

# MPE/iX Updating and Patch Management Part One

HP e3000 Solutions Symposium  
April 25, 2003

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# Some useful URLs

## Documentation: docs.hp.com

MPE/iX 5.5	<a href="http://docs.hp.com/mpeix/5.5/index.html">docs.hp.com/mpeix/5.5/index.html</a>
MPE/iX 6.0	<a href="http://docs.hp.com/mpeix/6.0/index.html">docs.hp.com/mpeix/6.0/index.html</a>
MPE/iX 6.5	<a href="http://docs.hp.com/mpeix/6.5/index.html">docs.hp.com/mpeix/6.5/index.html</a>
MPE/iX 7.0	<a href="http://docs.hp.com/mpeix/7.0/index.html">docs.hp.com/mpeix/7.0/index.html</a>
MPE/iX 7.5	<a href="http://docs.hp.com/mpeix/7.5/index.html">docs.hp.com/mpeix/7.5/index.html</a>
Above combined	<a href="http://docs.hp.com/all/index.html">docs.hp.com/all/index.html</a>
Old-style 5.0 & 5.5	<a href="http://docs.hp.com/mpeix/docs5/index.html">docs.hp.com/mpeix/docs5/index.html</a>

“jazz”

IT Resource Center

Mark Bixby’s port & utility site

Allegro Consultants

Beechglen

John Burke’s Hidden Value,  
net.digest, “Best Of”, etc.

[jazz.external.hp.com](http://jazz.external.hp.com)

[itrc.hp.com](http://itrc.hp.com)

[www.bixby.org/mark/](http://www.bixby.org/mark/)

[www.allegro.com](http://www.allegro.com)

[www.beechglen.com](http://www.beechglen.com)

[www.burke-consulting.com](http://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](http://docs.hp.com) and on CD-ROM)
  - Software Maintenance Manual (also available at [docs.hp.com](http://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

# Patch Details: TIXMXC3B - 1

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## patch details: TIXMXC3B

→ [patch main menu](#)  
→ [view selected patch list](#)

**The recommended patch is :** [TIXMXC3B](#)  
**The most recent patch is :** [TIXMXC3B](#)

→ ADD TO SELECTED PATCH LIST

[Patch Name](#) [Patch Description](#) [Status](#) [Patch Files](#) [Supersedes](#) [Installation Instructions](#)

---

GB file left open even no accessor to the database.  
BY: MEL ROBERTSON - CSY Patch Coordinator

**Patch Name:** TIXMXC3B

**Path Name:** /mpe-ix\_patches/c.65.00/TIXMXC3B

**Patch Description:** GB file left open even no accessor to the database.

**Last Updated:** 02/03/03

**Date Entered:** 10/28/02

**Patch Status:** Patch is General Release

**SR Number:**

8606-284008	8606-266870	8606-257226	8606-268617
-------------	-------------	-------------	-------------

**Dependency SCO:** None

# Patch Details: TIXMXC3B - 2

Dependency SCO: None

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## Patch Files:

ORGFIL	TARGFILE	PATCH TYPE
TIXMXC3B.TIXMXC3B.PATCHIX		
AUTOPAT.HP31900A.PATCHXL		
GENMXC3B.TIXMXC3B.PATCHIX		
REFMXC3B.TIXMXC3B.PATCHIX		
U21MXC3B.TIXMXC3B.PATCHIX	TIMAGE	
U22MXC3B.TIXMXC3B.PATCHIX	CORONA2	
R01MXC3B.TIXMXC3B.PATCHIX	HP30391_01	RP
R04MXC3B.TIXMXC3B.PATCHIX	HP30391_04	RP
R03MXC3B.TIXMXC3B.PATCHIX	HP30391_03	RP
C00MXC3B.TIXMXC3B.PATCHIX	IMAGECAT.PUB.SYS	RP
C02MXC3B.TIXMXC3B.PATCHIX	TICAT000.PUB.SYS	RP
P00MXC3B.TIXMXC3B.PATCHIX	UTIINIT.TI.TELESUP	RP
P01MXC3B.TIXMXC3B.PATCHIX	MXTI0308.TI.TELESUP	RP
P02MXC3B.TIXMXC3B.PATCHIX	UTIINIT1.TI.TELESUP	RP
P32MXC3B.TIXMXC3B.PATCHIX	DBRESTOR.PUB.SYS	RP
P36MXC3B.TIXMXC3B.PATCHIX	DBRCVCM.PUB.SYS	RP
P60MXC3B.TIXMXC3B.PATCHIX	DEDRIVCM.PUB.SYS	RP
P61MXC3B.TIXMXC3B.PATCHIX	DEDDUMP.PUB.SYS	RP
P62MXC3B.TIXMXC3B.PATCHIX	I7DB8CNV.PUB.SYS	RP
P63MXC3B.TIXMXC3B.PATCHIX	DBCONV.PUB.SYS	RP
P64MXC3B.TIXMXC3B.PATCHIX	DEUTILB.PUB.SYS	RP
P65MXC3B.TIXMXC3B.PATCHIX	DEDRIVER.PUB.SYS	RP
P24MXC3B.TIXMXC3B.PATCHIX	SYTIO308.TI.TELESUP	RP
P05MXC3B.TIXMXC3B.PATCHIX	IMAGEDMP.PUB.SYS	RP
P31MXC3B.TIXMXC3B.PATCHIX	DBSTORE.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	DEUTIL.PUB.SYS	RP
P68MXC3B.TIXMXC3B.PATCHIX	DEBIGSET.PUB.SYS	AD
P37MXC3B.TIXMXC3B.PATCHIX	DBRECOV.PUB.SYS	RP

Patch Package Size: 32752 sectors

# Patch Details: TIXMXC3B - 3

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

-----

# Patch Details: TIXMXC3B - 4

## 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 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

# Patch Details: TIXMXC3B - 5

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

# Patch Details: TIXMXC3B - 6

## 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 description 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](#)

# 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

---

→ **IT resource center home**

- my profile
- logout

---

→ maintenance and support

- technical knowledge base
- support info by product
- knowledge trees individual patches
- more...

- forums
- training and education

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→ site map

## patch main menu

retrieve a single patch by entering the patch name (e.g. PHCO\_12345 or 12345)

- **hp-ux**  
available hp 9000 patches for the series 800 and 700
- **tru64 UNIX**  
available patches for Tru64 UNIX systems, including systems running TruCluster and AlphaServerSC software
- **mpe/iX**  
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**  
archived patches

→ [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

- large font (Netscape 4.7x on UX)

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# Patch Database



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## 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

**step 2:** [how would you like to search?](#)

**step 3:** [search criteria](#)

**step 4:** results per page

[For general help in using Patch Database, read our Usage Guide.](#)

→ [printable version](#)

- [patch main menu](#)
- [view selected patch list](#)

**useful links**

- [patch warnings replace recalls](#)
- [installing your Patch Download package on MPE](#)

# Patch Installation Guide - 1

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## mpe/ix patch installation and tools guide

Instructions for Downloading and Installing Patches from the HP IT Resource Center

### overview

Please read this section first if you are new to downloading MPE/iX patches from the HP IT Resource Center.

### packaging

MPE/iX patches provided by the HP IT Resource Center are packaged into a single file that can be downloaded and transferred to any PC, HP-UX, or MPE system. The packaging scheme uses a combination of STORE-to-disk and the MPE TOBYTE /FROMBYTE utilities to allow MPE file attributes on individual files to be maintained. The [UNPACKP command file](#) performs the necessary steps to unpack an individual patch file and prepare it for installation via the Patch/iX or AUTOPAT tool.

### patch ids

An MPE/iX Patch ID (also called an SCO ID) is used to track and maintain all information and code changes pertaining to the fix of a customer's problem. The Patch ID consists of eight alphanumeric characters, with the last character always being an alphabetic representation of the patch version. An example would be "MPEHX65C", where "C" is the patch version of MPEHX65. The Patch IDs referred to in this document and used by the patch database ALWAYS include the version.

# Patch Installation Guide - 2

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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**
3. Compare this version number (for example, B.01.02) with the latest version available for your release on the HP IT Resource Center [Patch/iX download](#) 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.

# Patch Installation Guide - 3

## installation steps

Use the following steps to download, unpack, and install a patch on your HP3000 system. Each step 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
```

# Patch Installation Guide - 4

## method b: download to a pc or unix workstation

1. Download the [UNPACKP command file](#) 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.
2. 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.

# Patch Installation Guide - 5

```
: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
```

# Patch Installation Guide - 6

## 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.
2. 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.
```

# Patch Installation Guide - 7

```
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 [Patch/iX Instructions](#) 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

AMERICAS / ASIA PACIFIC

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invent

[→ patch main menu](#)  
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## patch/ix download page

This page contains up-to-date version information for Patch/iX, as well as downloads for all the latest Patch/iX versions in STORE-to-disk format. Refer to the installation instructions below for details on how to install the downloaded files.

### patch/ix versions

Click on the appropriate link below to download the Patch/iX file set to your PC or Unix workstation.

The latest version of Patch/iX for [6.0](#) (C.60.0x).

The latest version of Patch/iX for [6.5](#) (C.65.0x).

The latest version of Patch/iX for [7.0](#) (C.70.0x).

The latest version of Patch/iX for [7.5](#) (C.75.0x).

**NOTE:** Patch/iX for the 6.0 and 6.5 releases currently use the same version. However, other files in the fileset used by Patch/iX have different versions for the 6.0 and 6.5 releases.

### instructions for installing patch/ix

1. Move the Patch/iX store-to-disk archive file to your HP3000 using either of the following two methods:

#### download method:

- a. Download the archive file using the appropriate link above.
- b. Move the file "patchix60.store" to the SYS account on your MPE machine.

Welcome, John P. Burke!  
(CA55893)

# 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-   support_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

```
ftp> get ./patchix65.store
200 PORT command successful.
150 Opening BINARY mode data connection for ./patchix65.store (2863872 bytes).
226 Transfer complete.
2863872 bytes received in 17.83 seconds (156.90 Kbytes/sec)
ftp> bye
221 Goodbye.
<SASHA: ,MANAGER.SYS,INSTALL> WED, MAR 12, 2003 11:42 PM </SYS/INSTALL>
[2]:frombyte.hpbin.sys '-b ./patchix65.store PATCH65'
<SASHA: ,MANAGER.SYS,INSTALL> WED, MAR 12, 2003 11:43 PM </SYS/INSTALL>
[3]:file patch65;dev=disc
<SASHA: ,MANAGER.SYS,INSTALL> WED, MAR 12, 2003 11:43 PM </SYS/INSTALL>
[4]:restore *patch65;@.@.@;local;show
    >> TURBO-STORE/RESTORE VERSION C.65.19 B5151AA <<
        (C) 1986 HEWLETT-PACKARD CO.

