist or not.
Customer Environment Changes
------
Not Applicable
Hardware Dependencies
------
Not applicable
Software Product/Application Dependencies
Patch applies to MPE/iX 6.0, 6.5, 7.0
Product Version Information
------
TurboImage/iX version C.09.11.
See filename information for specific version changes for each module.
Dump Analysis
-----
Not applicable
```

Note this patch changes the TI version number – this is how we will tell the patch was applied.

Product Number/Name: HP30391 TURBOIMAGE/IX

Product VUF: C.09.11

OS Release VUF: C.65.00

Fix Release Version: B

Supersedes:

<	0)	TIXMXC3 B
\$	1)	TIXMX73 B
(2)	TIXMX63 B
¢	3)	TIXMX31 B
(4)	TIXMX12 B
\$	5)	TIXLXW6 B
(6)	TIXLXL4 A
¢	7)	TIXLXH2 C
(8)	TIXLXE5 A
\$	9)	TIXLXB5 A
(.	10)	TIXLX74 C

Criticality:

Non-critical

Distribution Recommendation:

For a Subsystem and should be installed on all systems with this subsystem.

Update Required: Yes

Special Instructions:

NO SPECIAL INSTRUCTIONS PROVIDED FOR THIS PATCH

Installation Instructions:

Before installing this patch, please review all instructions and the Hewlett-Packard SupportLine User Guide or Your Hewlett-Packard Support Terms and Conditions for precautions, scope of license, restrictions, and limitation of liability and warranties.

There is a document which gives a detailed descripton of all tasks required prior to installing your patch. Request this document from HPSL using e-mail (command: send mpeguide) or download it from the web

Unless there are special instructions, logon as MANAGER.SYS and run UNPACKP to unpackage and restore all files before installing your patch.

Note! Please back up your system before you patch.

top of page

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Initialize Stage/iX

<sasha: jpb,mgr.sysadmin,pub> wed, mar 12, 2003 10:29 pm </sysadmin/pub> [7]:listfile /SYS/hpstage/@,2;tree A component of the pathname does not exist. (CIWARN 9053) <sasha: jpb,mgr.sysadmin,pub> wed, mar 12, 2003 10:29 pm </sysadmin/pub> [8]:stageman STAGEMAN A.01.01, (C) Hewlett-Packard Co., 1995. All Rights Reserved. *Warning: The HP Stage/iX environment is not initialized. (STAGEMAN 1090) STAGEMAN> init Successfully initialized the HP Stage/iX environment. STAGEMAN> exit <SASHA: JPB,MGR.SYSADMIN,PUB> WED, MAR 12, 2003 10:30 PM </SYSADMIN/PUB> [9]:do 7 <SASHA: JPB,MGR.SYSADMIN,PUB> WED, MAR 12, 2003 10:30 PM </SYSADMIN/PUB> [9]: listfile /SYS/hpstage/@,2;tree PATH= /SYS/hpstage/ CODE ----ETI EUAUE

UDELUGICA			LUGICAL KECUKD			SPAC	E	FILENAME	
	SIZE	ТҮР	EOF	LIMIT F	R∕B	SECTORS	#X	МΧ	
	1 6W	HBD	0	67107839	1	32	1	*	base_archive/
	1 6W	HBD	0	67107839	1	32	1	*	export/
	1 6W	HBD	0	67107839	1	32	1	*	import/
	1536W	FB	52	52	1	624	1	1	stage_globals

Retrieve patch UNPACKP using FTP

<SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 11:14 AM </SYS/INSTALL>
[3]:ftp ftp.itrc.hp.com

File Transfer Protocol [A0010H07] (C) Hewlett-Packard Co. 2000 [PASSIVE SUPPORT]

220-220-Welcome to the IT Resource Center ftp server 220-----220-. . . 220-220 i3107ffs FTP server (HP ASL ftpd, version(322)) ready. Connected to ftp.itrc.hp.com (192.151.52.14). (FTPINFO 40) Name(manager): anonymous 331 Guest login ok, send your complete e-mail address as password. Password: 230 Guest login ok, access restrictions apply. Remote system type is UNIX ftp> cd export/bin 250 CWD command successful. ftp> type bytestream 200 Type set to L (byte size 8). ftp> get unpackp UNPACKP 200 PORT command successful. 150 Opening BINARY mode data connection for unpackp (10974 bytes). 226 Transfer complete. 10974 bytes received in 0.44 seconds (24.08 Kbytes/sec) ftp> bye 221 Goodbye. <SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 11:15 AM </SYS/INSTALL> [4]:

Retrieve patch TIXMXC3B using FTP

<SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 11:15 AM </SYS/INSTALL>
[5]:ftp ftp.itrc.hp.com
File Transfer Protocol [A0010H07] (C) Hewlett-Packard Co. 2000 [PASSIVE SUPPORT]

220 -220-Welcome to the II Resource Center ftp server 220-----220-. . . . 220 -220 i3107ffs FTP server (HP ASL ftpd, version(322)) ready. Connected to ftp.itrc.hp.com (192.151.52.14). (FTPINFO 40) Name(manager): anonymous 331 Guest login ok, send your complete e-mail address as password. Passuord: 230 Guest login ok, access restrictions apply. Remote system type is UNIX ftp> cd mpe-ix patches/c.65.00 250 CWD command successful. ftp> type byte 200 Type set to L (byte size 8). ftp> get TIXMXC3B 200 PORT command successful. 150 Opening BINARY mode data connection for TIXMXC3B (2721536 bytes). 226 Transfer complete. 2721536 bytes received in 17.26 seconds (154.02 Kbytes/sec) ftp> bye 221 Goodbye. <SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 11:24 AM </SYS/INSTALL> [6]:

Unpack the patch using UNPACKP - 1

<SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 11:24 AM </SYS/INSTALL>
[6]:unpackp TIXMXC3B,PATCHIX

* * * * * * * *

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* * * * * * *

The patch ID (SCO number) is TIXMXC3B The Patch Tool is PATCHIX

Unpack the patch using UNPACKP - 2

Step 1: Converting the file from bytestream to MPE format. Note that this may take several minutes on a large patch.

Step 2: Using STORE/RESTORE to unpack the file...

>> TURBO-STORE/RESTORE VERSION C.65.19 B5151AA << (C) 1986 HEWLETT-PACKARD CO.

RESTORE *unpkstor;@.@.@;SHOW;GROUP=PATCHXL;ACCOUNT=SYS;CREATOR=MANAGER

THU, MAR 13, 2003, 11:28 AM

WILL RESTORE	32 FILE	5	; NUMBER	OF	FILES	ON	MEDIA	32	
FILENAME GROUP	ACCOUNT	VOLUME	RESTRICTION	5			SECTORS	CODE	MEDIA
AUTOPAT .PATCHXL	.SYS	DISC				:C	384		1
COOMXC3B.PATCHXL	.SYS	DISC				:C	288		1
CO2MXC3B.PATCHXL	.SYS	DISC				:C	96	MGCAT	1
GENMXC3B.PATCHXL	.SYS	DISC				:C	112		1
POOMXC3B.PATCHXL	.SYS	DISC				:C	32		1
P01MXC3B.PATCHXL	.SYS	DISC				:C	928		1
P02MXC3B.PATCHXL	.SYS	DISC				:C	16		1
P05MXC3B.PATCHXL	.SYS	DISC				:C	32		1
P24MXC3B.PATCHXL	.SYS	DISC				:C	256	NMPRG	1
P30MXC3B.PATCHXL	.SYS	DISC				:C	880	NMPRG	1
P31MXC3B.PATCHXL	.SYS	DISC				:C	48	PROG	1
P32MXC3B.PATCHXL	.SYS	DISC				:C	32	PROG	1
P33MXC3B.PATCHXL	.SYS	DISC				:C	288	NMPRG	1
P34MXC3B.PATCHXL	.SYS	DISC				:C	256	NMPRG	1
P35MXC3B.PATCHXL	.SYS	DISC				:C	1664	NMPRG	1
P36MXC3B.PATCHXL	.SYS	DISC				:C	448	PROG	1

97

Unpack the patch using UNPACKP - 3

P37MXC3B.PATCHXL	.SYS	DISC	:C 1168	NMPRG
P60MXC3B.PATCHXL	.SYS	DISC	:C 80	PROG
P61MXC3B.PATCHXL	.SYS	DISC	:C 16	PROG
P62MXC3B.PATCHXL	.SYS	DISC	:C 144	PROG
P63MXC3B.PATCHXL	.SYS	DISC	:C 80	PROG
P64MXC3B.PATCHXL	.SYS	DISC	:C 64	PROG
P65MXC3B.PATCHXL	.SYS	DISC	:C 512	NMPRG
P68MXC3B.PATCHXL	.SYS	DISC	:C 336	NMPRG
R01MXC3B.PATCHXL	.SYS	DISC	:C 8816	NMRL
R03MXC3B.PATCHXL	.SYS	DISC	:C 7184	NMRL
R04MXC3B.PATCHXL	.SYS	DISC	:C 7168	NMRL
REFMXC3B.PATCHXL	.SYS	DISC	:C 64	
RMMXC3B .PATCHXL	.SYS	DISC	:C 512	
TIXMXC3B.PATCHXL	.SYS	DISC	:C 1376	
U21MXC3B.PATCHXL	.SYS	DISC	:C 64	USL
U22MXC3B.PATCHXL	.SYS	DISC	:C 96	USL

FILES RESTORED :

32

Patch TIXMXC3B has been unpacked successfully. <SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 11:28 AM </SYS/INSTALL> [7]: 1

1

Run PATCHIX



Sign on as "MANAGER.SYS,INSTALL". Before proceeding, make sure you have the latest version of Patch/iX for your system and that you have validated all tapes. Your PowerPatch or Reactive patch tape will have an appropriate version of Patch/iX or you can download the latest from the ITRC.