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
```

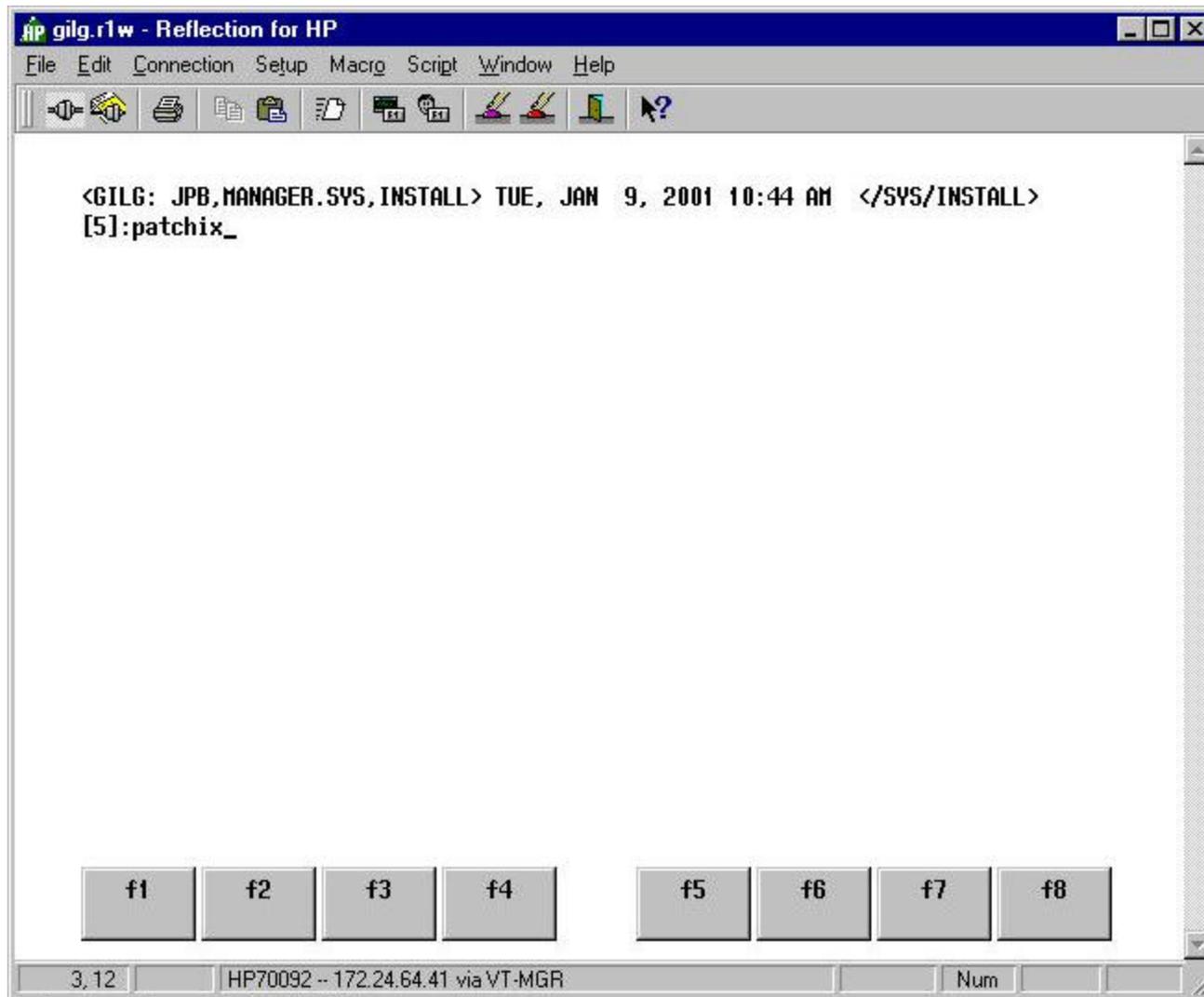
```
<SASHA: ,MANAGER.SYS,INSTALL> WED, MAR 12, 2003 11:44 PM </SYS/INSTALL>
[5]:patchix version
Patch/iX Version B.01.09
<SASHA: ,MANAGER.SYS,INSTALL> WED, MAR 12, 2003 11:44 PM </SYS/INSTALL>
[6]:
```

# Netbase/Shareplex Issues

- Patch/iX
- Stage/iX

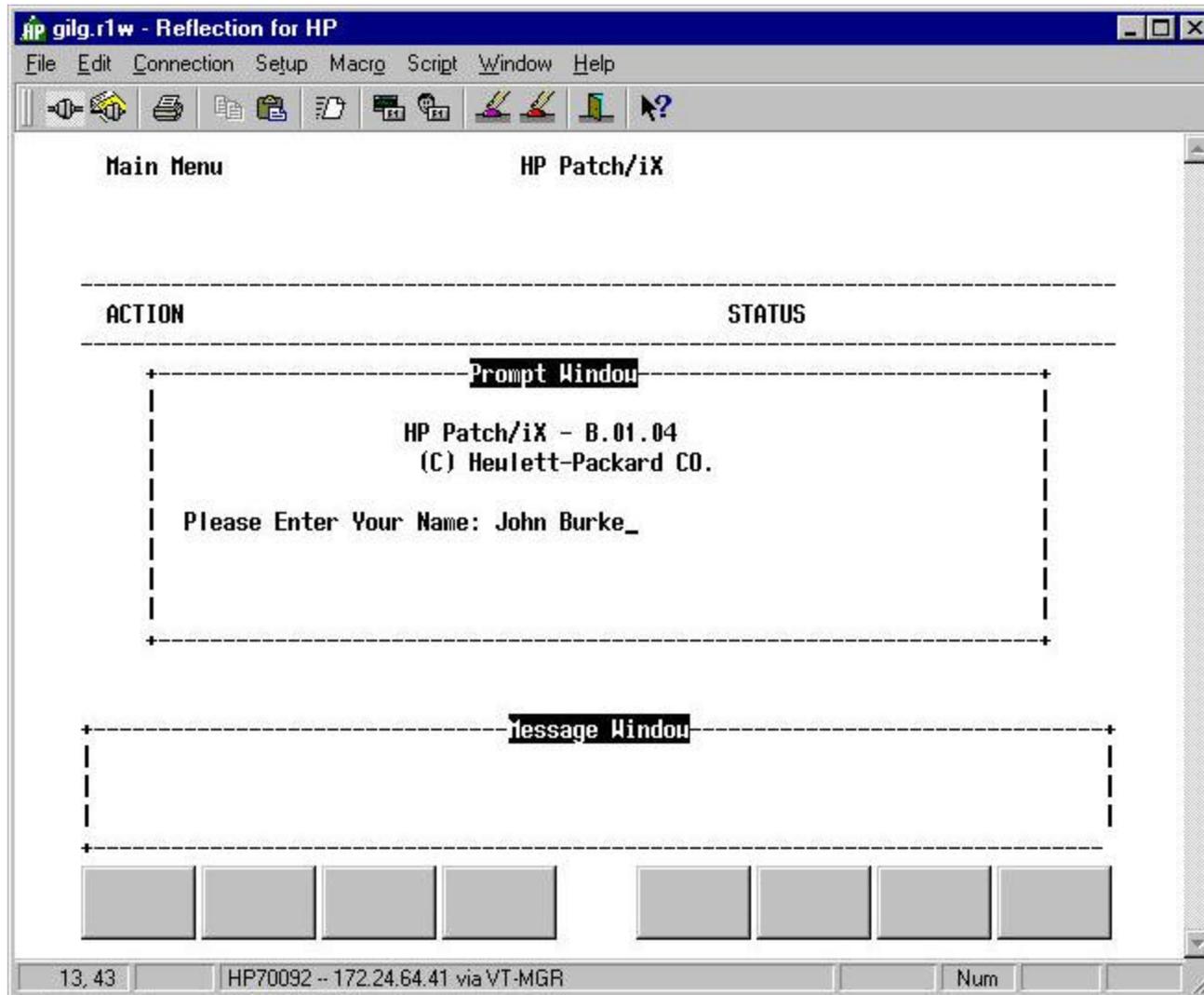
Patch/iX example: MPE/iX 6.0  
PowerPatch 2 applied to an existing  
MPE/iX 6.0 PowerPatch 1 system

# Run Patch/iX



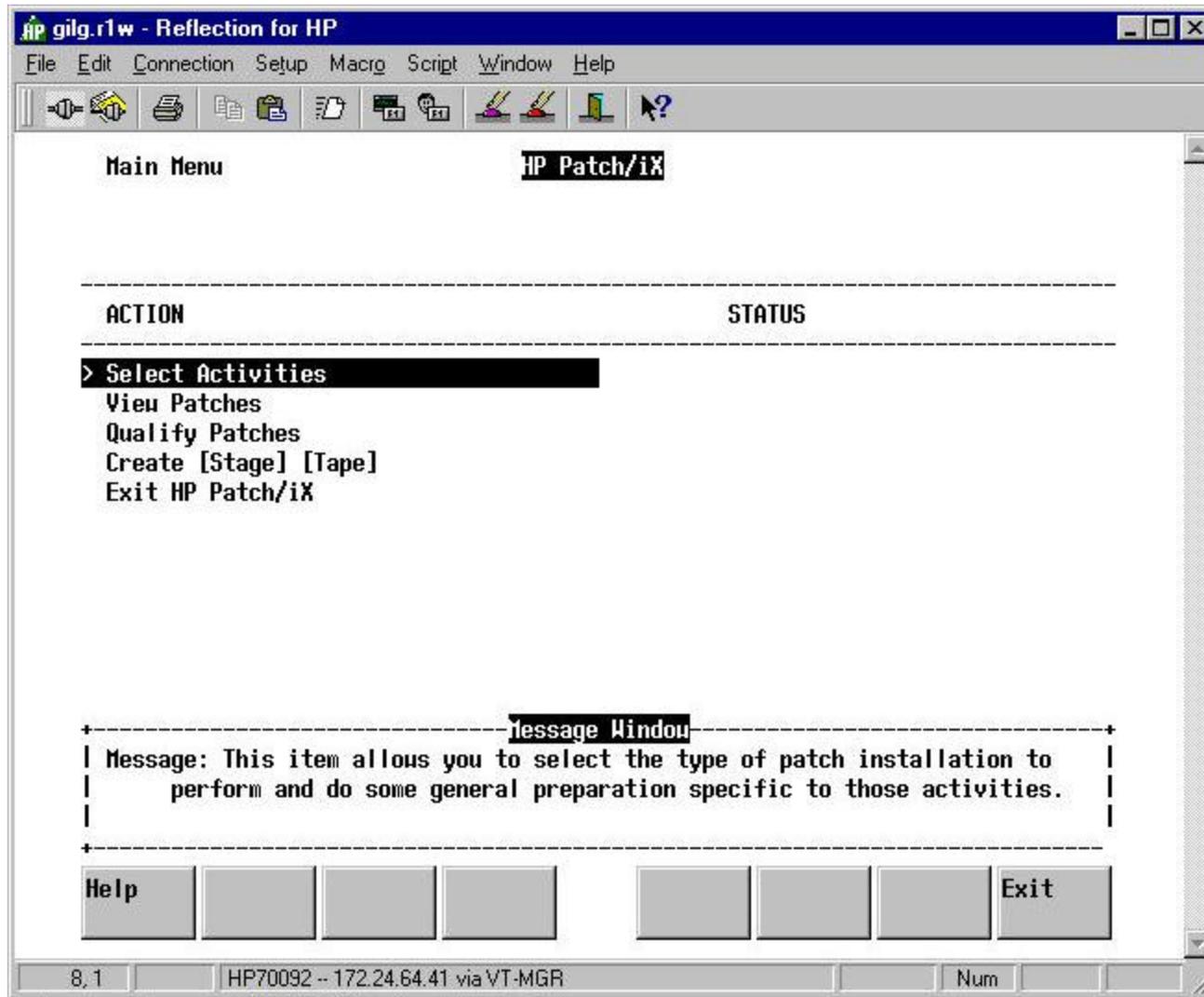
Sign on as “MANAGER.SYS,INSTALL”. Before proceeding, make sure you have the latest version of Patch/iX for your system and that you have validated all tapes. Your PowerPatch or Reactive patch tape will have an appropriate version of Patch/iX or you can download the latest from the ITRC. Patch/iX can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

# Identify this run of Patch/iX



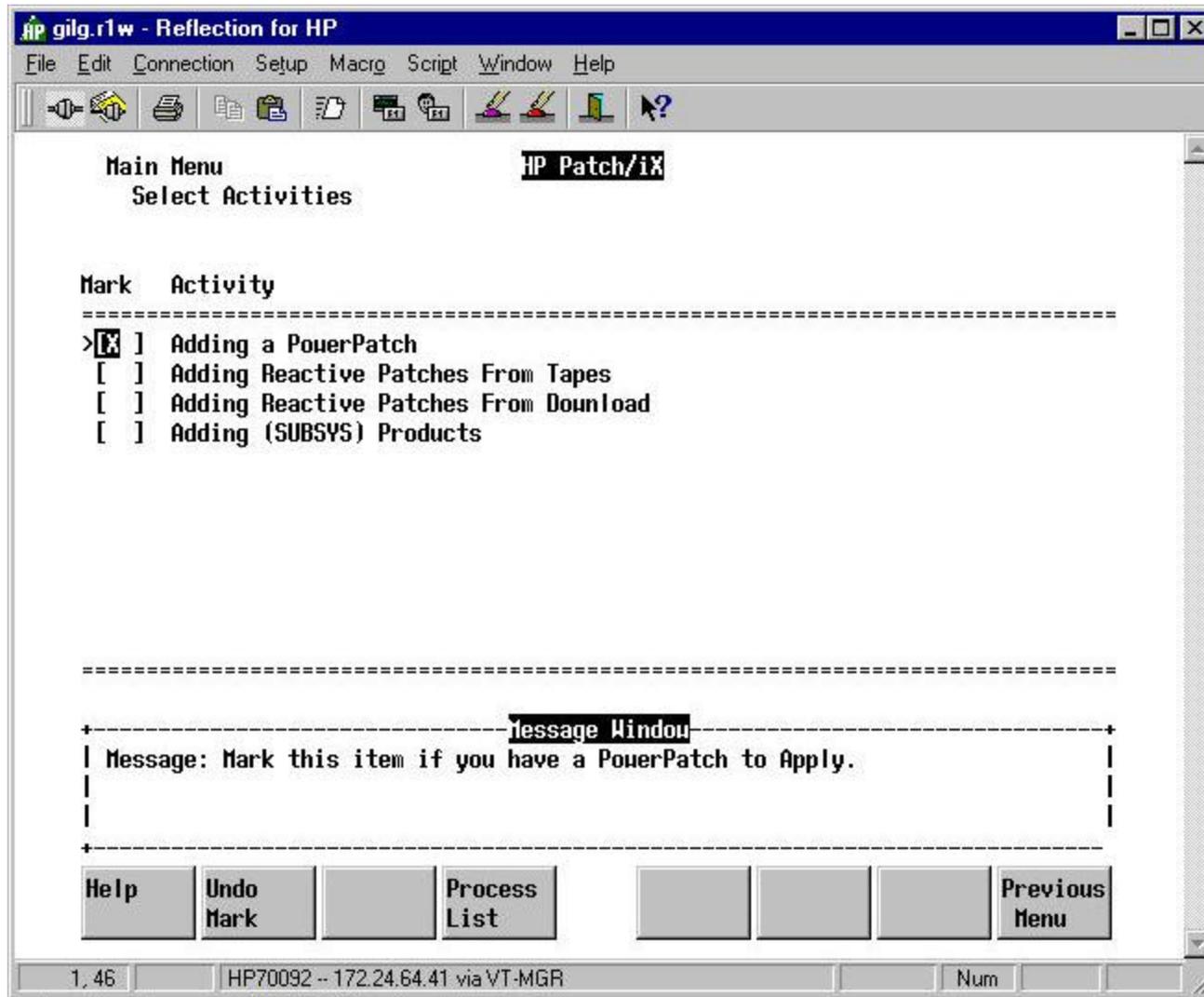
Enter your name here to identify this run of Patch/iX.

# Main Menu - Select Activities



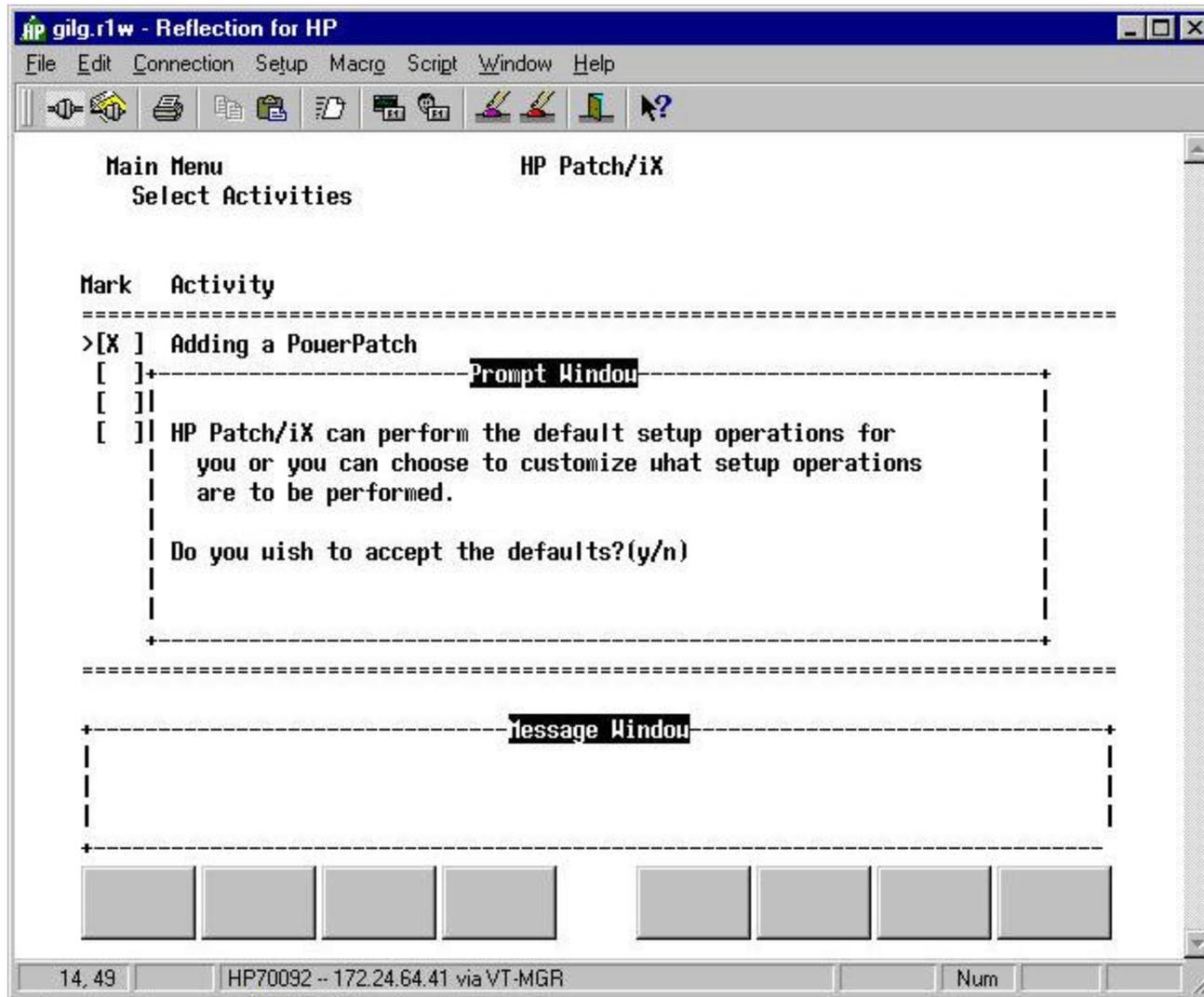
This is where you tell Patch/iX what you want to do. Hit RETURN to select this menu item.

# Select Activity



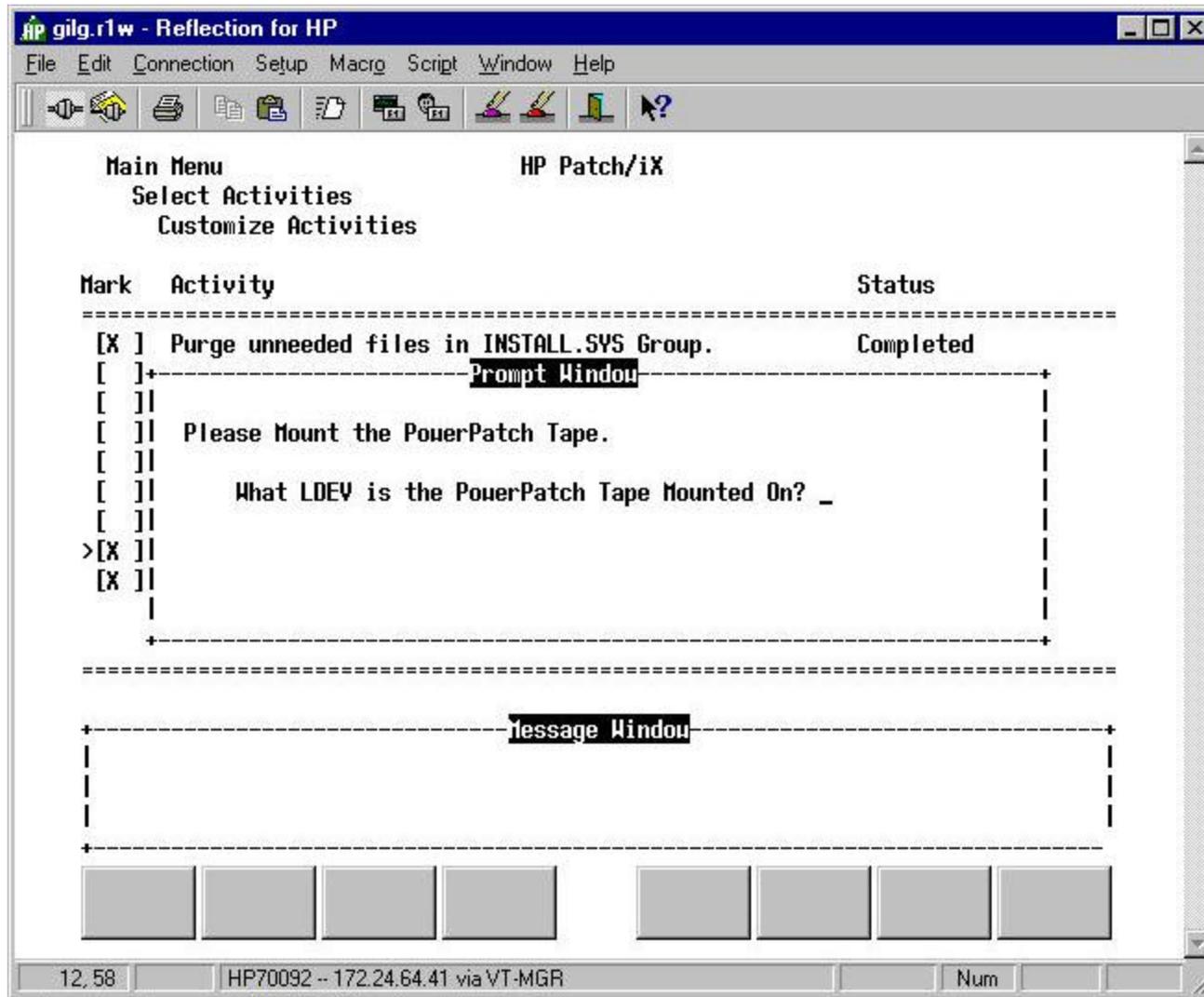
Press F2 to “mark” “Adding a PowerPatch” and then press F4 to process the list of activities. Note that you can apply a PowerPatch, add reactive patches and add SUBSYS products in one step. For now, SUBSYS products can not be staged and all PowerPatches to date have contained patches that can not be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

# Accept default setup?



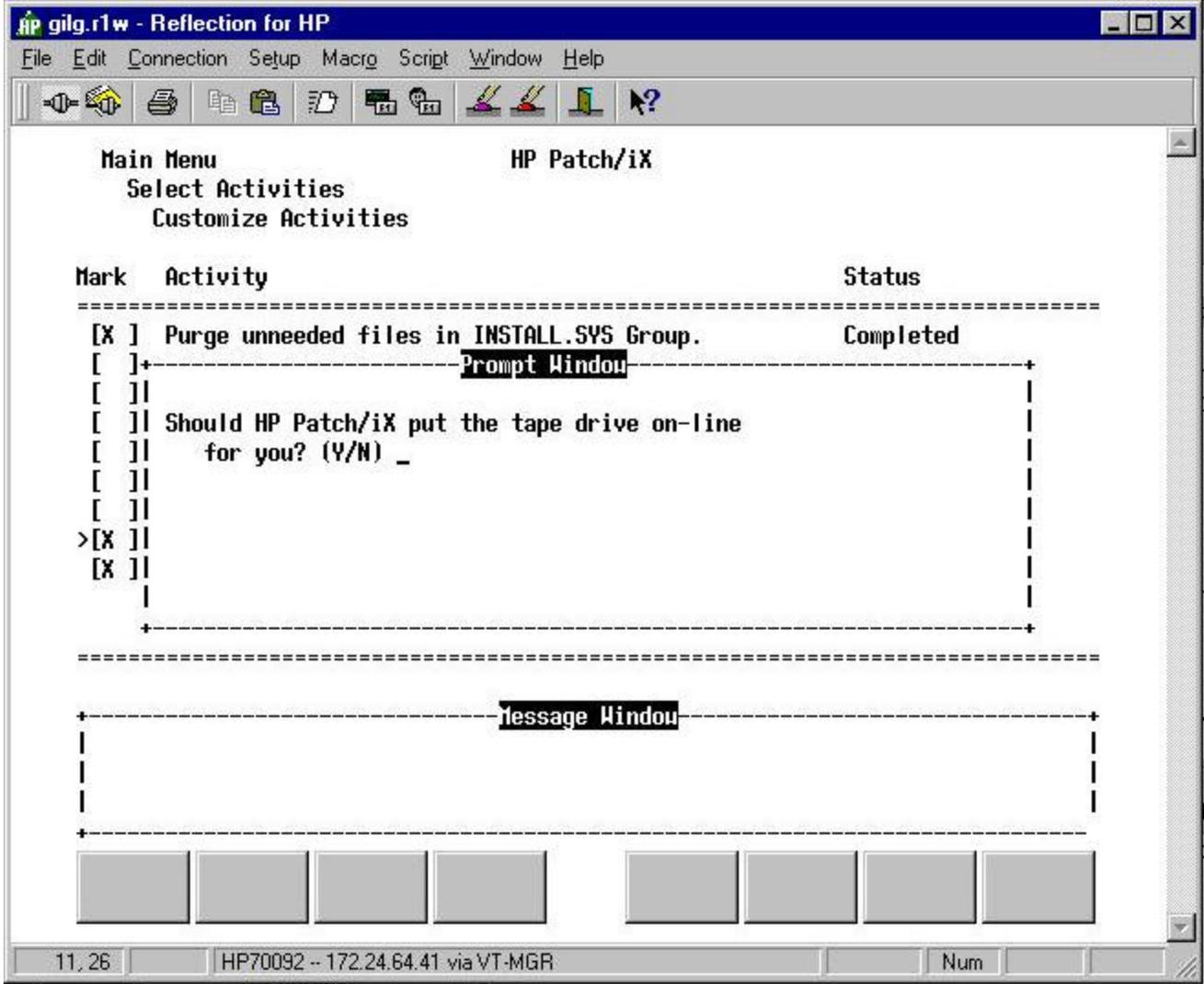
Generally speaking, you can say “yes” if you are just applying a PowerPatch. There will be more discussion on this in the section of the presentation on using Patch/iX and Stage/iX to apply a Reactive Patch.

# Specify the location of PowerPatch tape



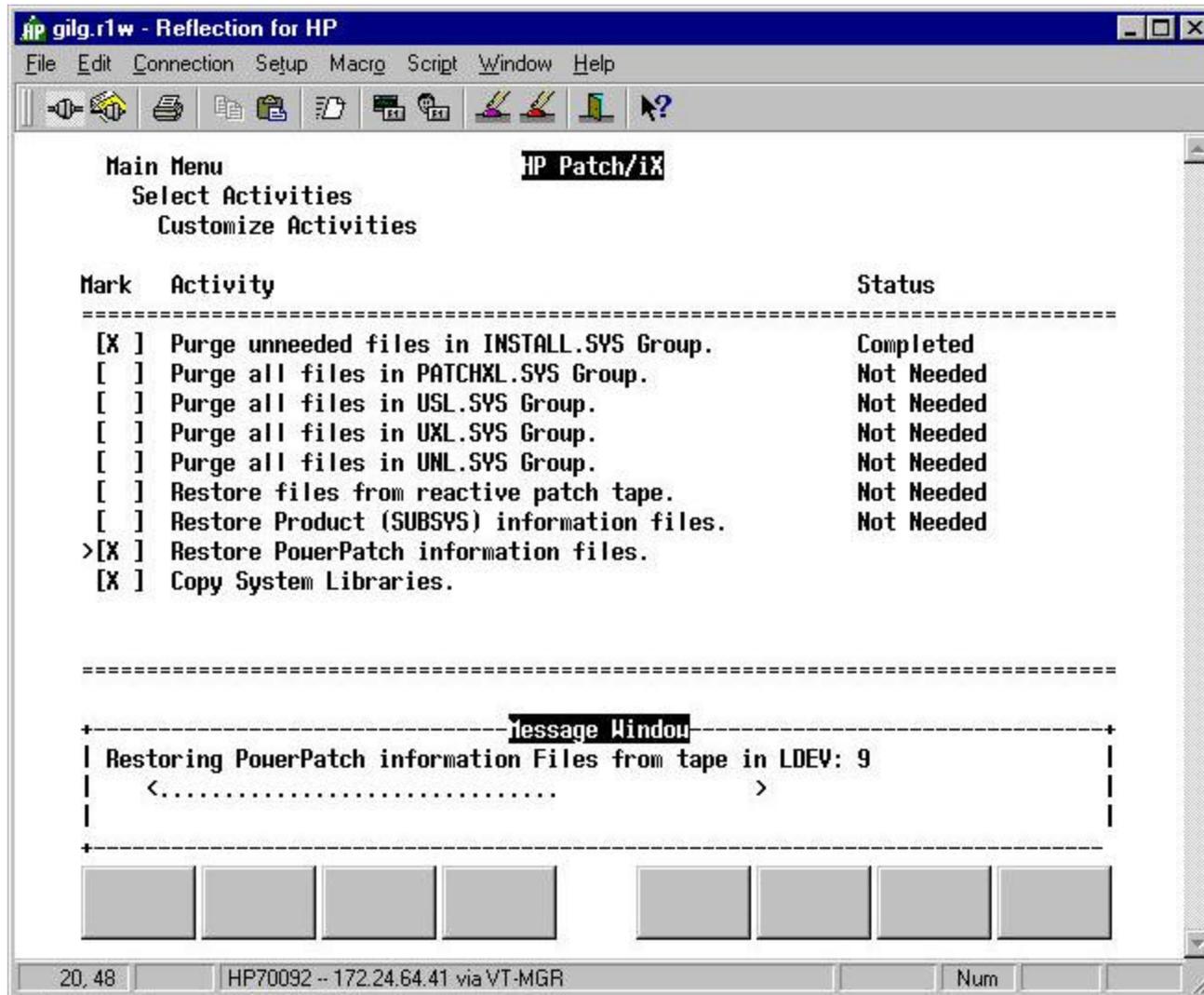
If you have the good fortune to have multiple tape drives, put the PowerPatch tape in a drive other than the boot tape drive. This will save you some time. Always put the tape you are going to use for the CSLT in the boot tape drive. Why?

# Is the tape online?



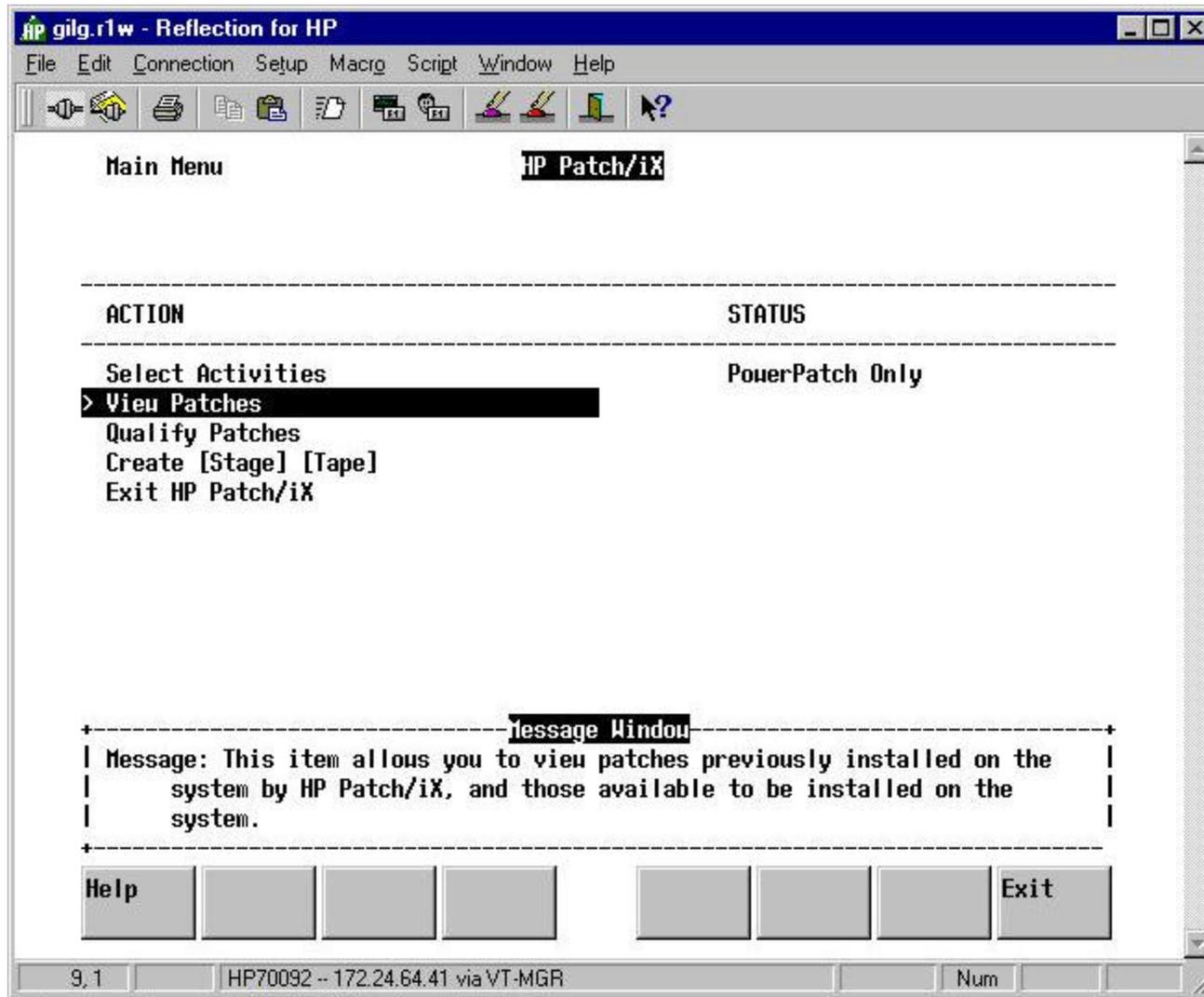
Patch/iX will put the tape online for you if it is not already online.

# Performing the setup activities



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.

# Main Menu - View Patches



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.

# Example of View Patches

HP gilg.r1w - Reflection for HP

File Edit Connection Setup Macro Script Window Help

Main Menu **HP Patch/iX** Filter(1) = Installed Patches

View Patches

Patch ID	Origin	Date	Installed By
>ATCKXP2C	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
BBRKXT2B	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
BRWKF3B	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
BWRKXG7B	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
DTSFDF5A	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
INFKXH6B	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
LNKXQ9B	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
MPEKXF7C	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
MPEKXH0E	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
MPEKXN1C	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john
MPEKXP4A	C6001 P	SAT, JAN 22, 2000, 3:10 PM	john

-----+dn

**Message Window**

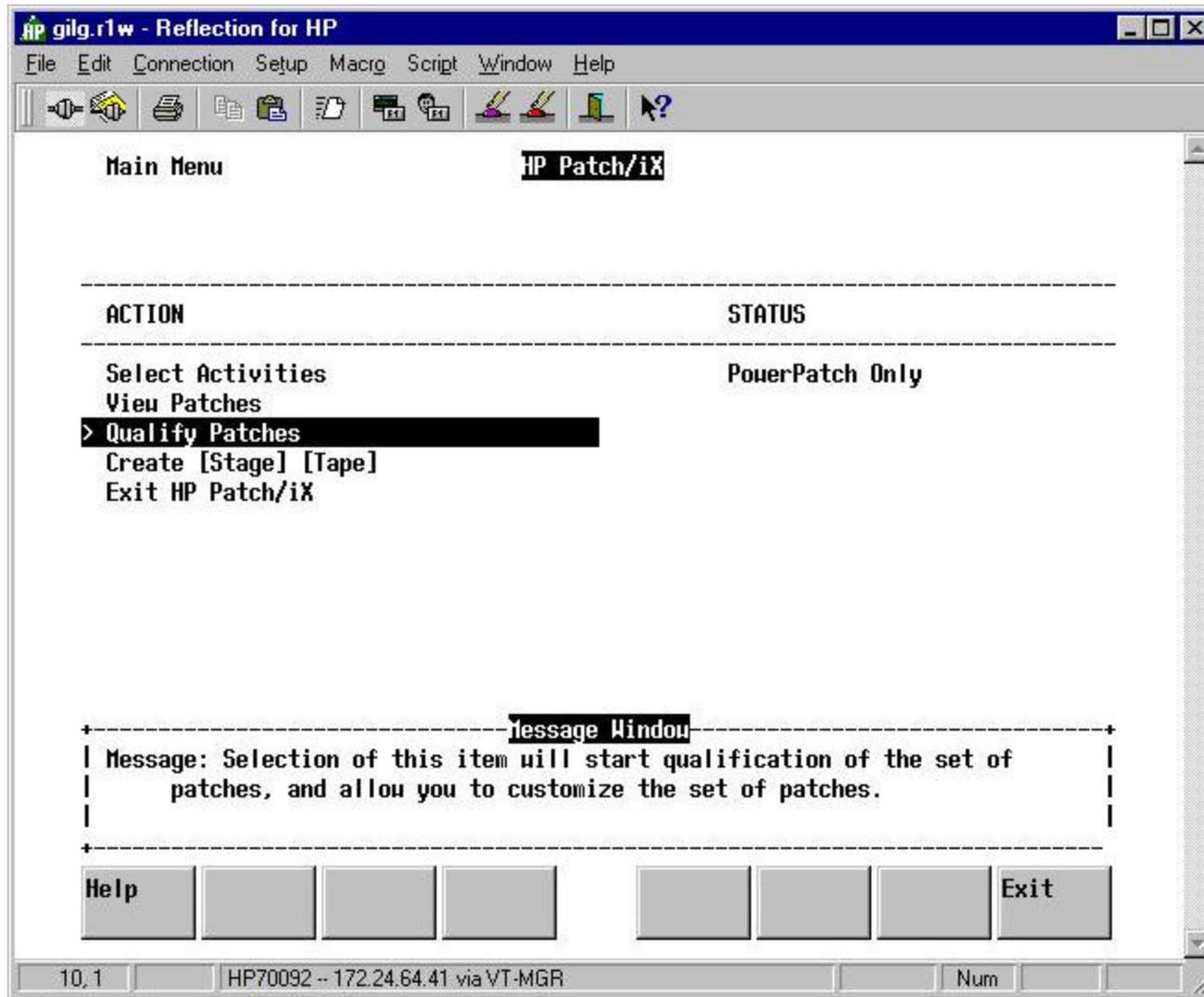
Description:  
Big performance degradation when user update IMAGE/SQL to G2 version.

Help Previous Filter Next Filter Previous Menu

7.1 HP70092 -- 172.24.64.41 via VT-MGR Num

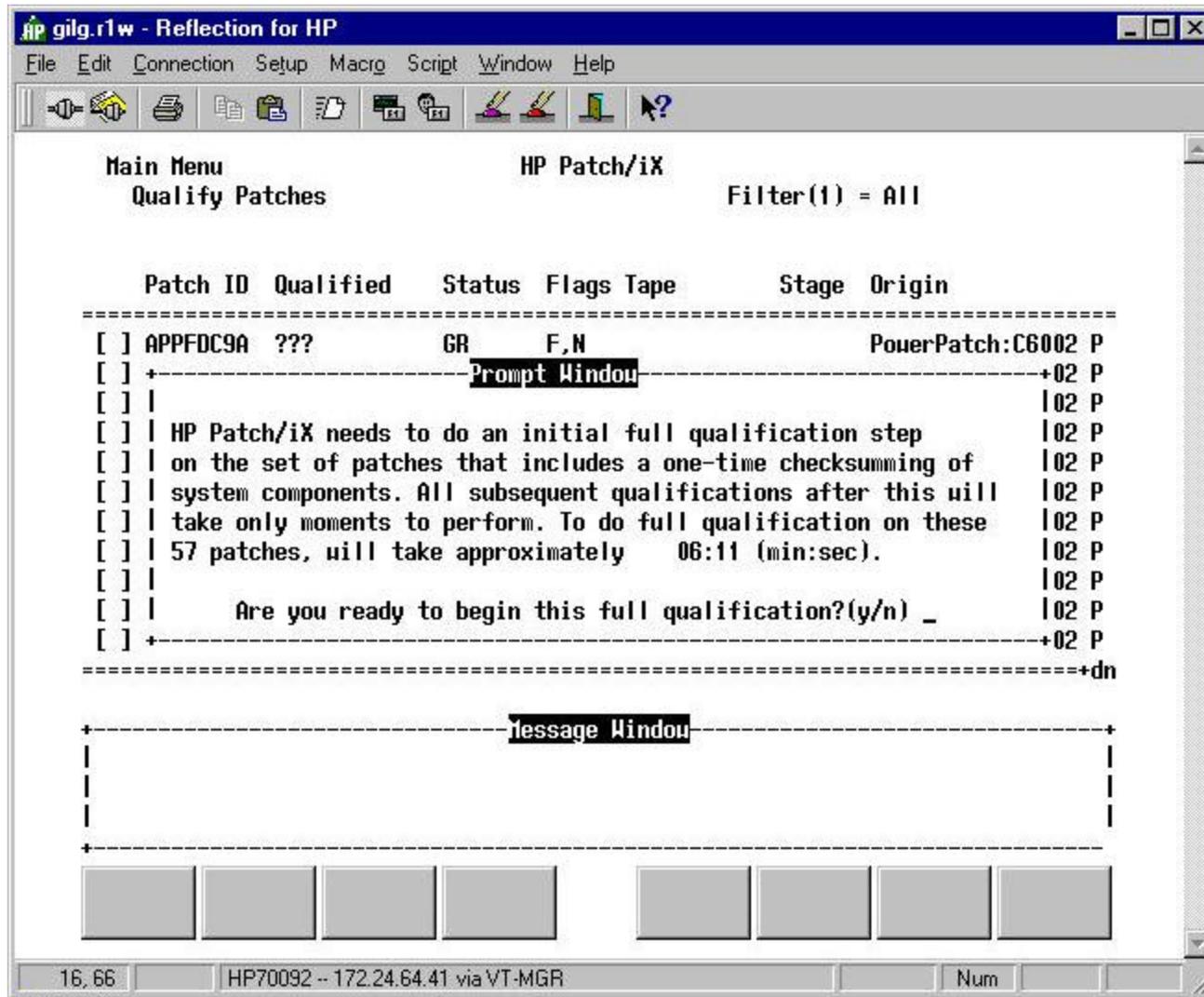
This is showing the MPE/iX PowerPatch 1 patches that were applied to this system on January 22, 2000. Make a note of ATCKXP2C for later.

# Main Menu - Qualify Patches



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

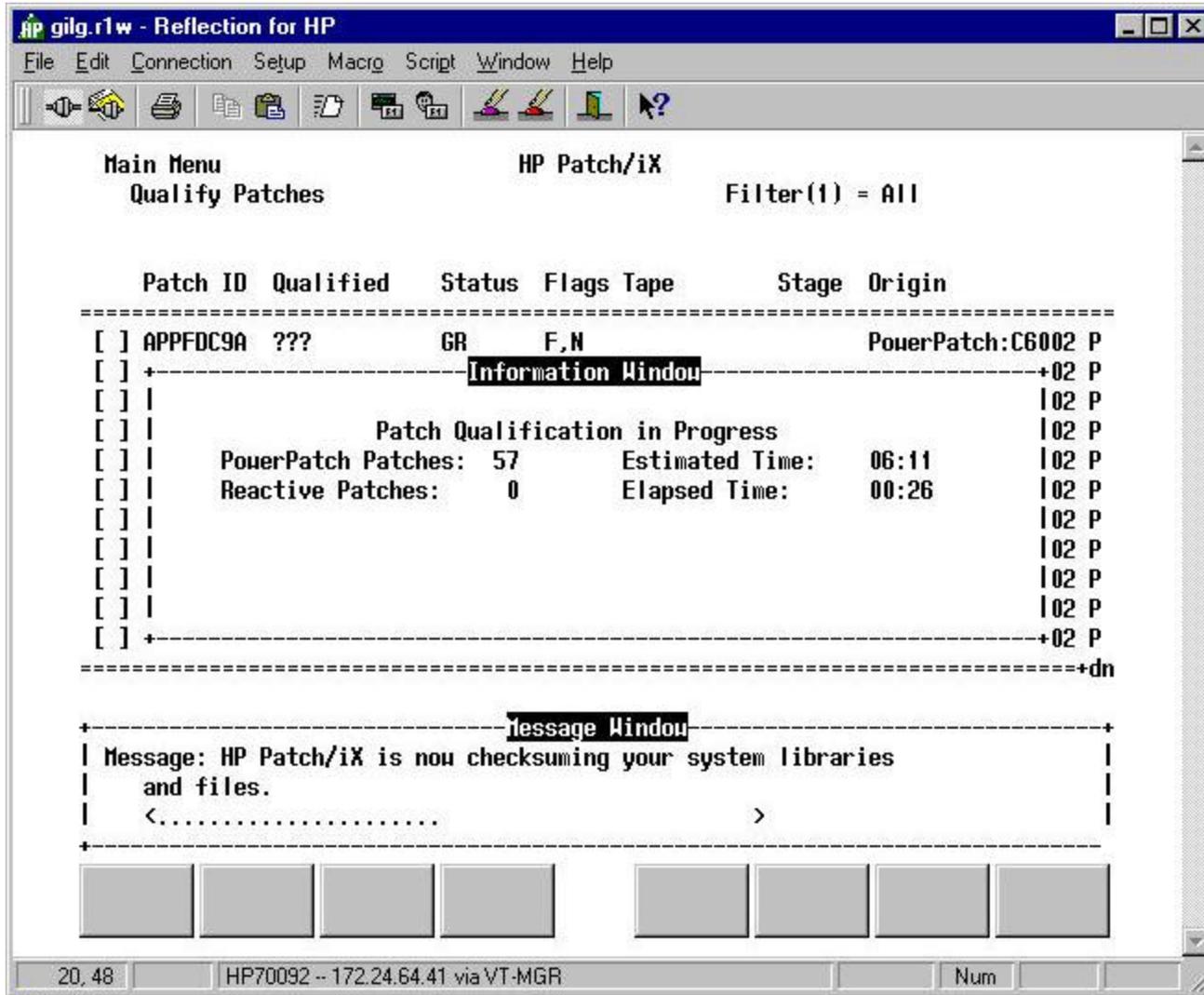
# Ready to proceed with the qualification?



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.



# Patch Qualification Process Screen



Now go get that cup of coffee.

# Qualify Individual Patches Screen

HP Patch/iX  
Filter(1) = All

Patch ID	Qualified	Status	Flags	Tape	Stage	Origin
> [ ] APPFDC9A	No	GR	F,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] ARMKX45C	Yes	GR	E,N	Store-Only	No	PouerPatch:C6002 P
[ ] ATCKXP2C*	No	GR	E,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] BBRKXU7B	Yes	GR	A,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] BR0LX21B	No	GR	E,N	Store-Only	Yes	PouerPatch:C6002 P
[ ] BRMKXX6B	Yes	GR	E,N	Store-Only	Yes	PouerPatch:C6002 P
[ ] BWRKXX7B	Yes	GR	E,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] DBPLX04B	No	GR	E,N	Store-Only	Yes	PouerPatch: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

Message Window

Description: (Press <Return> for detailed information on patch APPFDC9A)

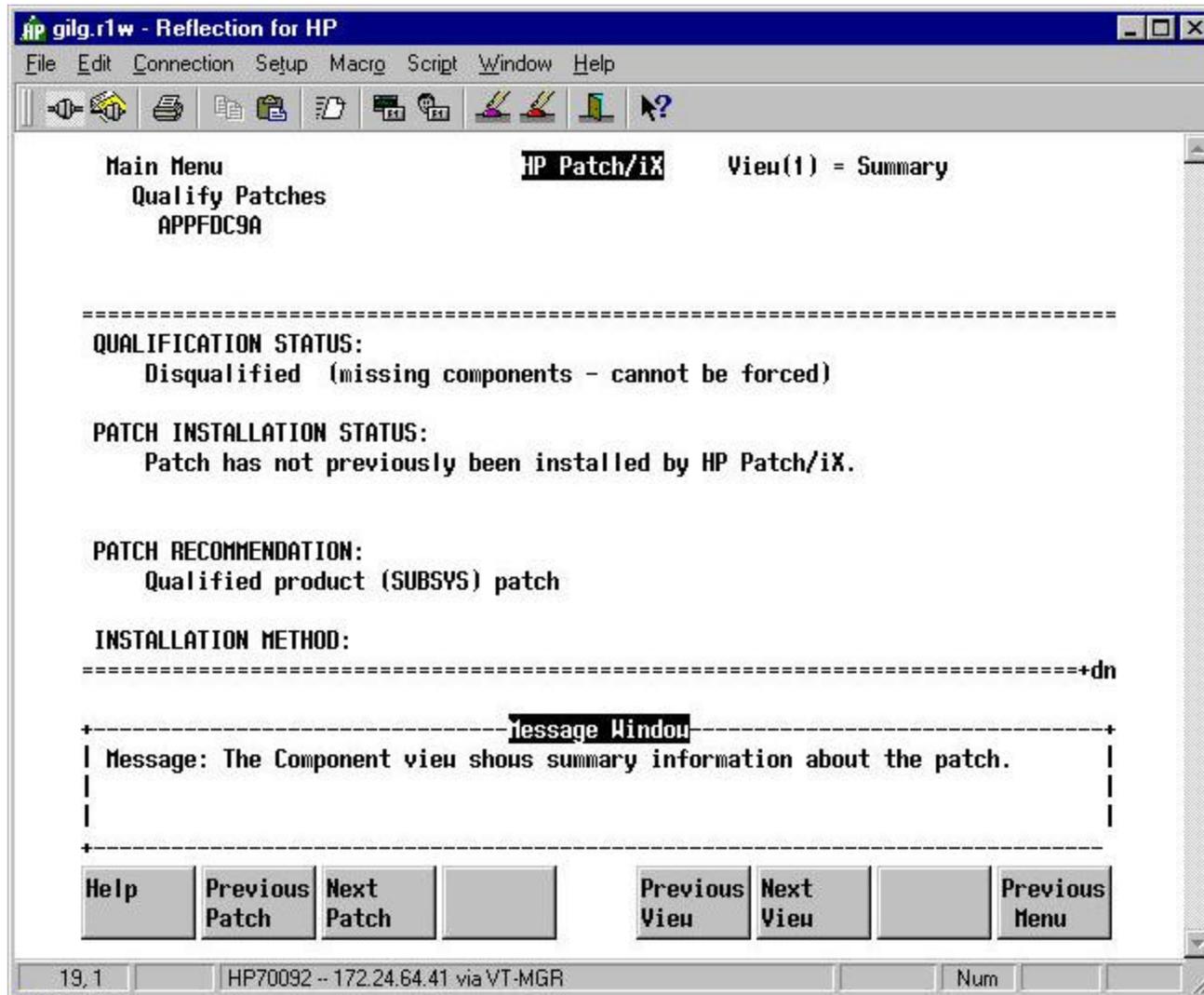
APPC subsystem start error 1034 due to validation error - APPCVALERR23

Buttons: Help, Veto, Force, Process Changes, Previous Filter, Next Filter, Previous Menu

Status Bar: 7.1, HP70092 -- 172.24.64.41 via VT-MGR, Num

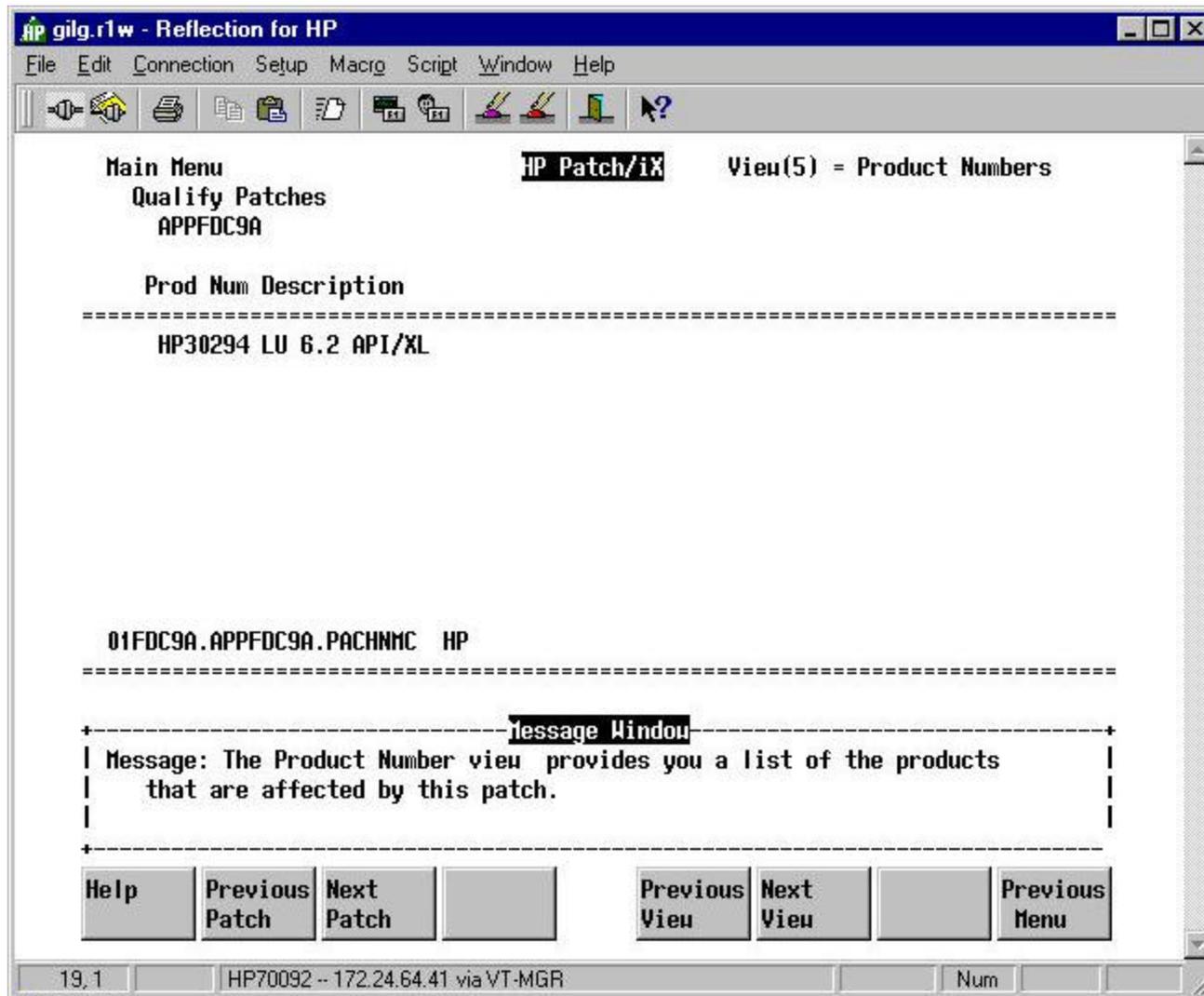
This is where you have to do some work. You need to check every patch that did not qualify and determine why it did not qualify. Occasionally, you may need to force a patch that does not qualify after consulting documentation and/or your support provider. Let's investigate why this first patch did not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

# View(1) = Summary



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 look at View(5), Product Numbers.

# View(5) = Product Numbers



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.

# Qualify Individual Patches Screen

HP gilg.r1w - Reflection for HP

File Edit Connection Setup Macro Script Window Help

Main Menu **HP Patch/iX** Filter(1) = All

Qualify Patches

Patch ID	Qualified	Status	Flags	Tape	Stage	Origin
[ ] APPFDC9A	No	GR	F,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] ARMKXW5C	Yes	GR	E,N	Store-Only	No	PouerPatch:C6002 P
>[ ] <b>ATCKXP2C*</b>	No	GR	E,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] BBRKXU7B	Yes	GR	A,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] BR0LX21B	No	GR	E,N	Store-Only	Yes	PouerPatch:C6002 P
[ ] BRWKXX6B	Yes	GR	E,N	Store-Only	Yes	PouerPatch:C6002 P
[ ] BURKXX7B	Yes	GR	E,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] DBPLX04B	No	GR	E,N	Store-Only	Yes	PouerPatch: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

-----+dn

**Message Window**

Description: (Press <Return> for detailed information on patch ATCKXP2C)