Identify this instance of PATCHIX

AP sas	sha.r1w - Reflec	tion for HP:									_0	×
File 8	Edit Connection	Setup Mad	ro Script \	Vindow	Help							
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	Main Menu			HP	Patch/iX							4
4 <u>2</u>	ACTION			<u></u>		S1	TATUS	<u>1965 - 2561 - 2</u>			<u></u>	
-	+		Pr	ompt	Windou			1991.1992.5		+		
	 HP Patch/iX - B.01.09 (C) Heulett-Packard CO. Please Enter Your Name: John Burke 											
				- <u>M</u> ess	age Wind	011		<u>thenti kinin a</u>	in in 1941, 194			
13	.43	IP70092 Gild	Jamesh						Num			

Enter you name here to identify this run of Patch/iX.

Main Menu - Select Activities

👘 sas	ha.r1w - Reflec	tion for HP									_ 🗆 ×
File E	dit Connection	Setup Macro	Script W	indow	Help						
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	Main Menu			HP P	Patch∕iX						*
<i>.</i>	ACTION					STA	ITUS				-
>	Select Activ View Patche	vities s									
	Qualify Pate Create [Sta	ches qe] [Tape]									
	Exit HP Pat	ch/iX									
+				Meees	ae Vindou						
	Message: Th perfor	is item all m and do so	ous you t me genera	io sel il pre	ect the typ paration sp	pe of pecif	patch ic to t	insta hose	llation activit	n to ties.	ł
+ H	le I p									Exit	
8,	, 1 H	P70092 Gilgar	mesh		101			2.52	Num		

This is where you tell Patch/iX what you want to do. Hit RETURN to select this menu item.

Select Activity

sasha.r1w	- Reflection for H)					_0
Edit Cor	nnection Setup M	acro Script Wi	ndow Help				
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Main Sel	Menu ect Activities		HP Patch/iX				
Mark	Activitu						
							-
	Adding a Powerl Adding Reactive	Patch Patches Fri	om Tanes				
>[X]	Adding Reactiv	e Patches Fr	om Dounload				
[]	Adding (SUBSYS) Products					
							-
+			lessage Windou-			· ·	†
I Nessa	ge: Nark this :	item 1† you i	have Dounloaded	I Reactive Pa	atches to	Hppiy.	4
1							
							1
+							I
+	Undo	Droco	an (1		Drouiou	
+ Help	Undo	Proce	ss			Previous	-
+ Help	Undo Mark	Proce List	ss			Previous Menu	-

Press F2 to "mark" "Adding a Reactive Patches From Download" and then press F4 to process the list of activities. Note that you can apply a PowerPatch, add reactive patches and add SUBSYS products in one (step.

Accept default setup?

jp sasha.r1w - Reflection for HP	
File Edit Connection Setup Macro Script Window Help	
D 🛎 🖬 🧉 🛍 🗣 🏟 🎕 12 🖀 🚟 🐺 😹 😽 🛠 🗚 🛱 🖼 🐬	1
Main Menu HP Patch/iX Select Activities	4
Mark Activity	
[] Adding a PouerPatch	
>[x]	
<pre>[]] HP Patch/1X can perform the default setup operations for</pre>	
+ 1 1	20
 +	
14, 50 HP70092 Gilgamesh Num	

Generally speaking, you can say "yes" if you are just applying a PowerPatch. Otherwise, say "no". It appears Patch/iX has been enhanced to eliminate the need to customize the setup; however, it is still a good idea (19) check anyway.

Perform Setup Activities

🔐 sasha.r1w - Reflection for HP	_ 🗆 🗙
File Edit Connection Setup Macro Script Window Help	
] D 🚅 🖬 🧶 📭 🎼 🗣 🏟 🏶 📅 🔚 🚟 🐼 🖉 🖌 🕅	ፍ ፍ ው 🤜 🗓
Main Menu HP Patch/iX Select Activities Customize Activities	A
Mark Activity Status	
[X] Purge unneeded files in INSTALL.SYS Group. Complet [] Purge all files in PATCHXL.SYS Group. Skipped [] Purge all files in USL.SYS Group. Not Nee [] Purge all files in UXL.SYS Group. Not Nee [] Purge all files in UNL.SYS Group. Not Nee [] Purge all files in UNL.SYS Group. Not Nee [] Purge all files from reactive patch tape. Not Nee [] Restore files from reactive patch tape. Not Nee [] Restore Product (SUBSYS) information files. Not Nee [] Restore PouerPatch information files. Not Nee [] Copy System Libraries. Not Nee	ted d Step eded eded eded eded eded eded
+ <u>Hessage Windou</u>	
20, 48 HP70092 Gilgamesh	Num

Main Menu - View Patches

👘 sas	ha.r1w - Reflec	tion for HP					
File E	dit Connection	Setup Macro	Script Window	Help			
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	Main Menu		HP	Patch/iX			<u>^</u>
	ACTION			S	TATUS		223
	Select Acti	vities		R	eactive Pate	ches Only	
	Vieu Patches Qualify Patches Create [Stage] [Tape] Exit HP Patch/iX		Tocs	age Windou			-
- T	Message: Th	is item allo	us unu to vi	eu natches nre	vinuslu ins	talled on the	i I
İ	system system	by HP Patch	/iX, and tho	se available t	o be instal	led on the	ł
H	elp					Exit	
9,	1	IP70092 Gilgam	esh			Num	

As before, this is optional. Presumably we've already checked that TIXMXC3B has not been installed.