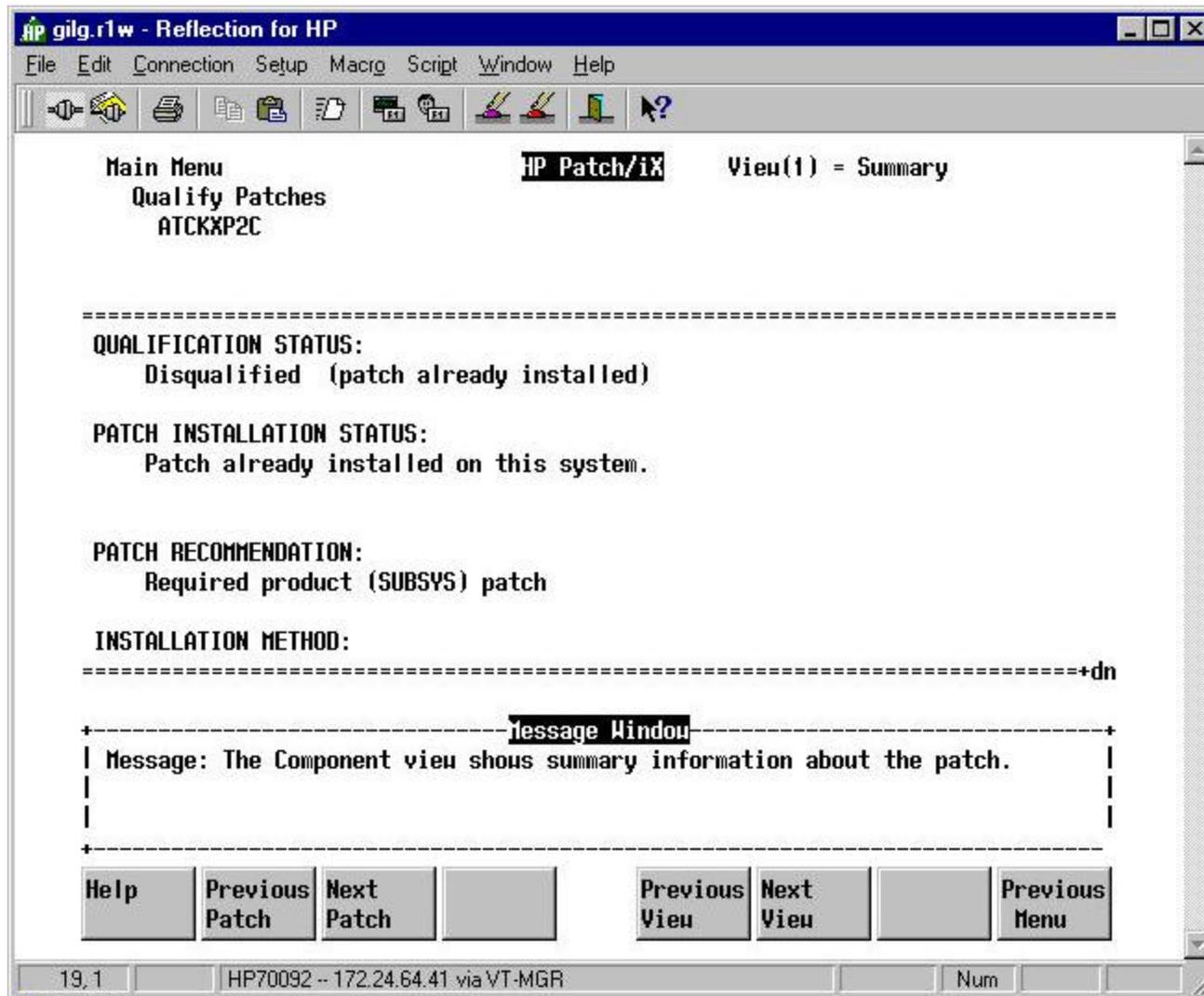
Big performance degradation when user update IMAGE/SQL to G2 version.

Help Veto Force Process Changes Previous Filter Next Filter Previous Menu

7.1 HP70092 -- 172.24.64.41 via VT-MGR Num

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



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

# Qualify Individual Patches Screen

HP gilg.r1w - Reflection for HP

File Edit Connection Setup Macro Script Window Help

Main Menu **HP Patch/iX** Filter(1) = All

Qualify Patches

Patch ID	Qualified	Status	Flags	Tape	Stage	Origin
[ ] APPFDC9A	No	GR	F,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] ARMKXW5C	Yes	GR	E,N	Store-Only	No	PouerPatch:C6002 P
>[ ] <b>ATCKXP2C*</b>	No	GR	E,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] BBRKXU7B	Yes	GR	A,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] BR0LX21B	No	GR	E,N	Store-Only	Yes	PouerPatch:C6002 P
[ ] BRWKXX6B	Yes	GR	E,N	Store-Only	Yes	PouerPatch:C6002 P
[ ] BURKXX7B	Yes	GR	E,N	CSLT/Store	Yes	PouerPatch:C6002 P
[ ] DBPLX04B	No	GR	E,N	Store-Only	Yes	PouerPatch: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

-----+dn

**Message Window**

Description: (Press <Return> for detailed information on patch ATCKXP2C)

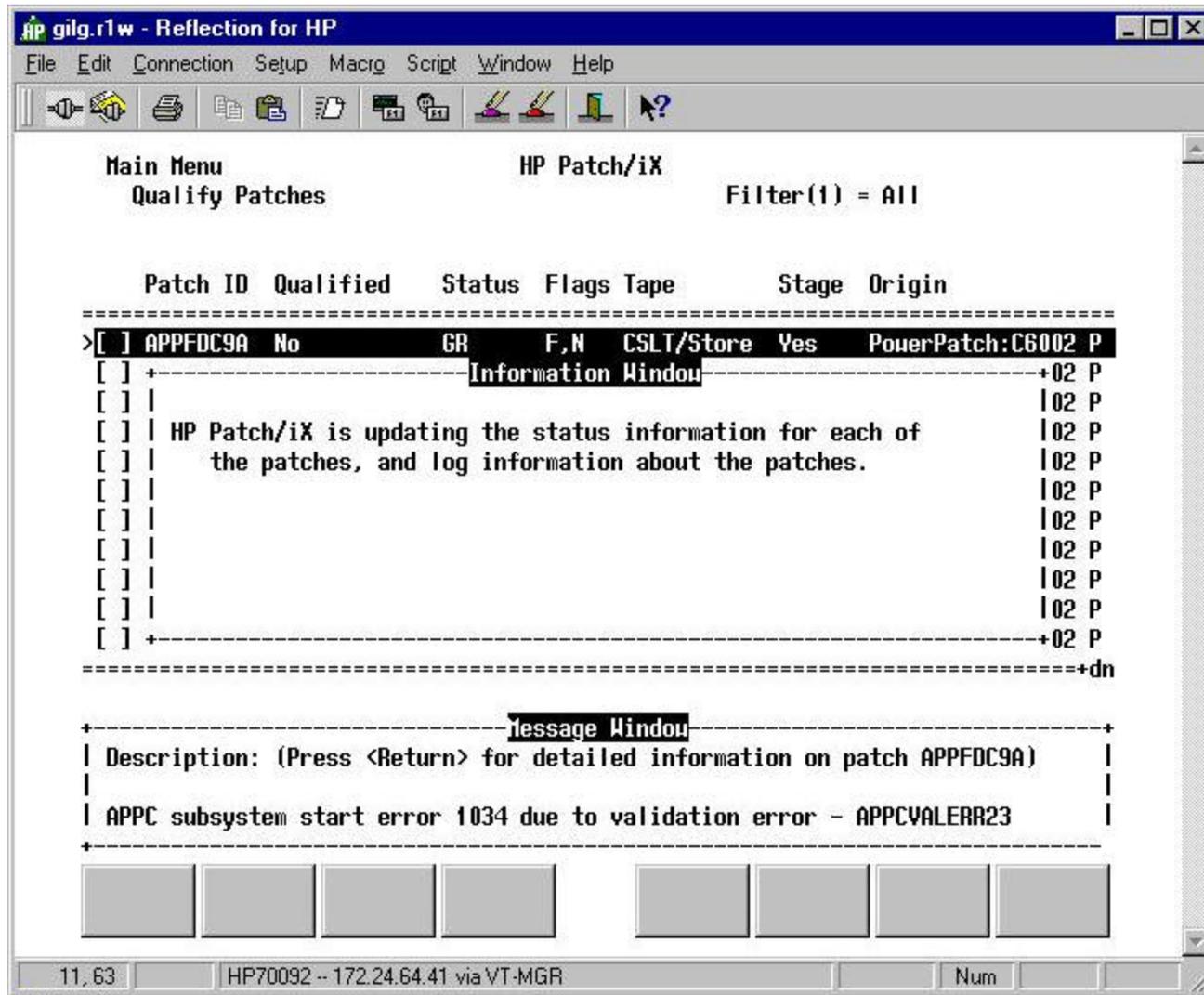
Big performance degradation when user update IMAGE/SQL to G2 version.

Help Veto Force Process Changes Previous Filter Next Filter Previous Menu

7.1 HP70092 -- 172.24.64.41 via VT-MGR Num

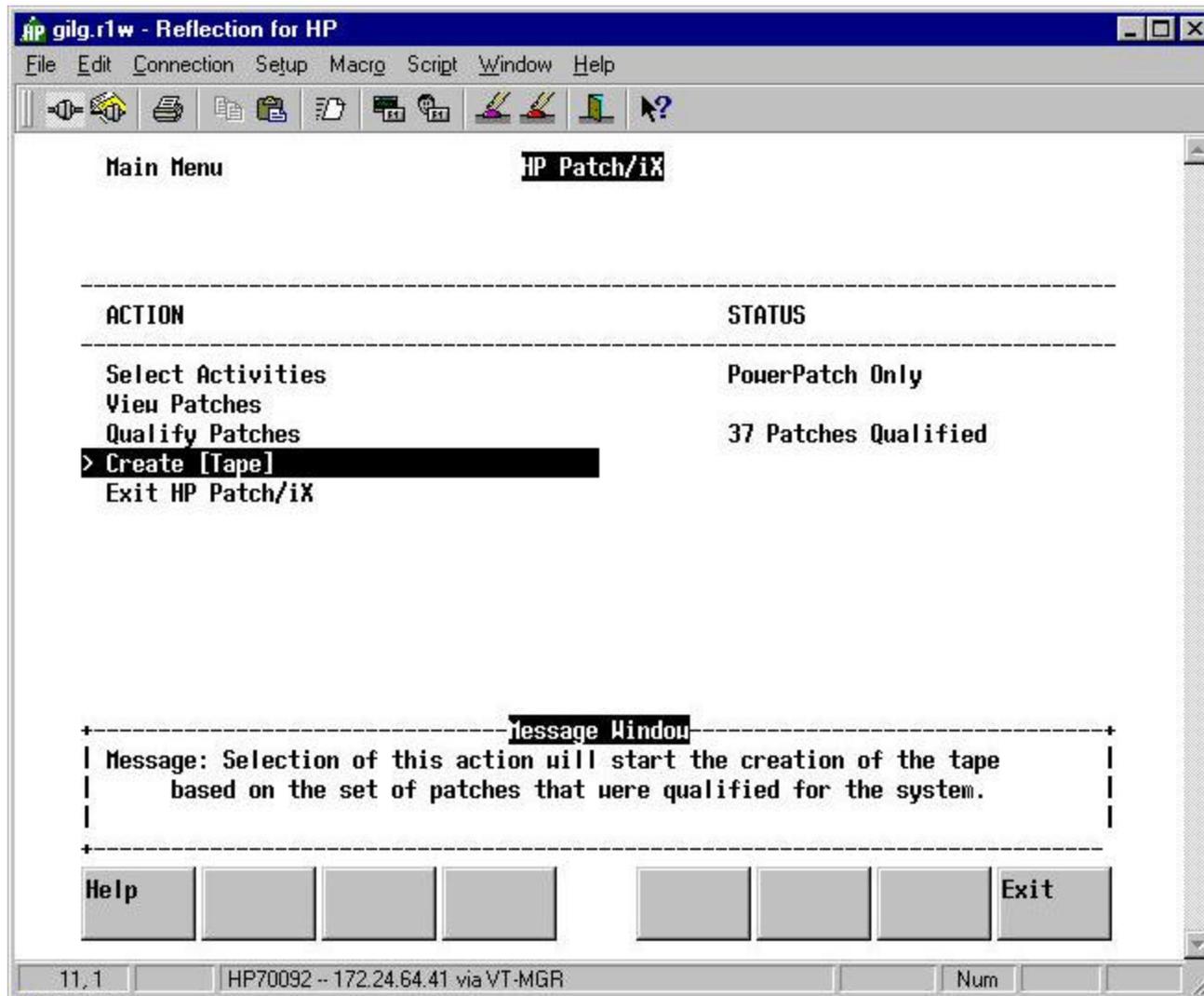
Let's assume we've checked everything and depress F4 (Process Changes), then F8 (Previous Menu).

# Process Qualified Patches



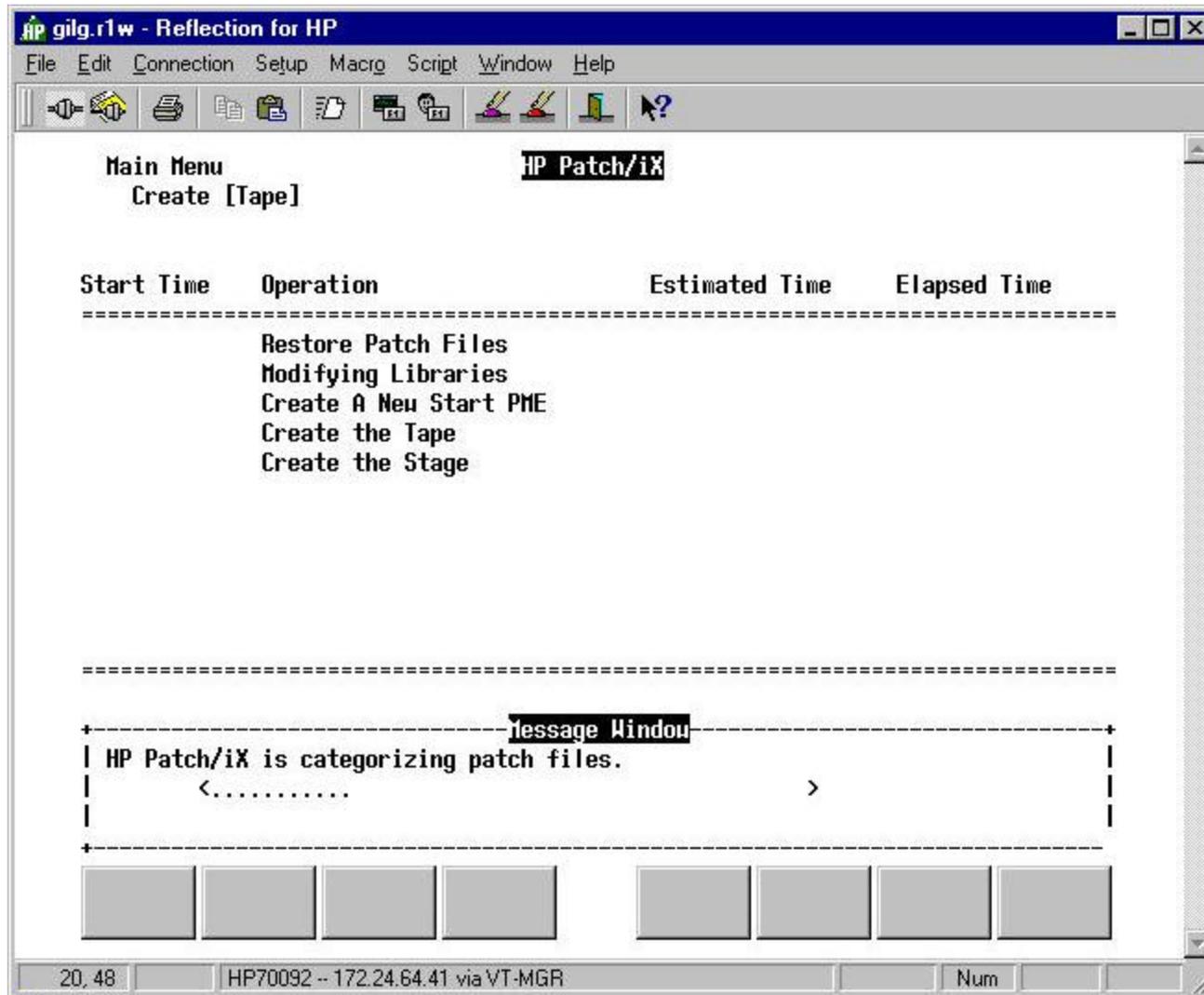
This only takes a few moments. If you blink, you miss this screen.

# Main Menu - Create Tape

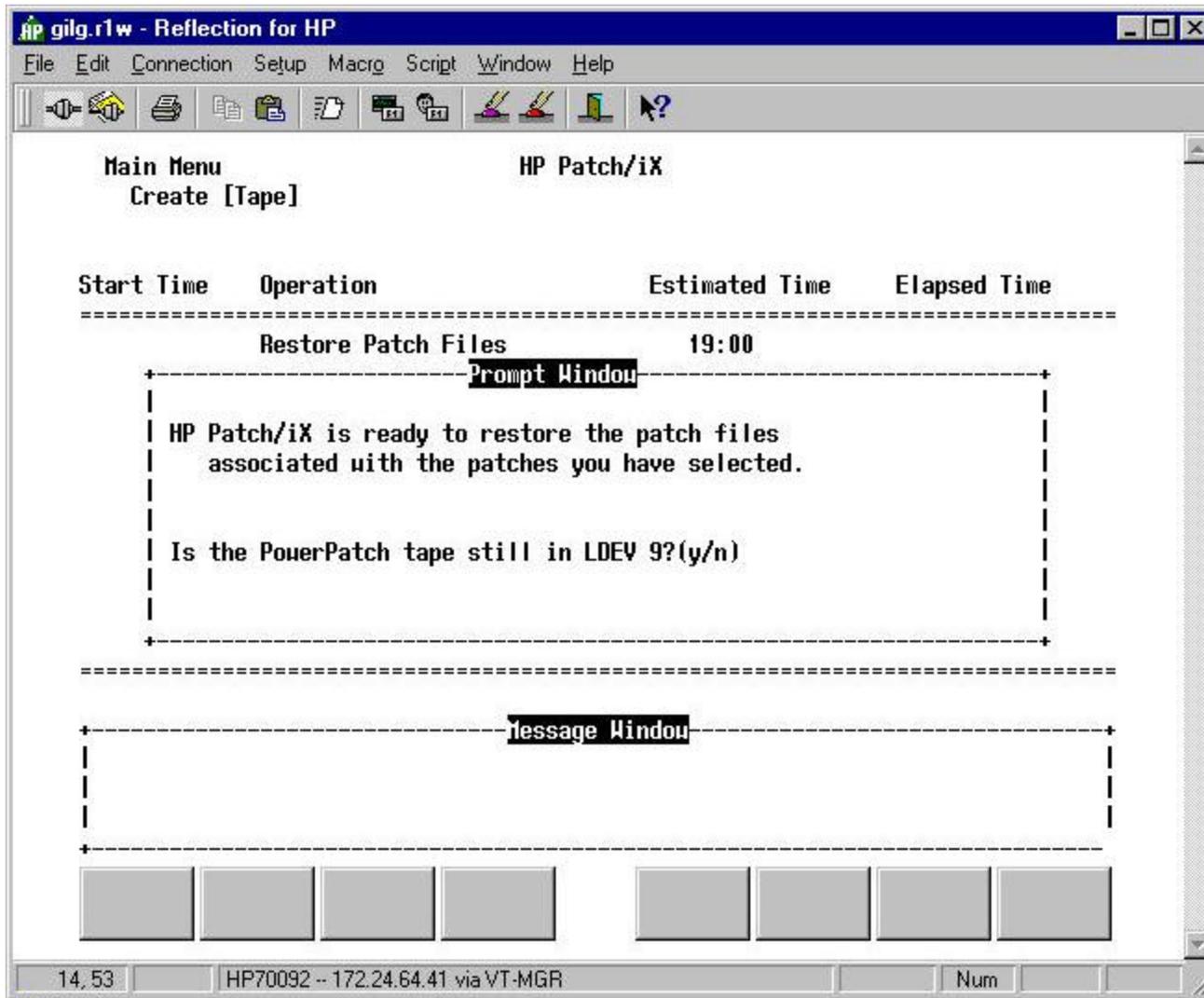


Ready now to create the CSLT. After a few setup questions, you'll be able to turn your attention to other tasks while the CSLT is created.

# Create Tape Tasks

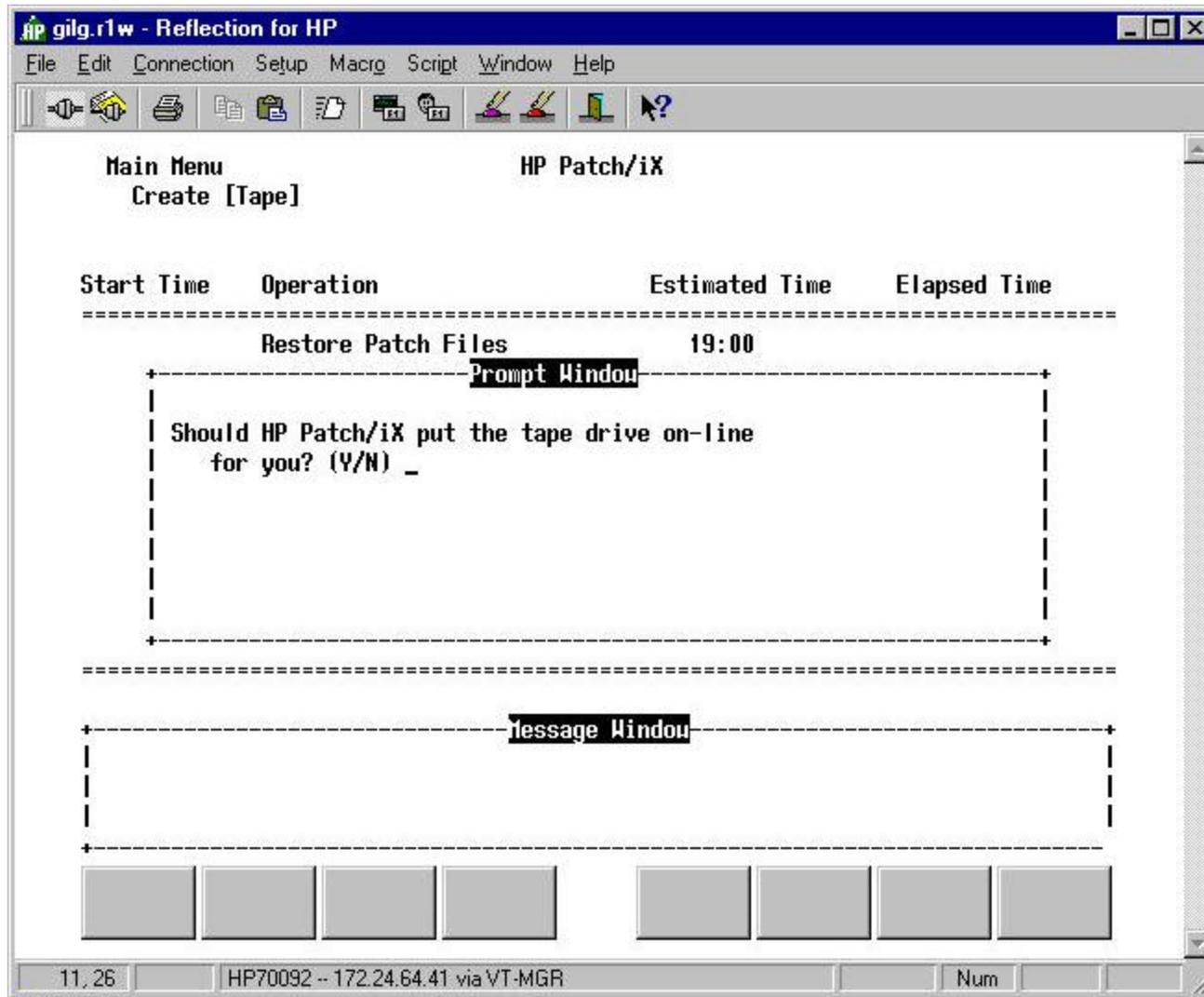


# Where is the PowerPatch tape?



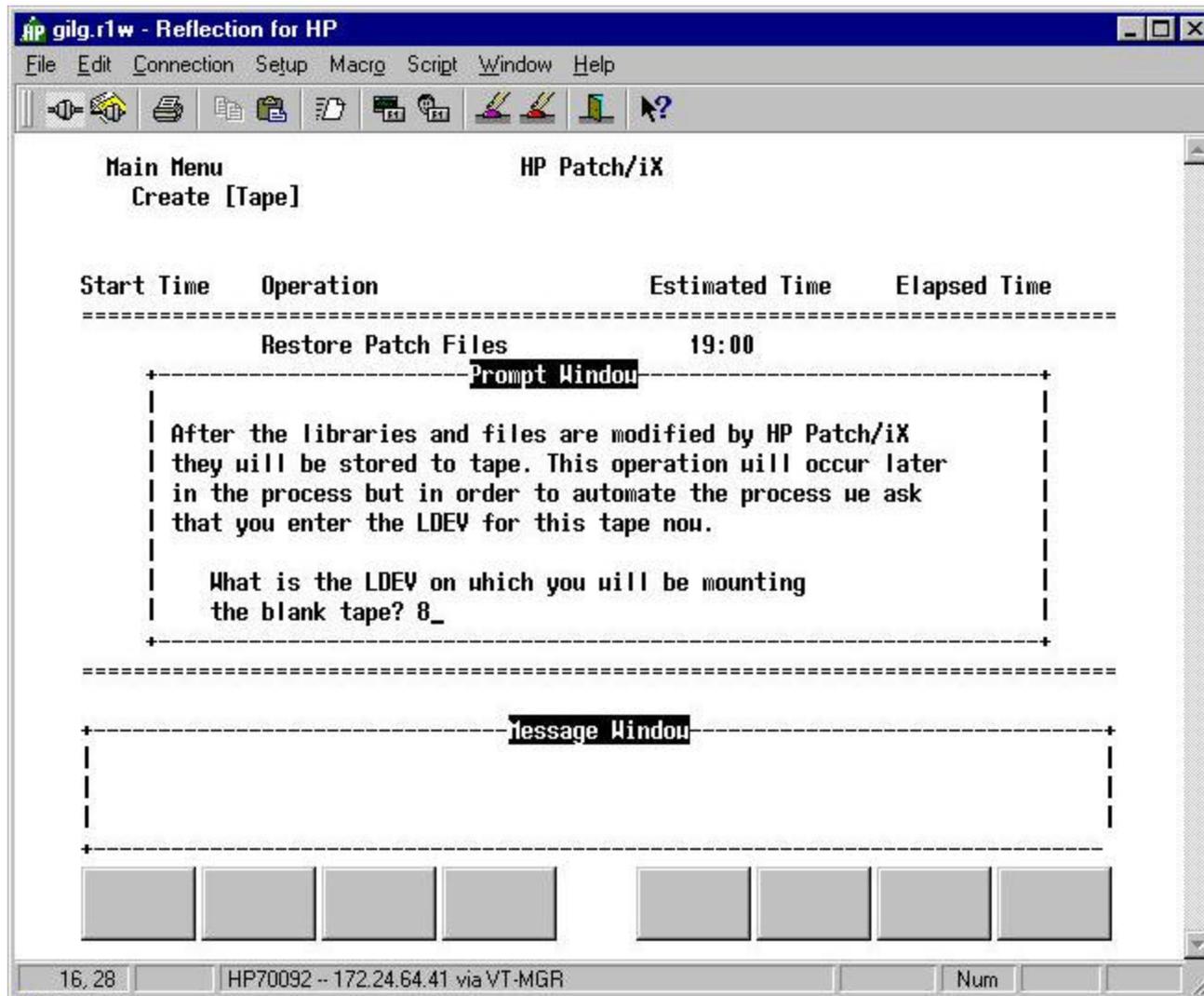
This is where it is really convenient to have multiple tape drives.

# Put it on line?

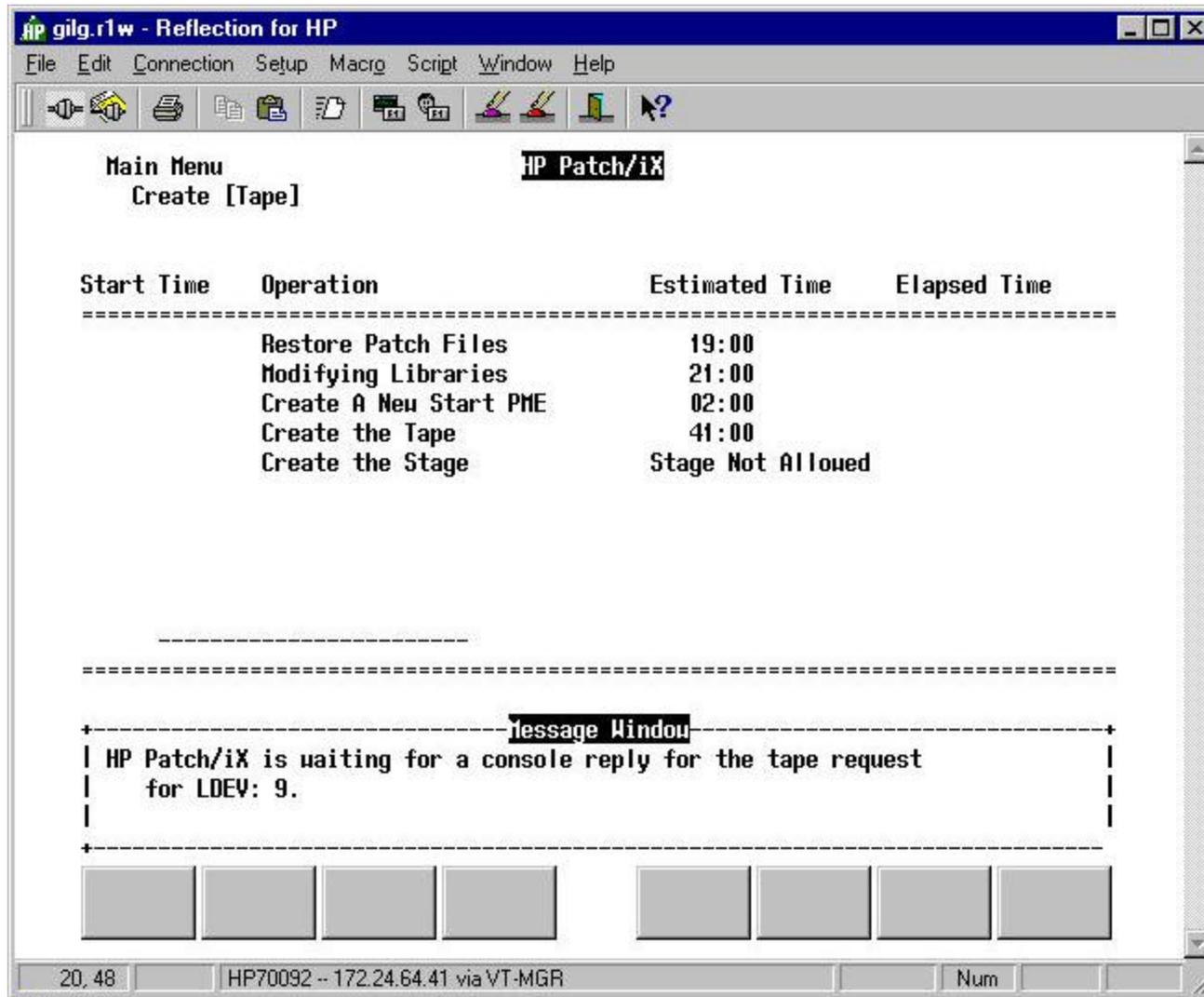


You don't even have to get up from your desk.

# Where will the CSLT tape be mounted?

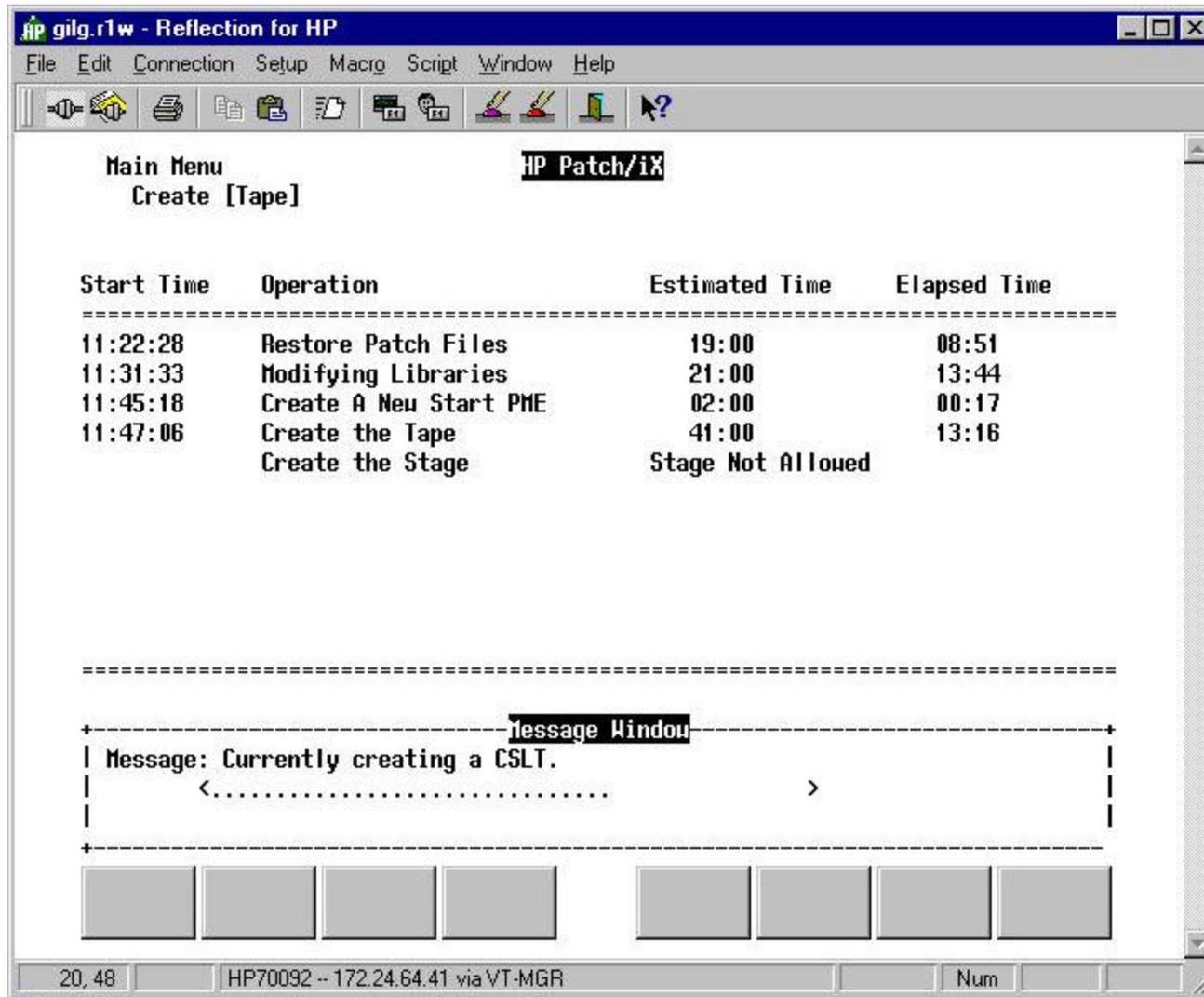


# Create tape tasks with time estimates



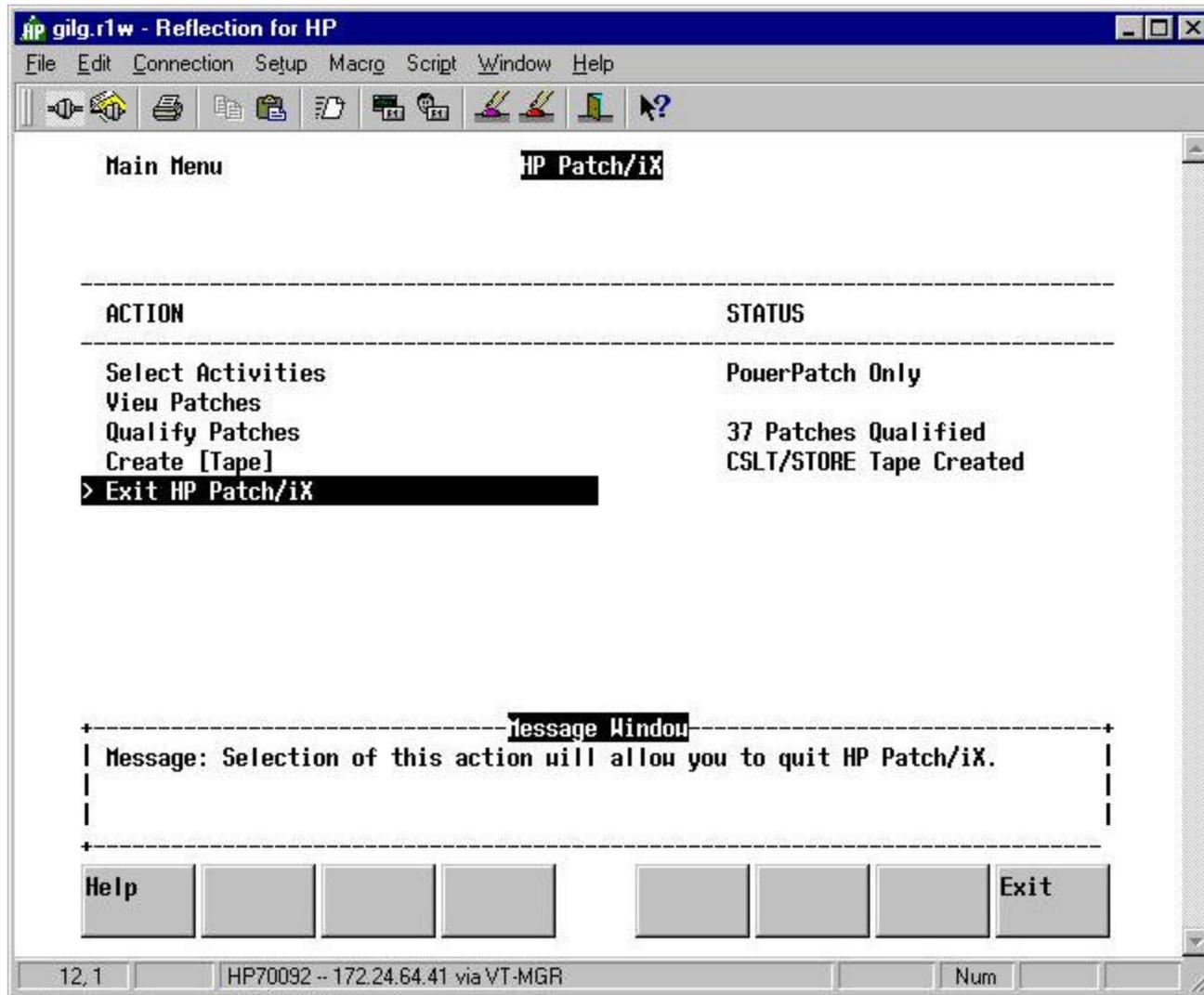
Again, Patch/iX graciously estimates the time required for each step. All you have to do now (if using multiple tape drives, is watch out for and reply to tape requests.

# Creating the CSLT tape



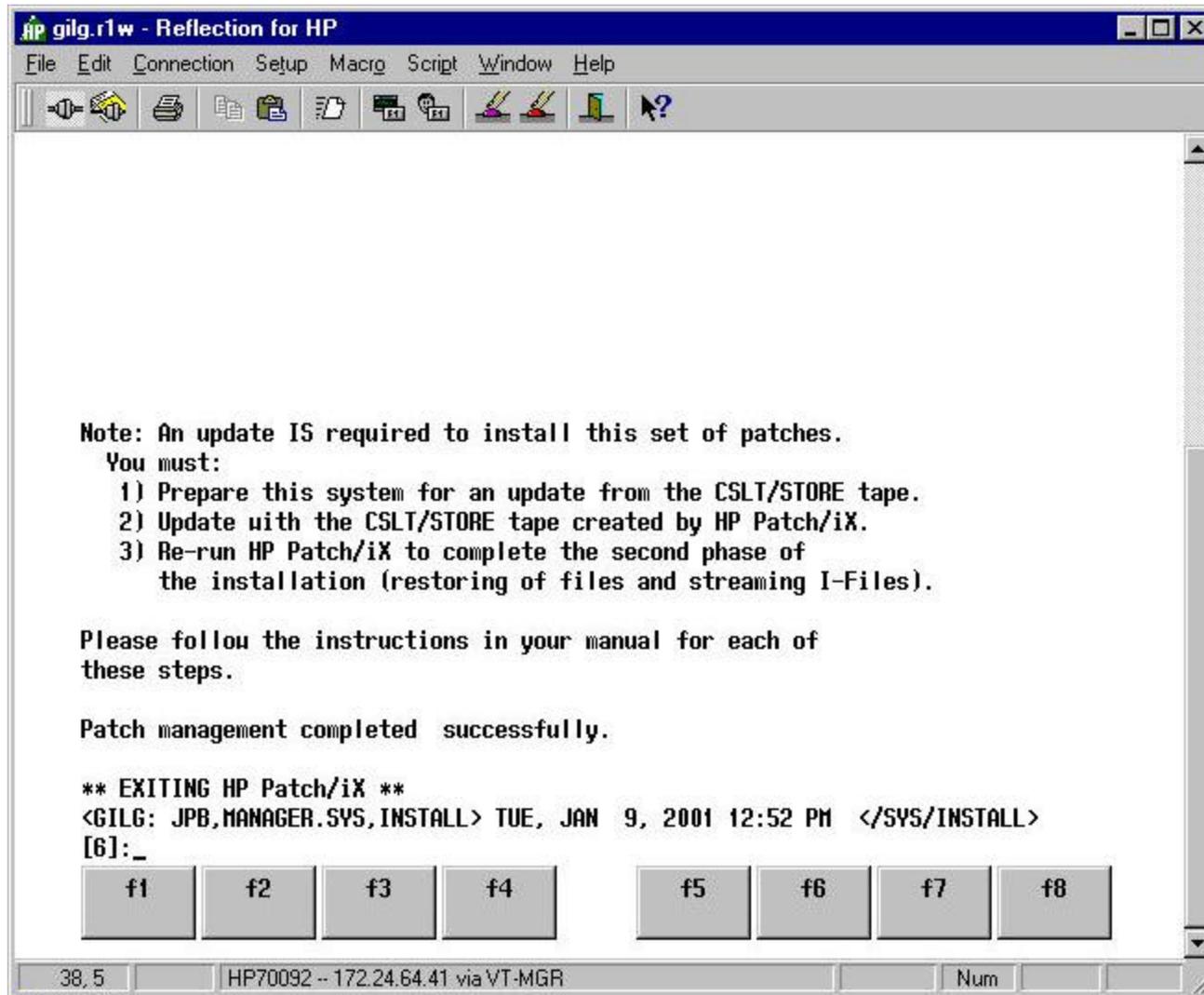
Note the actual elapsed time is significantly less than the estimate. YMMV.

# Main Menu - Exit



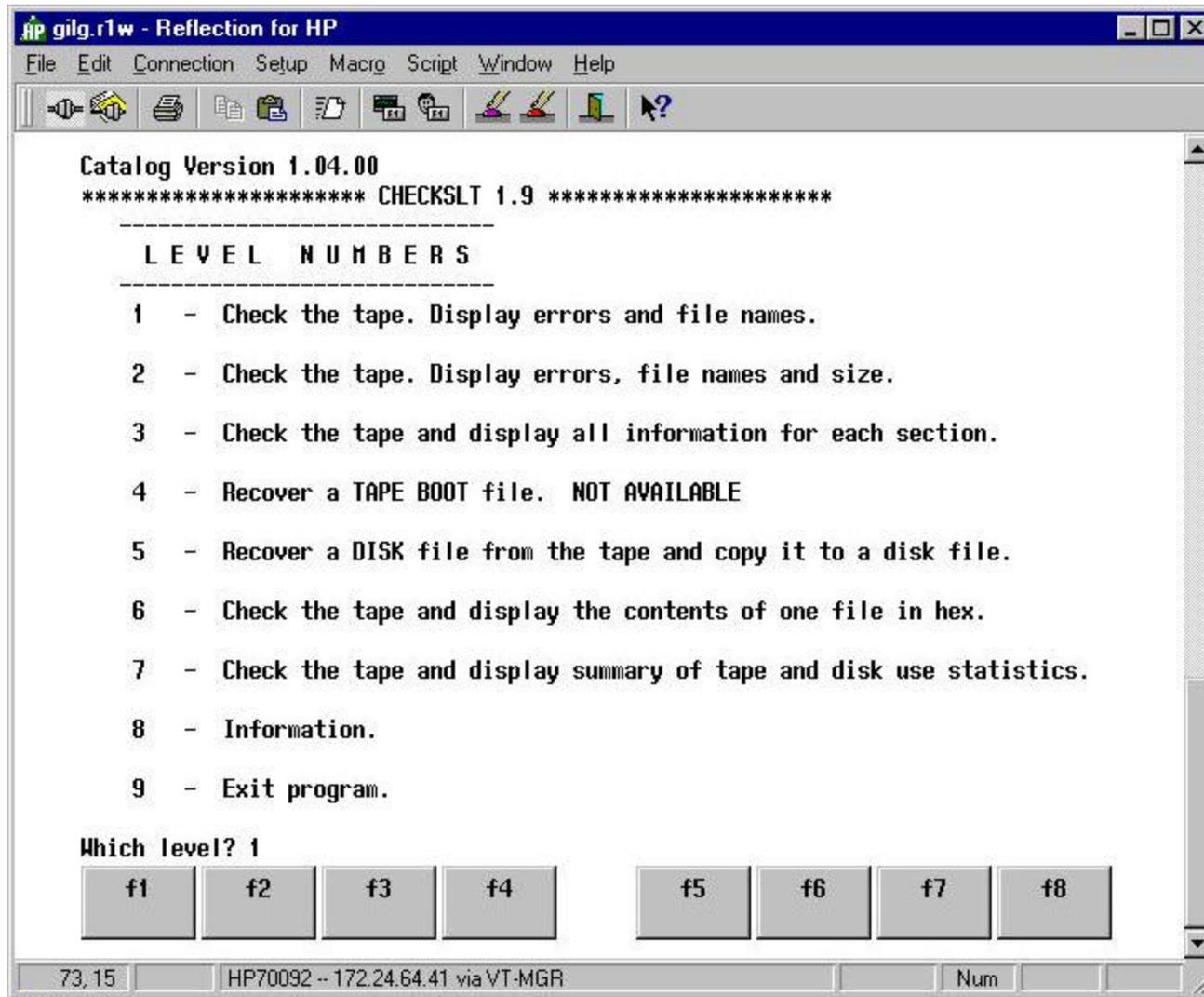
We're done with Phase I - well, almost.

# What to do next



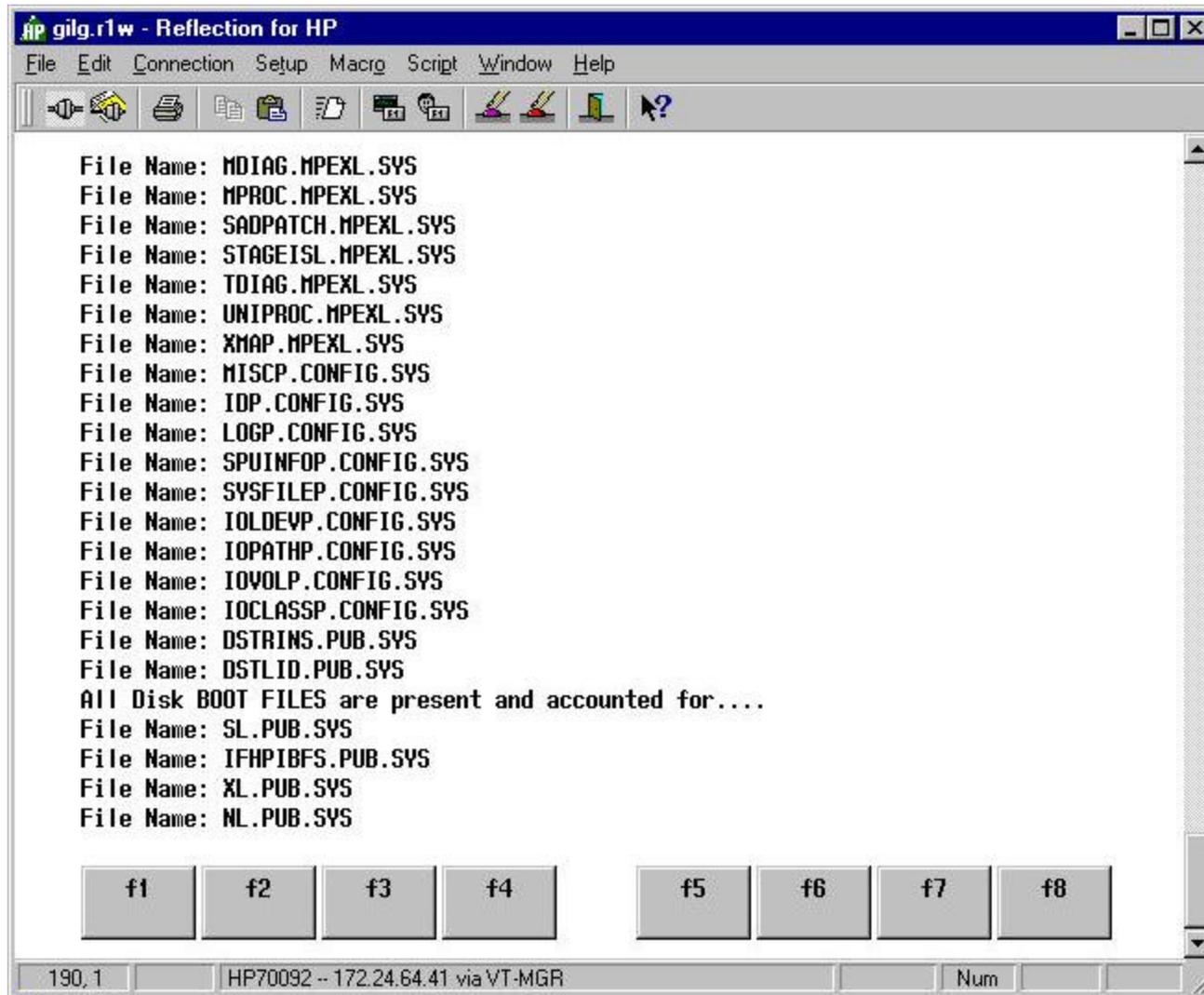
What it does not say, but what you should do unless you like living on the edge is validate the CSLT with first `checkslt.mpexl.telesup` and then with `VSTORE`.

# CHECKSLT.MPEXL.TELESUP

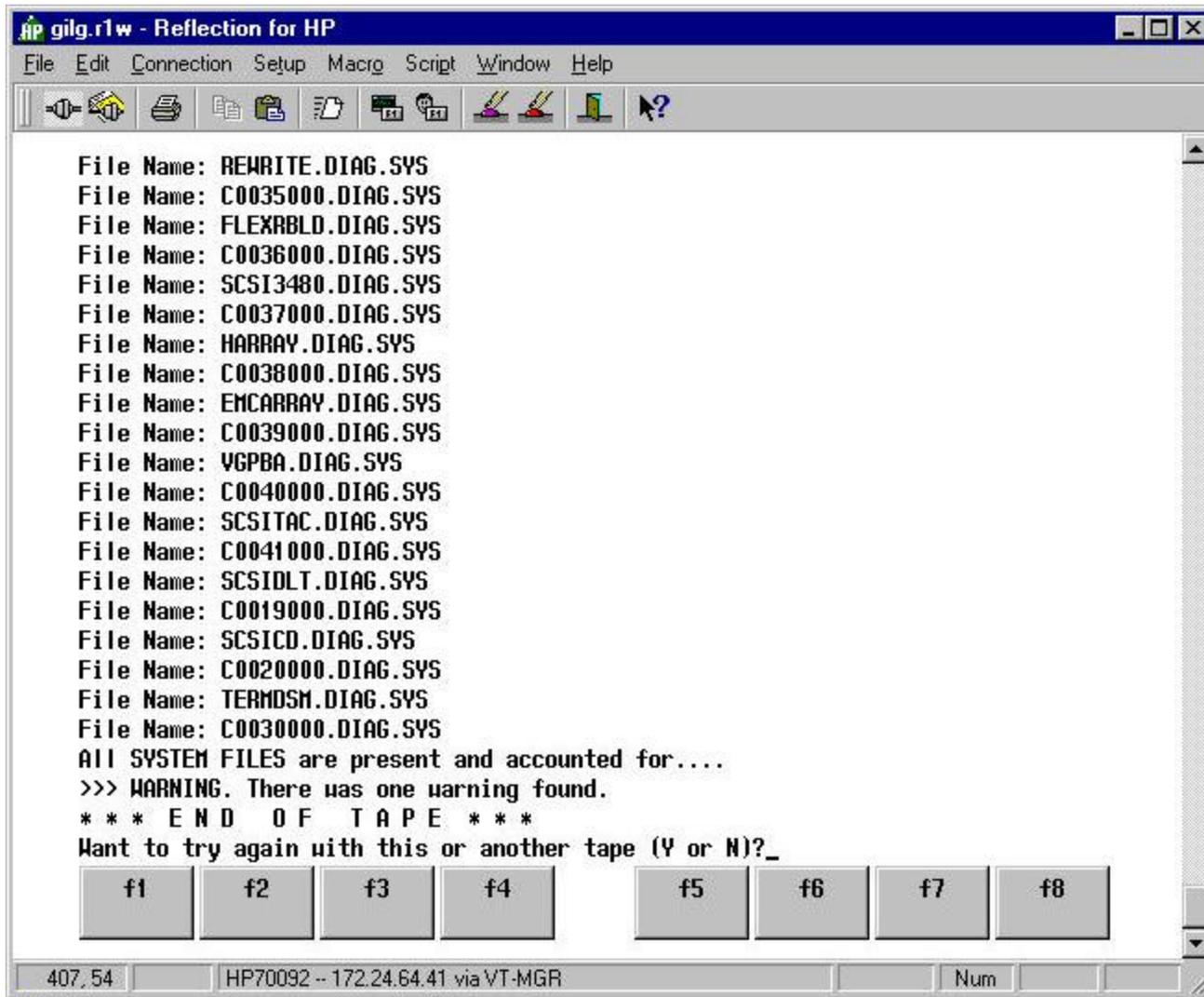


Choose option 1.

# Partial results from CHECKSLT



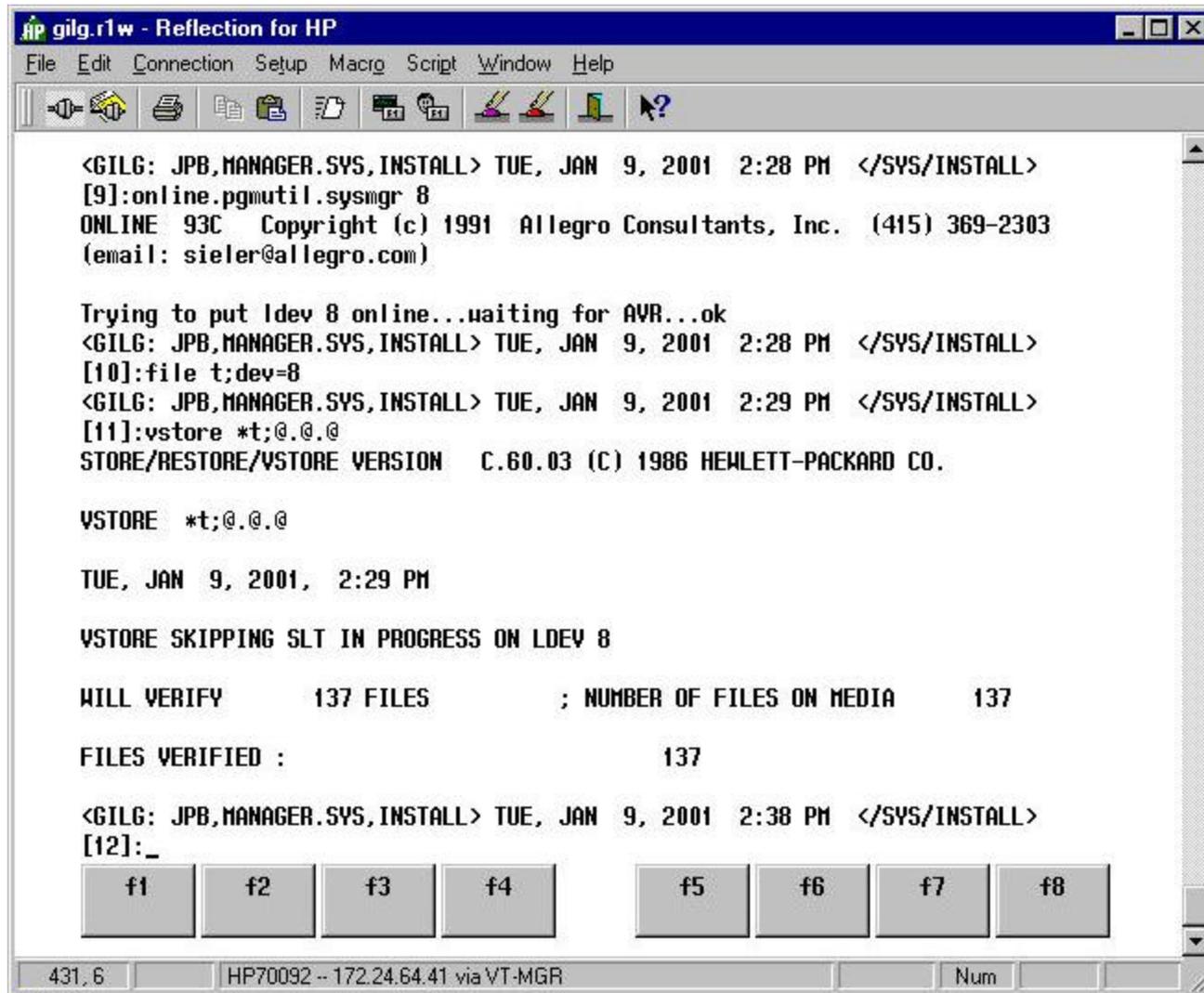
# Partial results from CHECKSLT (cont.)



```
File Name: REWRITE.DIAG.SYS
File Name: C0035000.DIAG.SYS
File Name: FLEXRBLD.DIAG.SYS
File Name: C0036000.DIAG.SYS
File Name: SCSI3480.DIAG.SYS
File Name: C0037000.DIAG.SYS
File Name: HARRAY.DIAG.SYS
File Name: C0038000.DIAG.SYS
File Name: EMCARRAY.DIAG.SYS
File Name: C0039000.DIAG.SYS
File Name: VGPBA.DIAG.SYS
File Name: C0040000.DIAG.SYS
File Name: SCSITAC.DIAG.SYS
File Name: C0041000.DIAG.SYS
File Name: SCSIDLT.DIAG.SYS
File Name: C0019000.DIAG.SYS
File Name: SCSICD.DIAG.SYS
File Name: C0020000.DIAG.SYS
File Name: TERMDSM.DIAG.SYS
File Name: C0030000.DIAG.SYS
All SYSTEM FILES are present and accounted for....
>>> WARNING. There was one warning found.
*** END OF TAPE ***
Want to try again with this or another tape (Y or N)?_
```

What was the warning for?

# VSTORE the CSLT



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  
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[www.burke-consulting.com](http://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

```
<SASHA: JPB,MGR.SYSADMIN,PUB> FRI, MAR 14, 2003 7:48 AM </SYSADMIN/PUB>  
[1]:stageman  
STAGEMAN A.01.01, (C) Hewlett-Packard Co., 1995. All Rights Reserved.  
STAGEMAN> help
```

## STAGING AREA MANAGEMENT COMMANDS:

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

# STAGEMAN HELP (cont.)

## MISC. COMMANDS:

Command (Abbrev)	Required Capabilities	Description
<b>HELP (H)</b>	SM   OP	Get help for an STAGEMAN command.
<b>ERRMSG</b>	SM   OP	Display cause/action text for a STAGEMAN error.
<b>EXIT (E)</b>	(none)	Exit STAGEMAN.
<b>LISTREDO</b>	(none)	Display the STAGEMAN command history.
<b>REDO</b>	(none)	Re-execute (and edit) a previous STAGEMAN command.
<b>DO</b>	(none)	Re-execute a previous STAGEMAN command.
<b>LOG</b>	(none)	Log a copy of all STAGEMAN output to a file.
<b>USE</b>	(none)	Execute an STAGEMAN command file.
<b>COMMENT (#)</b>	(none)	Used to document a command file.
<b>OPTION</b>	(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](http://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] /SYSADMIN/PUB $ patchman-2_2.sh -h
```