Main Menu - Qualify Patches

🙀 sasha.r1w - Refle	tion for HP			
File Edit Connection	Setup Macro Script Window	Help		
🛛 🗅 😂 🖬 🛛 🎒	h 🖪 🗣 🏟 🍓 🕖	i i i i i i i i i i i i i i i i i i i	। 🏂 💦 👘 👘	H 🗟 🗍
Main Menu	HP	Patch/iX		A
ACTION		STATUS	; ;	
Select Acti	vities	Reacti	ive Patches Only	
> Qualify Pat Create [Sta Exit HP Pat Exit HP Pat Message: Se patche	ches ge] [Tape] ch/iX lection of this item uil s, and allou you to cust	age <u>Windou</u> I start qualificati omize the set of pa	ion of the set of atches.	
Help			E	

Let's go right to qualifying the patch.

Begin Qualification Process?

🖞 sasha.r1w - Reflection for HP	- O ×
File Edit Connection Setup Macro Script Window Help	
📙 🗅 🚄 🖨 🛍 🐠 🏟 🎕 🗗 🖀 🚟 🤯 🖉 📥 💖 👫 👫 🕀 🤜	1
Main Menu HP Patch/iX Qualify Patches Filter(1) = All	A
Patch ID Qualified Status Flags Tape Stage Origin	
[] TIXMXC3B ??? GR E,N Reactive ++	=
HP Patch/iX needs to do an initial full qualification step on the set of patches that includes a one-time checksumming of system components. All subsequent qualifications after this uill take only moments to perform. To do full qualification on these 1 patches, uill take approximately 00:30 (min:sec). Are you ready to begin this full qualification?(y/n) _	
+	
16, 66 HP70092 Gilgamesh Num	

Respond "yes" to continue.

Qualification Process

File Edit Connection Setup Macro Script Window Help Image: Imag	1
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Main Manu UD Datab // W	1.00
Qualify Patches Filter(1) = All	-
Patch ID Qualified Status Flags Tape Stage Origin	
[] TIXHXC3B ??? GR E,N Reactive	
+Information Window	
Patch Qualification in Progress	
PouerPatch Patches: 0 Estimated Time: 00:30	
I Reactive Patches: 1 Elapsed lime: UU:19 I	
į į	
÷	
+Hessage Hindou+	
Message: HP Patch/iX is now checksuming your system libraries and files.	
│	
20.48 HP70002	-
Result of Qualification Process

sasha.r1w - Reflect	ion for HP			
Edit Connection	Setup Macro Script Wind	dow Help		
) 🗲 🖬 🎒	h 🛍 🗣 🏟 👹 🕴	0 🖬 🖬 🦁 🚈	💩 🎭 💦 👘	r 🕂 🕀 🖼 🗍
Main Menu Qualify Pa	tches	HP Patch/iX Fi	ilter(1) = All	2
Patch ID	Qualified Status	Flags Tape	Stage Origin	
>[] TIXMXC3B	Yes GR	E,N CSLT/Store	e Yes Reactiv	e
•	1	essage Hindou		+
Description:	(Press <return> for</return>	detailed informat	tion on patch TIX	MXC3B)
I GB file left	open even no access	or to the database		i
Halm Hata	Eenee Dreese	Droutous	Nout	Drouious
nerp vetu	Change	s Filter	Filter	Menu

Surprise, surprise, it qualifies. If it did not, you would want to review why and discuss with your support provider.

View(1) = Summary

🛉 sasha.r1w - Reflection for HP	J×
File Edit Connection Setup Macro Script Window Help	
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Main Menu <u>HP Patch/iX</u> Vieu(1) = Summary Qualify Patches TIXMXC3B	4
QUALIFICATION STATUS: Qualified (patch naturally qualifies) PATCH INSTALLATION STATUS: Patch has not previously been installed by HP Patch/iX.	
PATCH RECOMMENDATION: Required product (SUBSYS) patch INSTALLATION METHOD:	
+dn	
+tessage Hindout	
Message: The Component view shows summary information about the patch. 	
Help Previous Next Previous Vieu Next Menu	
19, 1 HP70092 Gilgamesh Num Num	

Let's go through all eight screens to see what this patch is all about. This is the exact same description as in the patch database of the ITRC. 110

View(2) = GR Text

🙀 sasha.r1w - R	eflection for HP			_ 🗆 🗙
File Edit Connec	tion Setup Macro Script	Window Help		
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Main Mer Qualif TIXM	u Y Patches XC3B	HP Patch/iX Vi	eu(2) = GR Text	A
General Re Кпочп Cor Not appli	lease Text flicts cable			
Patch-to- ======= Not appli External	Patch Dependencies cable Sumptoms Cause Fix I	Description		
JAGae3111	5			+dn
		Maccago Ilindou		
l Message: I gener I have	The GR text (General al information about a much useful informatio	Release text) vieu p a patch. Patches not on in this vieu.	provides you uith : yet "GR" status m	ay not
Help	Previous Next Patch Patch	Previous Vieu	Next Vieu	Previous Menu
19, 1	HP70092 Gilgamesh		Nun	n

View(3) = SI Text

sasha.r	1w - Reflection fo	or HP				_ 🗆 🗙
ile Edit	Connection Setup	Macro Script W	/indow Help			
🗅 🖻	🖬 🎒 🖪	🗈 🐠 🍪 🍓	10 🖬 🖬 🤇	/ 🚈 📩 🍫	💦 👫 🕀 "	₹ 1
Hai (n Menu lualify Patche TIXMXC3B	S	HP Patch/iX	Vieu(3) =	SI Text	4
Spec:	al Instructio NO SPECIAL I	ns Text NSTRUCTIONS PRO	VIDED FOR THIS	РАТСН		
AGa	e31115					
+ Mes 	sage: The SI any special i specific patc	text (Special) nstallation or h.	Message Windou Instructions te configuration	xt) vieu prov requirements	ides you uith for the	
Help	Previous Patch	Next Patch	Prev Vie	vious Next Vieu	Previo Menu	Dus
19, 1	HP70092	? Gilgamesh			Num	

View(4) = KPR Numbers

p sasha.r1w - Reflection f	or HP		>
File Edit Connection Setur	p Macro Script Window Hel	2	
D 🗳 🖬 🎒 🖻	🛍 🗣 🏟 🍓 🕖 🚞	📅 🐺 🔚 📩 🗞 🕅 🕅	👫 桥 🖽 🐬 🖺
Main Menu Qualify Patche TIXMXC3B	HP Patc es	h/iX Vieu(4) = KPR N	lumbers
KPR Numbers ======8606-284008	8606-266870 8606-25		
AGae31115			
+ The KPC	<mark>llessage</mark> (Known Problem Benert)	Windou ujeu proujdes vou vith	+
KPR numbers 	(also called SR numbers) associated with this p	atch.
+ Help Previous Patch	Next Patch	Previous Next Vieu Vieu	Previous Menu
19, 1 HP7009	2 Gilgamesh		

View(5) = Product Numbers

ip sasha.r	1w - Reflection fo	or HP					
File Edit	Connection Setup	o Macro Script	Window Help				
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Mai (in Menu Qualify Patche TIXMXC3B	S	HP Patch	√iX Vi	.eu(5) = Proc	luct Numbers	
	Prod Num Desc	ription					
	HP30391 TURB	OIMAGE/IX					
06:	a31115						
=====							
+			Messane L	indou			-+
Mes 	ssage: The Pro that are affe	duct Number v cted by this	ieu provic patch.	les you a l	ist of the p	products	ł
Help	Previous Patch	Next Patch		Previous Vieu	Next Vieu	Previou Menu	s
19, 1	HP70092	2 Gilgamesh				Num	

View(6) = Supercedes

ÁP S	asha.r1	w - Reflectio	on for HP							
File	Edit C	Connection S	ietup Macro	Script Window	Help					
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	Mair Qu	n Menu Jalify Pat TIXMXC3B	ches	HP	Patch/iX Vi	ieu(6) = Supersed	les			
	Patch ID									
	(0) 1 (1) (2	KIXOGE TIXHX73B 2) TIXHX63 (3) TIXHX (4) TIX (5) T (6) (B 31B MX12B IXLXH6B TIXLXL4A 7) TIXLXH2((8) TIXLXH (9) TIX (10)T	C E5A LXB5A IXLX74C	age Uipdou					
Mindon Message: The Supersede view shows you the history of this patch, namely what patches this patch is built on. I										
	Help	Previo Patch	ous Next Patch		Previous Vieu	Next Vieu	Previous Menu			
	19, 1	HP7	0092 Gilgame	esh		n l	Num			

View(7) = Patch Components

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POINTL. PO2MXC	30.11XHXC38 30.TIXMXC38	.PHICHIX	UTIINIT1.TI	. TELESUP . TELESUP	RP RP DD	%153445 %65037	MATCH	
PUSHAL	3B.TIXMXC3B 3B.TIXMXC3B	.PATCHIX	SYTIO308.TI	D. 3Y3 . TELESUP R. SUS	RP RP DD	%17254 %24212 %100342	MATCH	
P31MXC	3B.TIXMXC3B	.PATCHIX		.SYS B SVS	RP	%144217 %153501	НАТСН	
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+ Messa arc	ge: The Com e modified	ponent vi by this p	eu shous you atch.	e Windou the files ar	nd procedu	res that	+ 	
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View(8) = Patch Dependencies

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Back to Qualification Screen

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Main Menu - Create [Stage] [Tape]

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H	le I p									Exit	
11,	1 H	IP70092 Gilgar	nesh						Nur	n	

Note that since the patch is stageable and we initialized Stage/iX, we are now given the opportunity to stage the patch. 119

Stage, Tape or Both?

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Main Menu HP Patch/iX Create [Stage] [Tape]	4
Start Time Operation Estimated Time Elapsed Time	
Restore Patch Files	
I (S)taging area, (I)ape, or (B)oth. H Hhat is your selection? (S, T, B) s_ I I I I I I I I I I I I I	
+Message Windou	
13, 45 HP70092 Gilgamesh Num	1.

We'll just create the staging area.