Usage is:

```
./patchman-2_2.sh [-adhnrtuy] [-c hfscatalogfile] [-e emailaddress] [-l  
hfmdirlistfile]  
  [-o hfsobsoletefile] [-u hfsunpackfile]  
  [-f 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
- l 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)
- o 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 code: 0      File Access: IN/OUT
/I i"TIXMXC3B"
/I i"TIX"
 318    TIXLXB5A  Limits in TurboImage/iX, Dataset size >80GB soln, DBUTIL fix
 451    TIXLXE5A  DBUTIL MOVE command does not work properly.
 605    TIXMX73B  DDX Corruption with rollback of xm while crossing expansion
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 TurboIMAGE patches have been installed. We need to check that TIXMXC3B supercedes them; otherwise we would just waste time.

# Patch Details: TIXMXC3B - 1

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**patch details: TIXMXC3B**

[→ patch main menu](#)  
[→ view selected patch list](#)

**The recommended patch is :** [TIXMXC3B](#)  
**The most recent patch is :** [TIXMXC3B](#)

[→ ADD TO SELECTED PATCH LIST](#)

<a href="#">Patch Name</a>	<a href="#">Patch Description</a>	<a href="#">Status</a>	<a href="#">Patch Files</a>	<a href="#">Supersedes</a>	<a href="#">Installation Instructions</a>
----------------------------	-----------------------------------	------------------------	-----------------------------	----------------------------	---

GB file left open even no accessor to the database.  
BY: MEL ROBERTSON - CSY Patch Coordinator

**Patch Name:** TIXMXC3B

**Path Name:** /mpe-ix\_patches/c.65.00/TIXMXC3B

**Patch Description:** GB file left open even no accessor to the database.

**Last Updated:** 02/03/03

**Date Entered:** 10/28/02

**Patch Status:** Patch is General Release

**SR Number:**  
8606-284008    8606-266870    8606-257226    8606-268617

**Dependency SCO:** None

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# Patch Details: TIXMXC3B - 2

Dependency SCO: None

Welcome, John P. Burke!  
(CA55893)

## Patch Files:

ORGFIL	TARGFILE	PATCH TYPE
TIXMXC3B.TIXMXC3B.PATCHIX		
AUTOPAT.HP31900A.PATCHXL		
GENMXC3B.TIXMXC3B.PATCHIX		
REFMXC3B.TIXMXC3B.PATCHIX		
U21MXC3B.TIXMXC3B.PATCHIX	TIMAGE	
U22MXC3B.TIXMXC3B.PATCHIX	CORONA2	
R01MXC3B.TIXMXC3B.PATCHIX	HP30391_01	RP
R04MXC3B.TIXMXC3B.PATCHIX	HP30391_04	RP
R03MXC3B.TIXMXC3B.PATCHIX	HP30391_03	RP
C00MXC3B.TIXMXC3B.PATCHIX	IMAGECAT.PUB.SYS	RP
C02MXC3B.TIXMXC3B.PATCHIX	TICAT000.PUB.SYS	RP
P00MXC3B.TIXMXC3B.PATCHIX	UTIINIT.TI.TELESUP	RP
P01MXC3B.TIXMXC3B.PATCHIX	MXTI0308.TI.TELESUP	RP
P02MXC3B.TIXMXC3B.PATCHIX	UTIINIT1.TI.TELESUP	RP
P32MXC3B.TIXMXC3B.PATCHIX	DBRESTOR.PUB.SYS	RP
P36MXC3B.TIXMXC3B.PATCHIX	DBRCVCM.PUB.SYS	RP
P60MXC3B.TIXMXC3B.PATCHIX	DEDRIVCM.PUB.SYS	RP
P61MXC3B.TIXMXC3B.PATCHIX	DEDDUMP.PUB.SYS	RP
P62MXC3B.TIXMXC3B.PATCHIX	I7DB8CNV.PUB.SYS	RP
P63MXC3B.TIXMXC3B.PATCHIX	DBCONV.PUB.SYS	RP
P64MXC3B.TIXMXC3B.PATCHIX	DEUTILB.PUB.SYS	RP
P65MXC3B.TIXMXC3B.PATCHIX	DEDRIVER.PUB.SYS	RP
P24MXC3B.TIXMXC3B.PATCHIX	SYTIO308.TI.TELESUP	RP
P05MXC3B.TIXMXC3B.PATCHIX	IMAGEDMP.PUB.SYS	RP
P31MXC3B.TIXMXC3B.PATCHIX	DBSTORE.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	DEUTIL.PUB.SYS	RP
P68MXC3B.TIXMXC3B.PATCHIX	DEBIGSET.PUB.SYS	AD
P37MXC3B.TIXMXC3B.PATCHIX	DBRECOV.PUB.SYS	RP

Patch Package Size: 32752 sectors

# Patch Details: TIXMXC3B - 3

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

-----

# Patch Details: TIXMXC3B - 4

## 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 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.

# Patch Details: TIXMXC3B - 5

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

# Patch Details: TIXMXC3B - 6

## 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 description 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](#)

# 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	-----SIZE	-----TYP	-----LOGICAL	-----RECORD	-----LIMIT	-----R/B	-----SPACE	-----SECTORS	-----#X	-----MX	FILENAME
	16W	HBD	0	67107839	1		32	1	*		base_archive/
	16W	HBD	0	67107839	1		32	1	*		export/
	16W	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 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 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 FILES      ; NUMBER OF FILES ON MEDIA      32
```