Name Staging Area

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Main Menu HP Patch/iX Create [Stage] [Tape]	*
Start Time Operation Estimat	ted Time Elapsed Time
Restore Patch Files	
16 characters using HFS naming syntax conve What is the name for the staging area? TI 	entions. KMXC3B
+ <u>Message Windou</u> 	
13, 57 HP70092 Gilgamesh	

If it is just one Reactive Patch, use the patch name; otherwise think up something descriptive. Note that the name is case sensitive (we'll see this later). 121

Creating the Stage

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File Edit Connection	Setup Macro Script Window	Help	
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12:15:59	Restore Patch Files Modifying Libraries Create A Neu Start PME Create the Tape Create the Stage	Not Required 03:00 02:00 No Tape Requested 04:00	00:12
+ Message: Cu < +	rrently Modifying the sta	age <u>Hindou</u> aged SL in SL.INSTALL.SY >	s.
17,80	HP70092 Gilgamesh		Num //

Main Menu - Exit

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12	,1	1P70092 Gilgar	mesh		ik.				Num		_	-

Purge files in PATCHXL.SYS?

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11	1,44	H	970092 -	- Gilgam	iesh									Nu	JM		1

What to do next?

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	_
Note: You must RUN STAGEMAN PUB SYS and SET STAGE= <stage name=""></stage>	
and then reboot your system to activate the staging area.	
Places follow the instructions in your wanual for each of	
these steps.	
Patch management completed successfully.	
** EXITING HP Patch/iX **	
<pre><sasha: ,manager.sys,install=""> THU, MAR 13, 2003 12:29 PM rg1.</sasha:></pre>	
f1 f2 f3 f4 f5 f6 f7 Previo	
Comman	d _
34.5 HP70092 Gilgamesh	

What does hpstage look like now? - 1

<SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 12:29 PM </SYS/INSTALL>
[9]:listfile /SYS/hpstage/@,2;tree
PATH= /SYS/hpstage/

CODE -----SPACE---- FILENAME SIZE TYP LIMIT R/B SECTORS #X MX EOF 16H HBD 0 67107839 1 32 1 * TIXMXC3B/ 67107839 1 32 1 * base archive/ 16H HBD 0 16H HBD 67107839 1 32 1 * export/ 0 16H HBD 0 67107839 1 32 1 * import/ 1536H FB 52 52 1 624 1 1 stage_globals

PATH= /SYS/hpstage/TIXMXC3B/

CODE	EL0		GICAL RECOR	0		SPAC	:E		FILENAME	
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	1276B	VA	275	1023	1	256	1	*	AUTOLOG.INSTALL.SYS	
NMPRG	1284	FB	327	327	1	336	1	8	DBBIGSET.PUB.SYS	
PROG	1288	FB	78	78	1	80	1	1	DBCONV.PUB.SYS	
PROG	1284	FB	66	66	1	80	1	1	DBDRIVCM.PUB.SYS	
NMPRG	128H	FB	508	508	1	512	1	8	DBDRIVER.PUB.SYS	
PROG	1284	FB	14	14	1	16	1	1	DBDUMP.PUB.SYS	
NMPRG	1284	FB	254	254	1	256	1	8	DBLOAD.PUB.SYS	
PROG	1284	FB	439	439	1	448	1	1	DBRCVCM.PUB.SYS	
NMPRG	1284	FB	1156	1156	1	1168	1	8	DBRECOV.PUB.SYS	
PROG	1284	FB	29	29	1	32	1	1	DBRESTOR.PUB.SYS	
NMPRG	1284	FB	879	879	1	880	1	8	DBSCHEMA.PUB.SYS	
PROG	1284	FB	34	34	1	48	1	1	DBSTORE.PUB.SYS	
NMPRG	1284	FB	277	277	1	288	1	8	DBUNLOAD.PUB.SYS	
NMPRG	1284	FB	1653	1653	1	1664	1	8	DBUTIL.PUB.SYS	
PROG	1284	FB	55	55	1	64	1	1	DBUTILB.PUB.SYS	
	80B	FA	616	8000	3	512	1	*	HPSHINFO.PUB.SYS	
PROG	128H	FB	137	137	1	144	1	1	I7DB8CNV.PUB.SYS	

What does hpstage look like now? - 2

	80B	FA	893	893	16	288	1	1	IMAGECAT.PUB.SYS
	80B	FA	87	87	32	32	1	4	IMAGEDMP.PUB.SYS
	80B	FA	2926	2926	16	928	1	16	MXTI0308.TI.TELESUP
	80B	FA	179	100000	3	256	1	*	PATCHAUD.PUB.SYS
	1B	BA	42812	2147483647	1	176	1	*	PMSHINF0.PUB.SYS
SL	128H	FB	167568	320000	1	167936	1	*	SL.PUB.SYS
	80B	FA	185	15000	3	64	1	*	STAGELOG. INSTALL.SYS
NMPRG	128H	FB	248	291	1	256	1	8	SYTI0308.TI.TELESUP
HGCAT	128H	FB	91	91	1	96	1	31	TICAT000.PUB.SYS
	72B	FA	106	106	1	32	1	1	UTIINIT.TI.TELESUP
	72B	FA	47	47	1	16	1	1	UTIINIT1.TI.TELESUP
NHXL	128H	FB	68165	4096000	1	69280	1	*	XL.PUB.SYS
	512H	FB	30	10000	1	256	1	*	stage_contents

STAGEMAN SET command

<SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 12:31 PM </SYS/INSTALL>
[10]:stageman
STAGEMAN A.01.01, (C) Hewlett-Packard Co., 1995. All Rights Reserved.