FILENAME	GROUP	ACCOUNT	VOLUME	RESTRICTIONS	SECTORS	CODE	MEDIA
AUTOPAT	.PATCHXL	.SYS	DISC		:C	384	1
C00MXC3B	.PATCHXL	.SYS	DISC		:C	288	1
C02MXC3B	.PATCHXL	.SYS	DISC		:C	96 MGCAT	1
GENMXC3B	.PATCHXL	.SYS	DISC		:C	112	1
P00MXC3B	.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

# Unpack the patch using UNPACKP - 3

P37MXC3B.PATCHXL	.SYS	DISC	:C	1168	NMPRG	1
P60MXC3B.PATCHXL	.SYS	DISC	:C	80	PROG	1
P61MXC3B.PATCHXL	.SYS	DISC	:C	16	PROG	1
P62MXC3B.PATCHXL	.SYS	DISC	:C	144	PROG	1
P63MXC3B.PATCHXL	.SYS	DISC	:C	80	PROG	1
P64MXC3B.PATCHXL	.SYS	DISC	:C	64	PROG	1
P65MXC3B.PATCHXL	.SYS	DISC	:C	512	NMPRG	1
P68MXC3B.PATCHXL	.SYS	DISC	:C	336	NMPRG	1
R01MXC3B.PATCHXL	.SYS	DISC	:C	8816	NMRL	1
R03MXC3B.PATCHXL	.SYS	DISC	:C	7184	NMRL	1
R04MXC3B.PATCHXL	.SYS	DISC	:C	7168	NMRL	1
REFMXC3B.PATCHXL	.SYS	DISC	:C	64		1
RMMXC3B.PATCHXL	.SYS	DISC	:C	512		1
TIXMXC3B.PATCHXL	.SYS	DISC	:C	1376		1
U21MXC3B.PATCHXL	.SYS	DISC	:C	64	USL	1
U22MXC3B.PATCHXL	.SYS	DISC	:C	96	USL	1

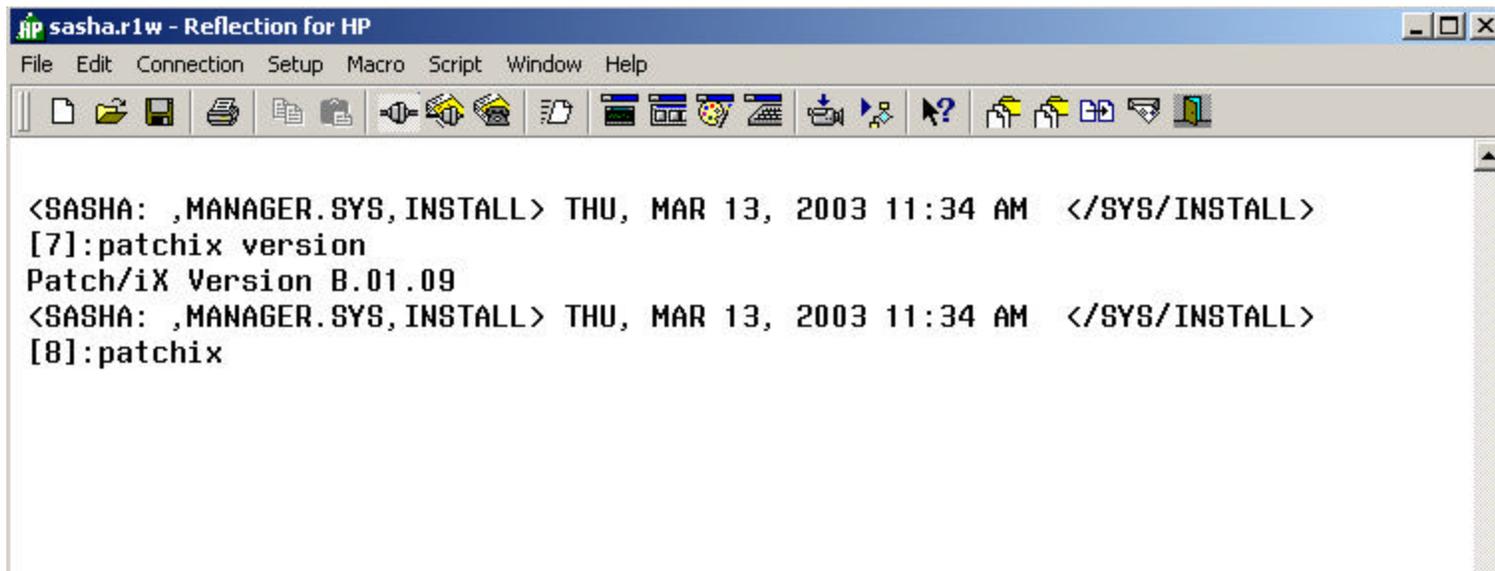
FILES RESTORED : 32

Patch TIXMXC3B has been unpacked successfully.

<SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 11:28 AM </SYS/INSTALL>

[7]:

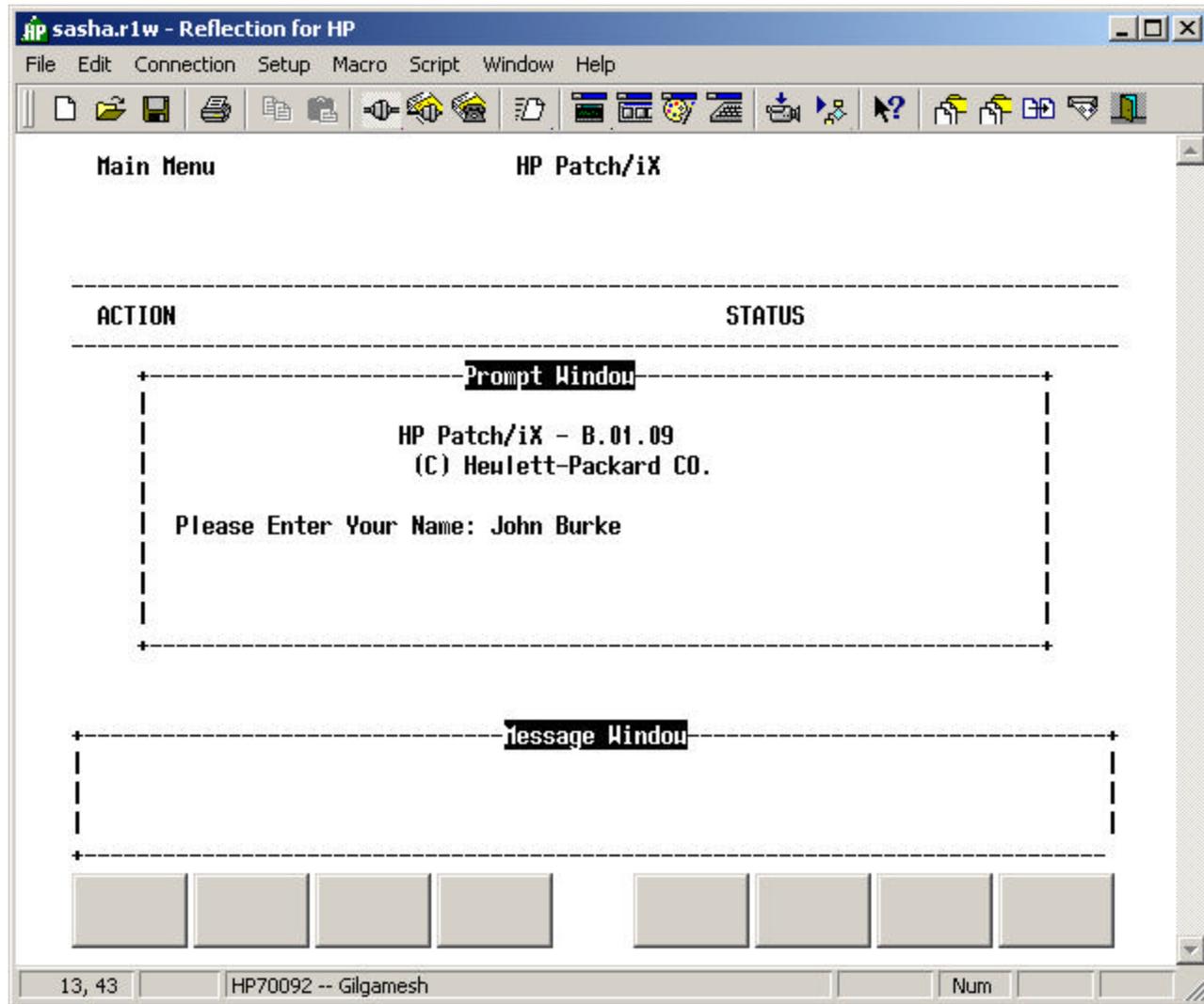
# Run PATCHIX



```
sasha.r1w - Reflection for HP
File Edit Connection Setup Macro Script Window Help
[Icons]
<SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 11:34 AM </SYS/INSTALL>
[7]:patchix version
Patch/iX Version B.01.09
<SASHA: ,MANAGER.SYS,INSTALL> THU, MAR 13, 2003 11:34 AM </SYS/INSTALL>
[8]:patchix
```

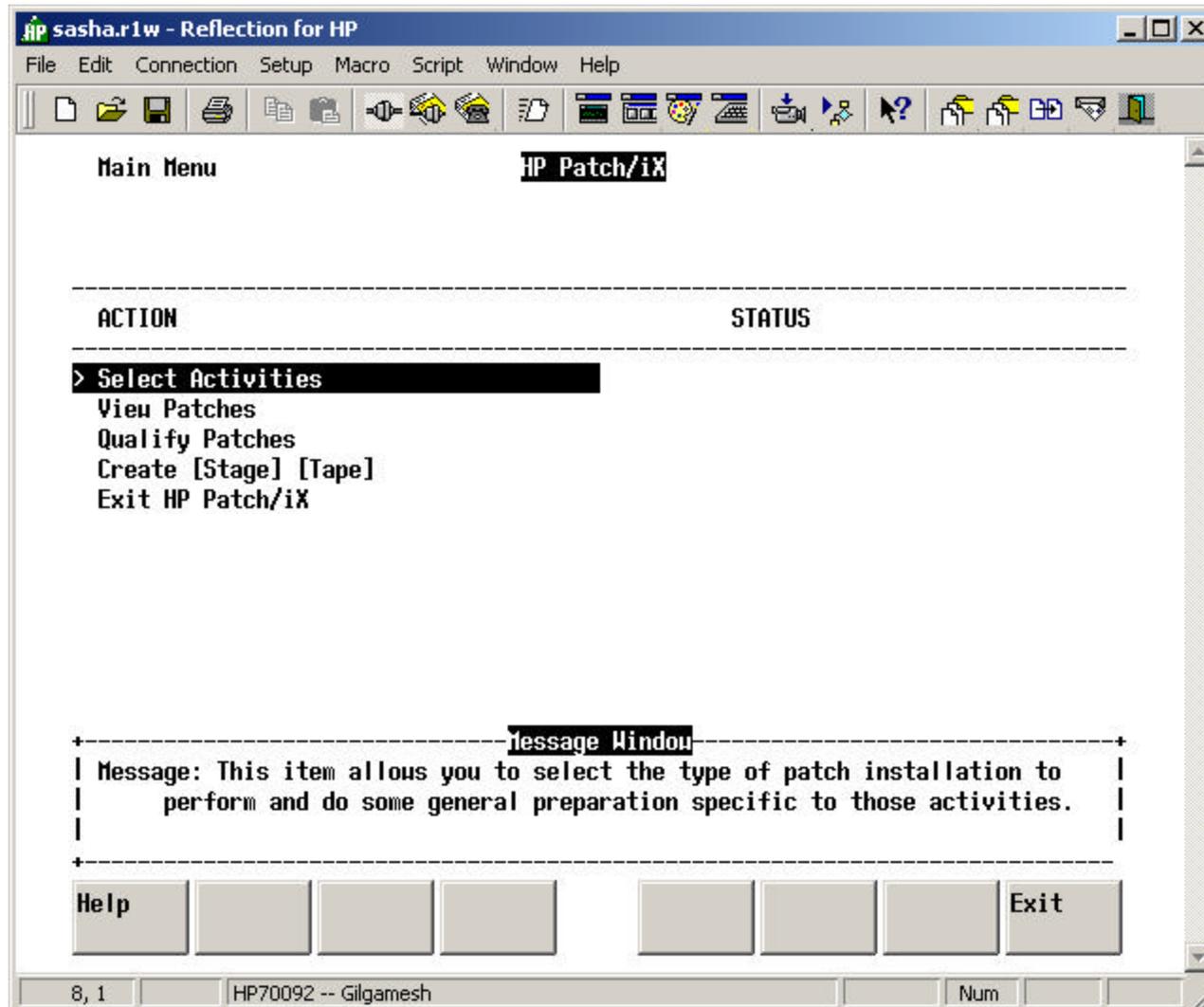
Sign on as “MANAGER.SYS,INSTALL”. Before proceeding, make sure you have the latest version of Patch/iX for your system and that you have validated all tapes. Your PowerPatch or Reactive patch tape will have an appropriate version of Patch/iX or you can download the latest from the ITRC.

# Identify this instance of PATCHIX



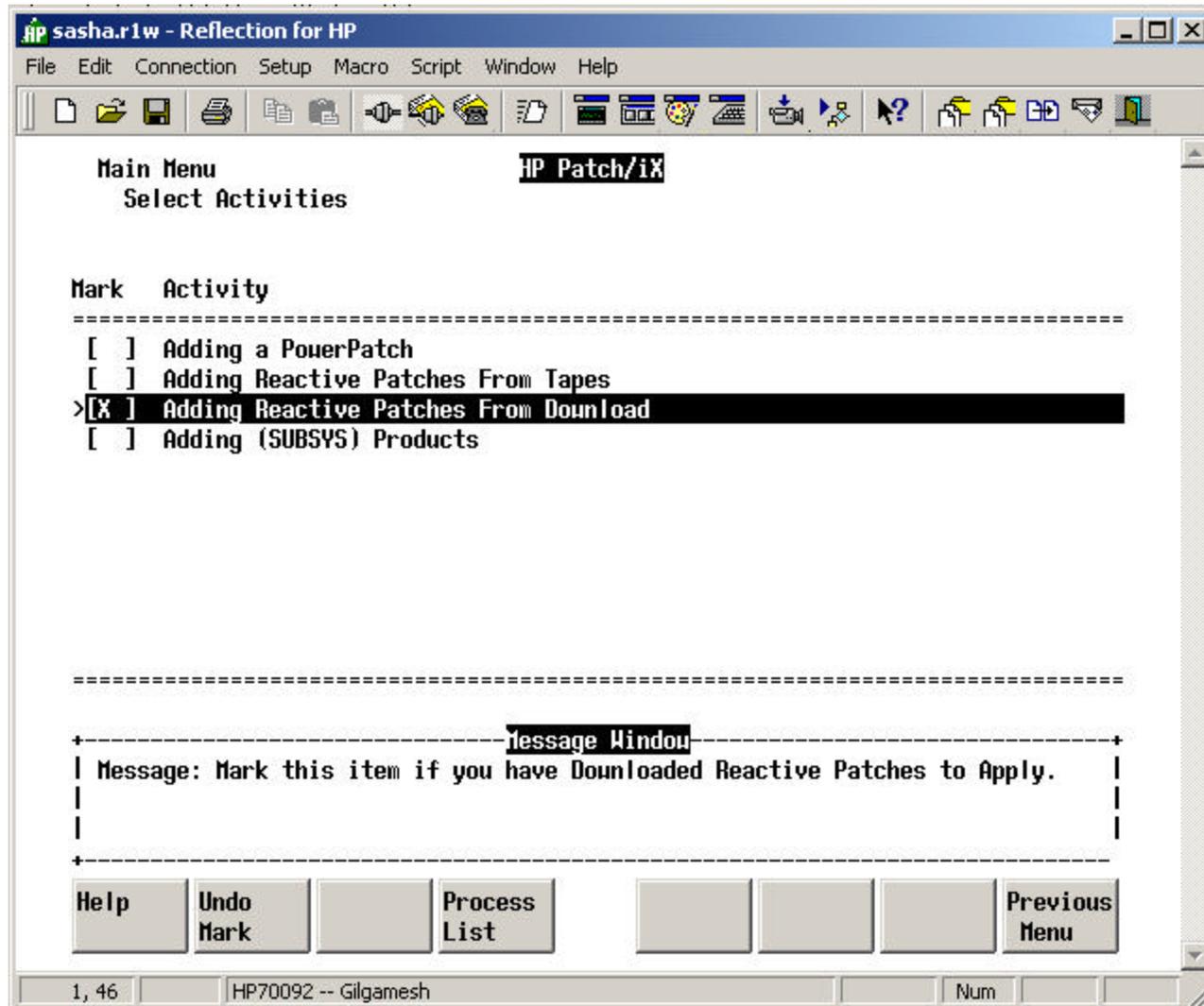
Enter you name here to identify this run of Patch/iX.