STAGEMAN> help set

Description:

The SET command is used to designate a particular HP Stage/iX staging area for use on the next boot. When a staging area is in use, it is considered "active". The process of "activating" a staging area requires that the system be re-booted (using the ISL> START command). The SET command is used to designate which staging area should be used on the next reboot. On each subsequent reboot (START) the system will automatically use the same staging area as was used on the previous reboot, unless the system manager changes the default by using the SET command.

The user must specify the name of a validated HP Stage/iX staging area to the SET command. The SET command will accept the string "BASE" to indicate that the system should be booted from the BASE on the next reboot.

The SET command cannot be abbreviated.

Syntax:

SET [[STAGE=]stage_name]

Keywords: DESC, PARMS, EXAMPLE, ALL STAGEMAN>

SET TIXMXC3B

STAGEMAN> list

 STAGING AREA NAME
 MOD DATE
 V
 DESCRIPTION

 TIXMXC3B
 03/13/03
 V
 Reactive Patches

 User:
 John Burke

STAGEMAN> status

Last booted with: BASE Next boot will be with: BASE

STAGEMAN> set TIXMXC3B Set staging area for next boot to "TIXMXC3B". STAGEMAN> status

Last booted with: BASE Next boot will be with: TIXMXC3B

STAGEMAN> exit <SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 12:42 PM </SYS/INSTALL> [11]:

Before Reboot Check Version of TI

<SASHA: JPB,MGR.SYSADMIN,PUB> THU, MAR 13, 2003 12:52 PM </SYSADMIN/PUB>
[1]:query
HP32216D.03.21 QUERY/NM THU, MAR 13, 2003, 12:53 PM
COPYRIGHT HEWLETT-PACKARD CO. 1976

>version

QUERY D.03.21

TurboIMAGE Overall VUF: HP30391C.09.10 TurboIMAGE/XL

System Shutdown

=shutdoun Shutdoun of operating system begins. (Shut 1) Shutdoun of user processes begins. (Shut 2) Shutdoun of jobs & sessions begins. (Shut 3) Spoolers notified of a shutdoun. (Shut 16) 13:01/49/Output spooler, LDEV #6: Cannot open physical device. 13:01/49/Output spooler, LDEV #6: Stopped. 13:01/43/Output spooler, LDEV #2002: Stopped. 13:01/40/The Spooling system has been shutdoun. Shutdoun of system processes begins. (Shut 4) 13:06/1/System pin number 24 timed out. (Shut 9) Shutdoun of system managersShutdoun of operating system complete. (Shut 6)

OK, let's activate the stage by doing a shutdown followed by a START NORECOVERY.

Boot

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File Edit Connection Setup Macro Window Help	
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	-
Type Y to confirm your intention to restart the system (Y/[N]): y SPU harduare was successfully reset. (APMSG 02) @	
Processor Dependent Code (PDC) revision 1.5	
Duplex Console IO Dependent Code (IODC) revision O	
Console path = 56.0.0.0.0.0 (dec) 38.0.0.0.0.0 (hex)	
Primary boot path = 52.6.0.0.0.0 (dec) 34.0000006.0.0.0.0 (hex)	
Alternate boot path = 52.0.0.0.0.0 (dec)	
34.0.0.0.0.0 (hex)	
96 MB of memory configured and tested.	
Boot from primary boot path (Y or N)?> _	
ControlB ControlA DO -1	
140, 40 HP70092 COM1 at 9600 baud Num	

START NORECOVERY

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File Edit Connection Setup Macro Window Help	
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Booting Boot IO Dependent Code (IODC) revision 2	•
HARD Booted.	
MMSAVE Version 2.5 DUMPAREA found, save main memory to disc ISL loaded	
ISL Revision A.00.42 JUN 19, 1999	
ISL> start norecovery MPE/iX launch facility	
Initialize_genesis - Version : <<870204.1552>> THU, MAR 13, 2003, 1:32:34 PM (y/n)? [CDM]11 1 4 10	
Initialize genesis completed. Create Console Messages kso completed.	
Initialize memory manager completed. Initialize resident kernel completed. Initialize volume management and mount the System Disk -	
ControlB ControlA D0 -1	
166, 1 HP70092 COM1 at 9600 baud Num	

System Startup

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File Edit Connection Setup Marco Window Help	
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NPIP NETHORK GERVILE GIHRIED. Neetati Nethory ceduice stadted	
NSSTAT NETHONN SERVICE STARTED.	
LOOPBACK NETUORK SERVICE STARTED	
BPML NETHORK SERVICE STARTED.	
RPM NETHORK SERVICE STARTED.	
PTOPL NETWORK SERVICE STARTED.	
PTOP NETWORK SERVICE STARTED.	
RFAL NETHORK SERVICE STARTED.	
RFA NETHORK SERVICE STARTED.	
NFTL NETWORK SERVICE STARTED.	
NFT NETHORK SERVICE STARTED.	
VTRL NETWORK SERVICE STARTED.	
VTR NETHORK SERVICE STARTED.	
VTL NETHORK SERVICE STARTED.	
VI NETAURK SERVICE STARTED.	
21:03/#J1/48/LUGUFF UN LUEV #10.	
ZSASHAT CANCALE MANAGED SUS DURN THIL MAD 13 2003 0.03 DM Z/SUS/DURN	
[1]·91·03/# 19/55/EROM/MANAGER SUS/	
21:03/#J2/55/FROM/MANAGER SVS/Skinning check/stonning of newoond need sus	
21:03/#J2/55/FROM/MANAGER.SVS/reason: This *is* JPSMON.PBED.SVS	
21:03/#J2/55/FROM/MANAGER.SYS/	
ControlB ControlA DO -1	
	-
578, 1 HP70092 COM1 at 9600 baud Num	

Was the patch applied?

<SASHA: JPB,MGR.SYSADMIN,PUB> THU, MAR 13, 2003 9:16 PM </SYSADMIN/PUB>
[4]:query
HP32216D.03.21 QUERY/NM THU, MAR 13, 2003, 9:16 PM
COPYRIGHT HEWLETT-PACKARD CO. 1976

>version

QUERY D.03.21

TurboIMAGE Overall VUF: HP30391C.09.11 TurboIMAGE/XL

Now let's look at the system status with STAGEMAN.

Check System Status

<SASHA: JPB,MGR.SYSADMIN,PUB> THU, MAR 13, 2003 9:10 PM </SYSADMIN/PUB>
[3]:stageman
STAGEMAN A.01.01, (C) Hewlett-Packard Co., 1995. All Rights Reserved.
STAGEMAN> status

Last booted with: TIXMXC3B Next boot will be with: TIXMXC3B

STAGEMAN> list

STAGING AREA NAME MOD DATE V DESCRIPTION TIXMXC3B * 03/13/03 V Reactive Patches User: John Burke

STAGEMAN> help list

Description:

The LIST command will give the user a list of HP Stage/iX staging areas. Wildcard characters are accepted when listing staging areas.

By default the LIST command will display the name of the staging area, the last modified date, a flag indicating whether or not the staging area is valid or invalid (see VALIDATE/INVALIDATE commands), and the brief description associated with the staging area.

In addition, a "*" will be displayed at the end of the staging area name if the staging area is active (in use); a "^" will be displayed at the end of the staging area name if the staging area will be used for the next system boot (see the SET command).

The LIST command will also list more detailed information about the files that are in a particular staging area, and/or the patches that

Commit stage and examine the results

STAGEMAN> help commit

Description:

The HP Stage/iX subsystem allows system managers to activate patched system software without overwriting the pre-existing system software environment. Whenever the system is booted from an HP Stage/iX staging area, the system manager has the option of reverting to the previous system software environment by booting from the BASE (see the SET command).

If the system manager has been using a particular HP Stage/iX staging area for a period of time, and is satisfied with that overall quality of the patched system software environment (reliability, performance, etc), then the system manager can make the patched software environment the new BASE. The action of making the current staging are the new base is not reversible. For this reason, HP Stage/iX refers to the action as "committing". The COMMIT command can be used to make the current staging are the new BASE without re-booting the system or doing an UPDATE.

In order to use the COMMIT command, the system must be booted from an HP Stage/iX staging area, and there must not be an alternate staging area designated for the next boot.

The COMMIT command will perform several steps. It will first prompt the user for confirmation of his/her intent to commit to the current software environmnt. The ;NOCONFIRM option can be used to suppress the confirmation prompt. The COMMIT command will then make all of the necessary changes to the system software environment so that the current system software becomes the new base. Finally, the COMMIT command will delete the HP Stage/iX staging area.

COMMIT

STAGEMAN> commit This will permanently alter your HP Stage/iX environment. Are you sure? [Y/N]y Committed staging area "TIXMXC3B" to the Base. STAGEMAN> list *Warning: No staging areas exist. (STAGEMAN 1016) STAGEMAN> status Last booted with: BASE Next boot will be with: BASE STAGEMAN> exit <SASHA: CONSOLE, MANAGER. SYS, PUB> THU, March 13, 2003 11:09 PM </SYS/PUB> [5]:listfile /SYS/hpstage/@, 2;tree PATH= /SYS/hpstage/ CODE -----SPACE----FI LENAME SIZE TYP EOF LIMIT R/B SECTORS #X MX 16W HBD 0 67107839 1 32 1 * base_archive/ 72B FA 29826161 256 1 32 current_log 119 1 32 1 * export/ 16W HBD 0 67107839 1 16W HBD 67107839 32 1 * import/ 0 1 1536W FB 52 52 624 1 1 stage_globals 1

MPE/iX Updating and Patch Management

HP e3000 Solutions Symposium April 25, 2003

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