# Main Menu - Select Activities



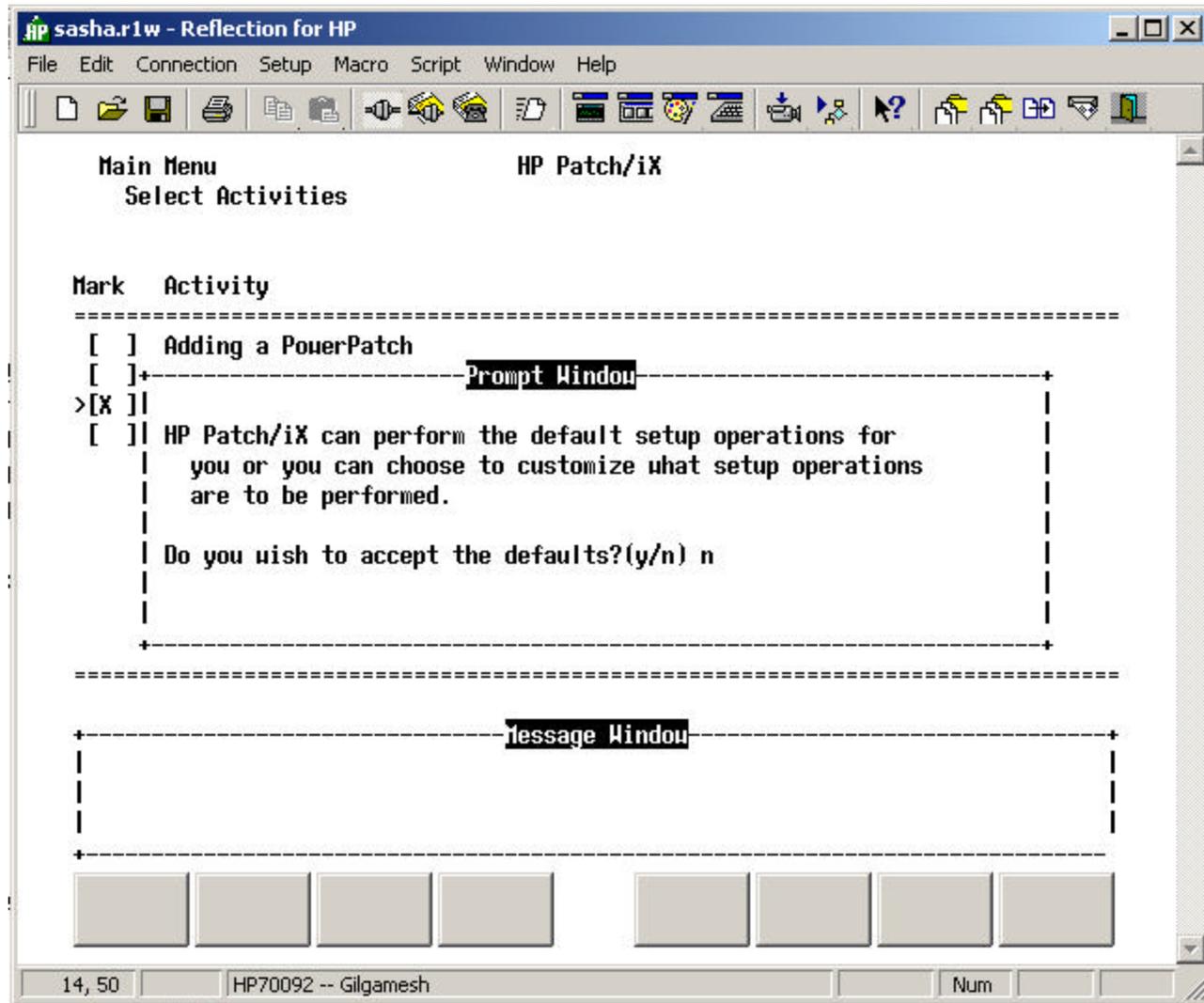
This is where you tell Patch/iX what you want to do. Hit RETURN to select this menu item.

# Select Activity



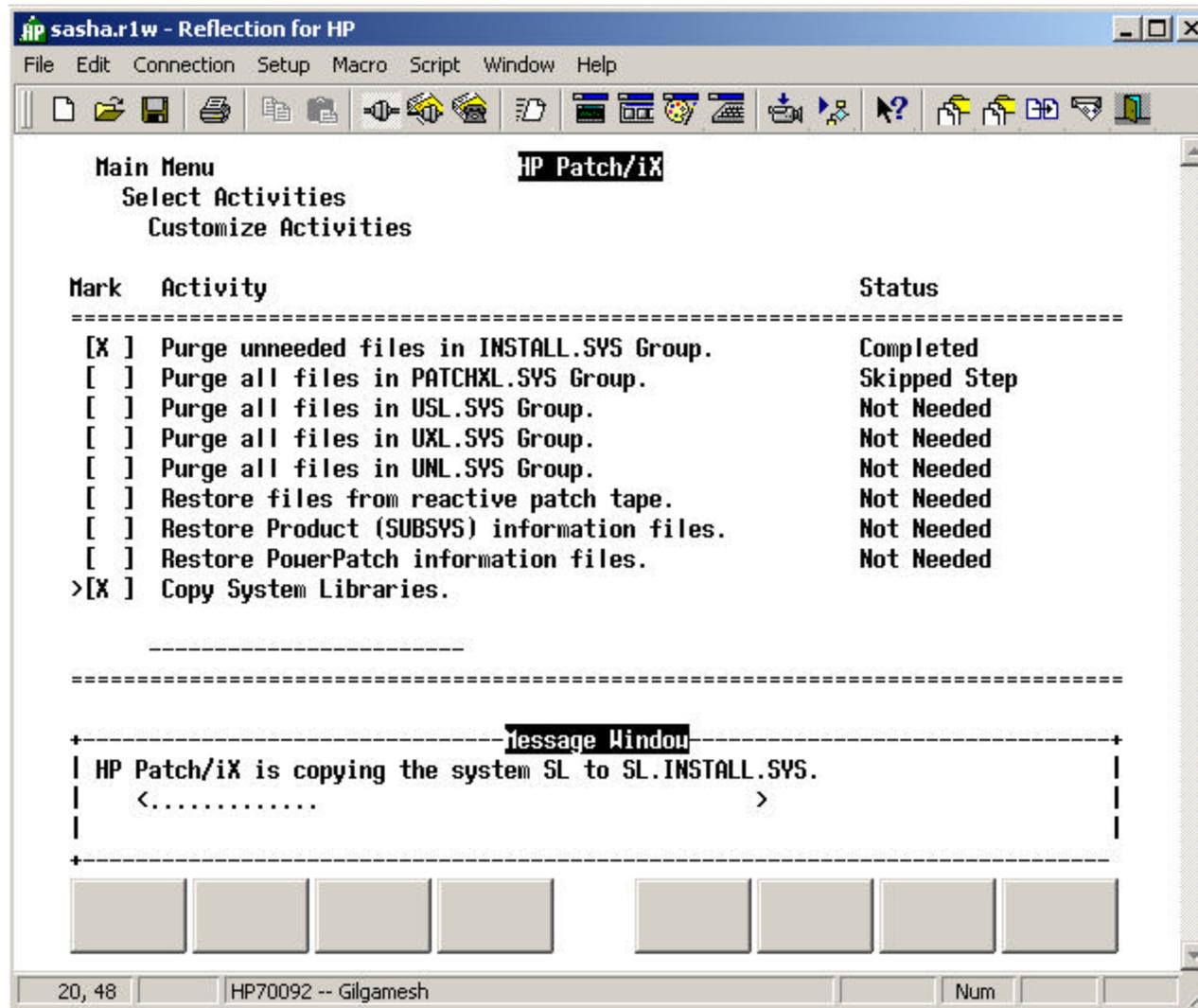
Press F2 to “mark” “Adding a Reactive Patches From Download” and then press F4 to process the list of activities. Note that you can apply a PowerPatch, add reactive patches and add SUBSYS products in one step.

# Accept default setup?

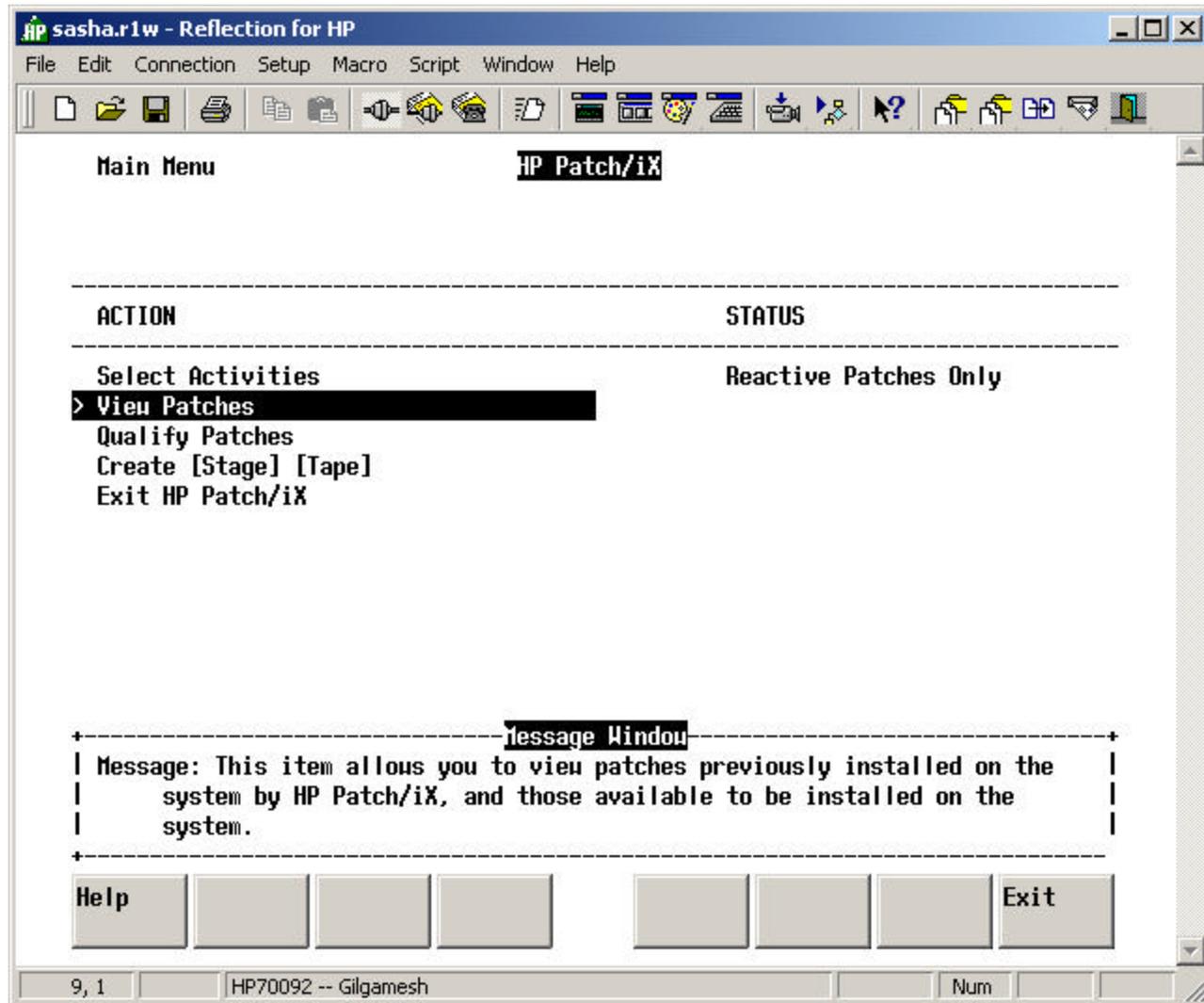


Generally speaking, you can say “yes” if you are just applying a PowerPatch. Otherwise, say “no”. It appears Patch/iX has been enhanced to eliminate the need to customize the setup; however, it is still a good idea to check anyway.

# Perform Setup Activities

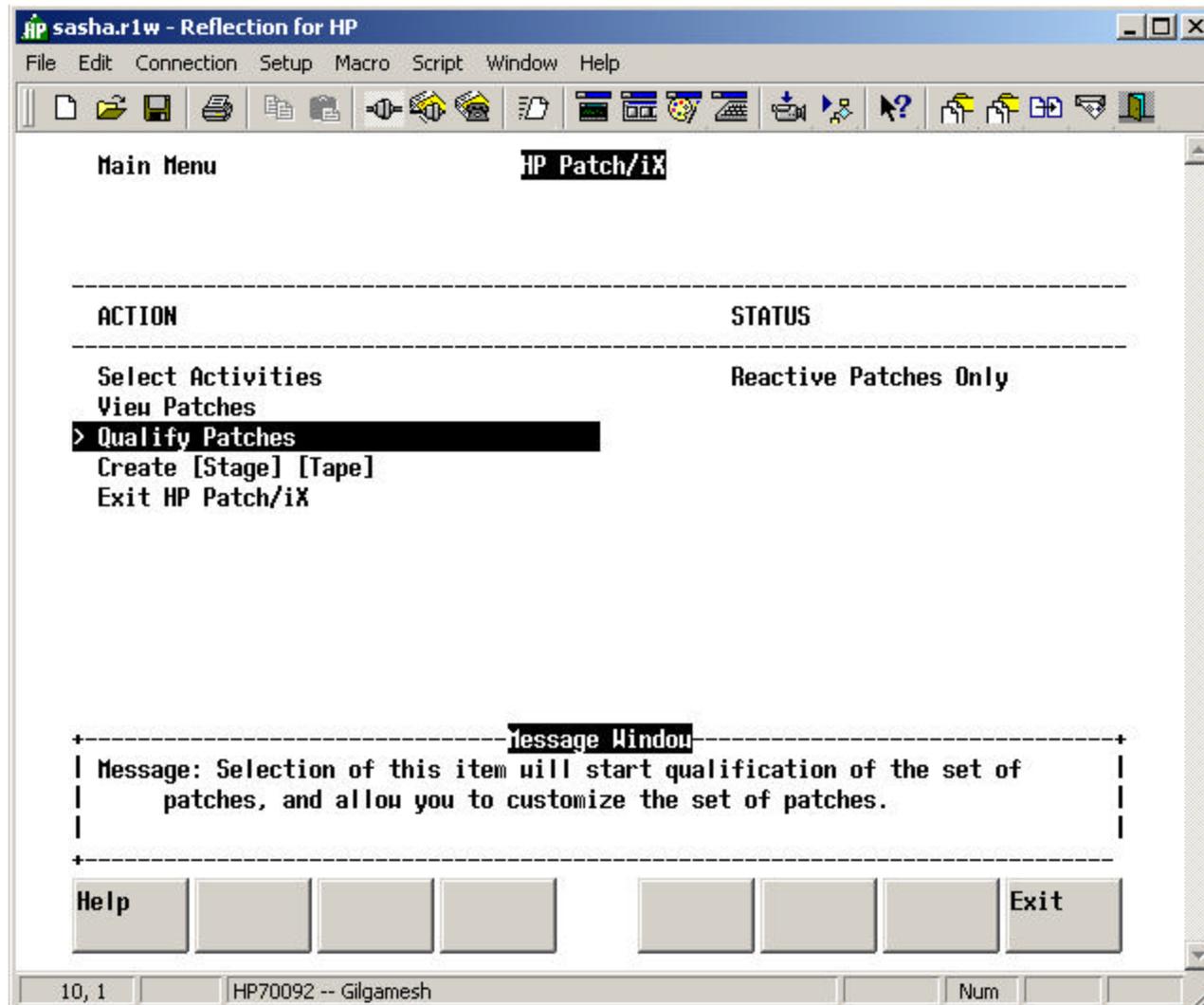


# Main Menu - View Patches



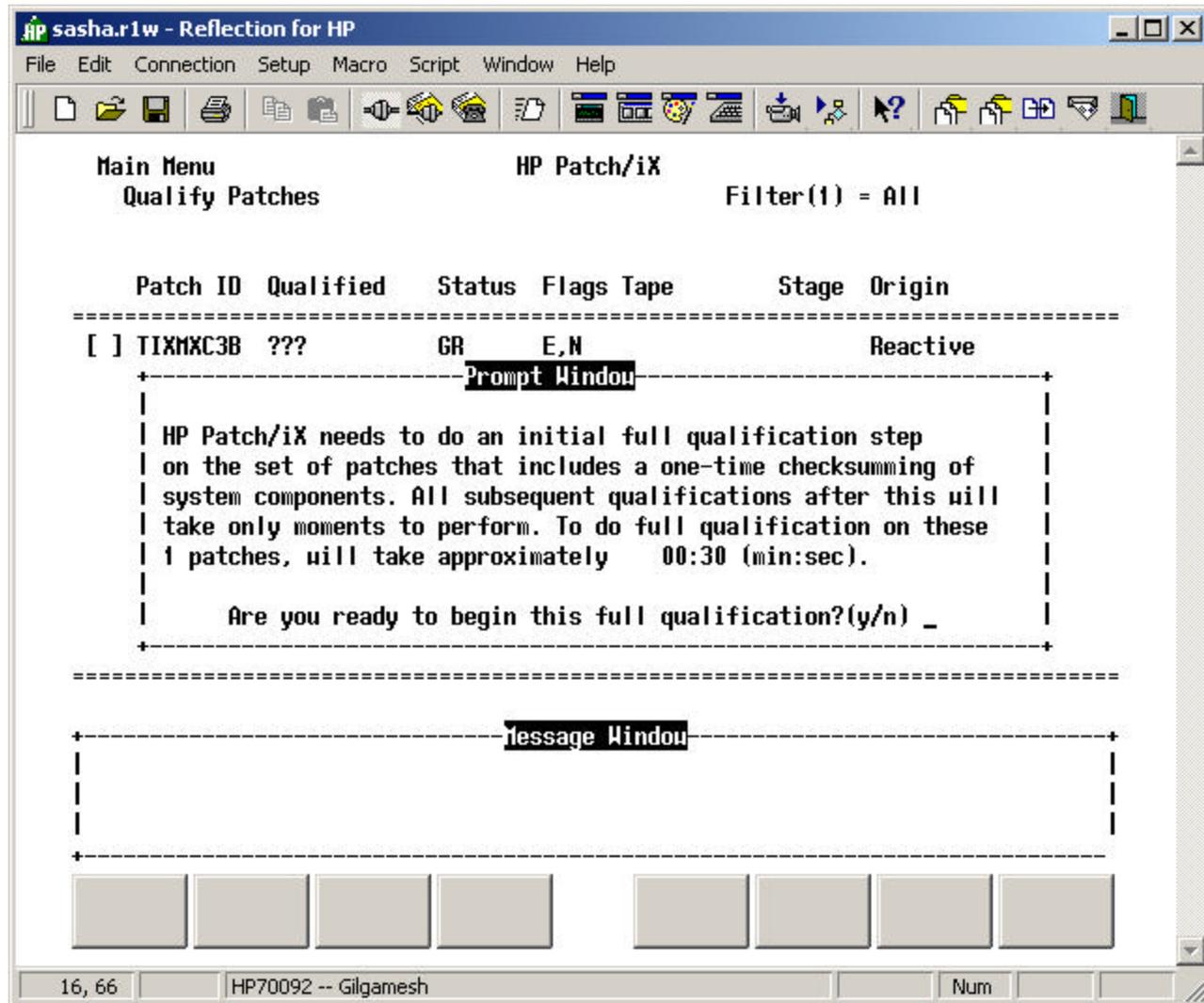
As before, this is optional. Presumably we've already checked that TIXMXC3B has not been installed.

# Main Menu - Qualify Patches



Let's go right to qualifying the patch.

# Begin Qualification Process?



Respond "yes" to continue.

# Qualification Process

sasha.r1w - Reflection for HP

File Edit Connection Setup Macro Script Window Help

Main Menu HP Patch/iX Filter(1) = All

Qualify Patches

Patch ID	Qualified	Status	Flags	Tape	Stage	Origin
[ ] TIXMXC3B	???	GR	E,N			Reactive

**Information Window**

Patch Qualification in Progress

PowerPatch Patches:	0	Estimated Time:	00:30
Reactive Patches:	1	Elapsed Time:	00:19

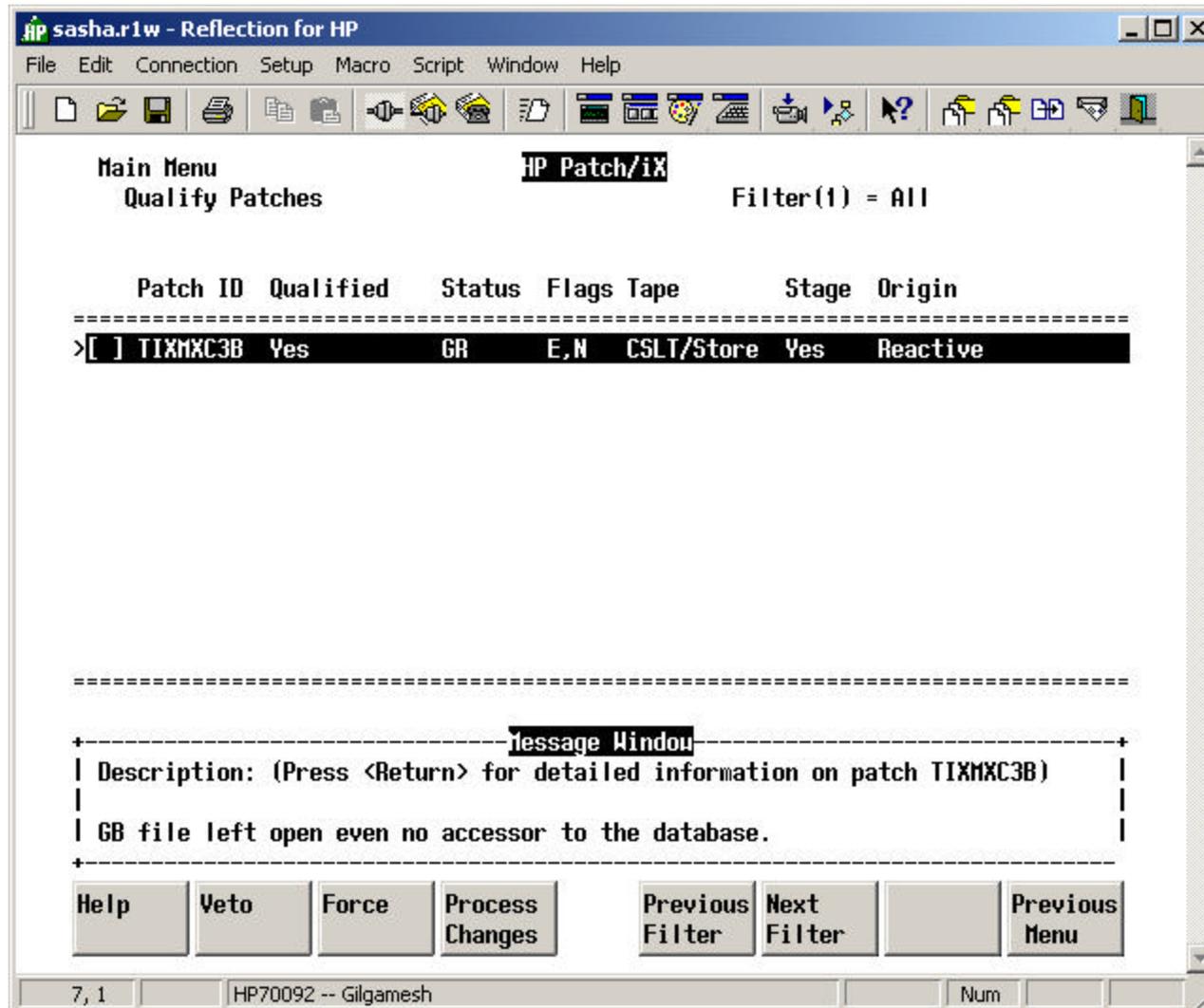
**Message Window**

Message: HP Patch/iX is now checksumming your system libraries and files.

<.....>

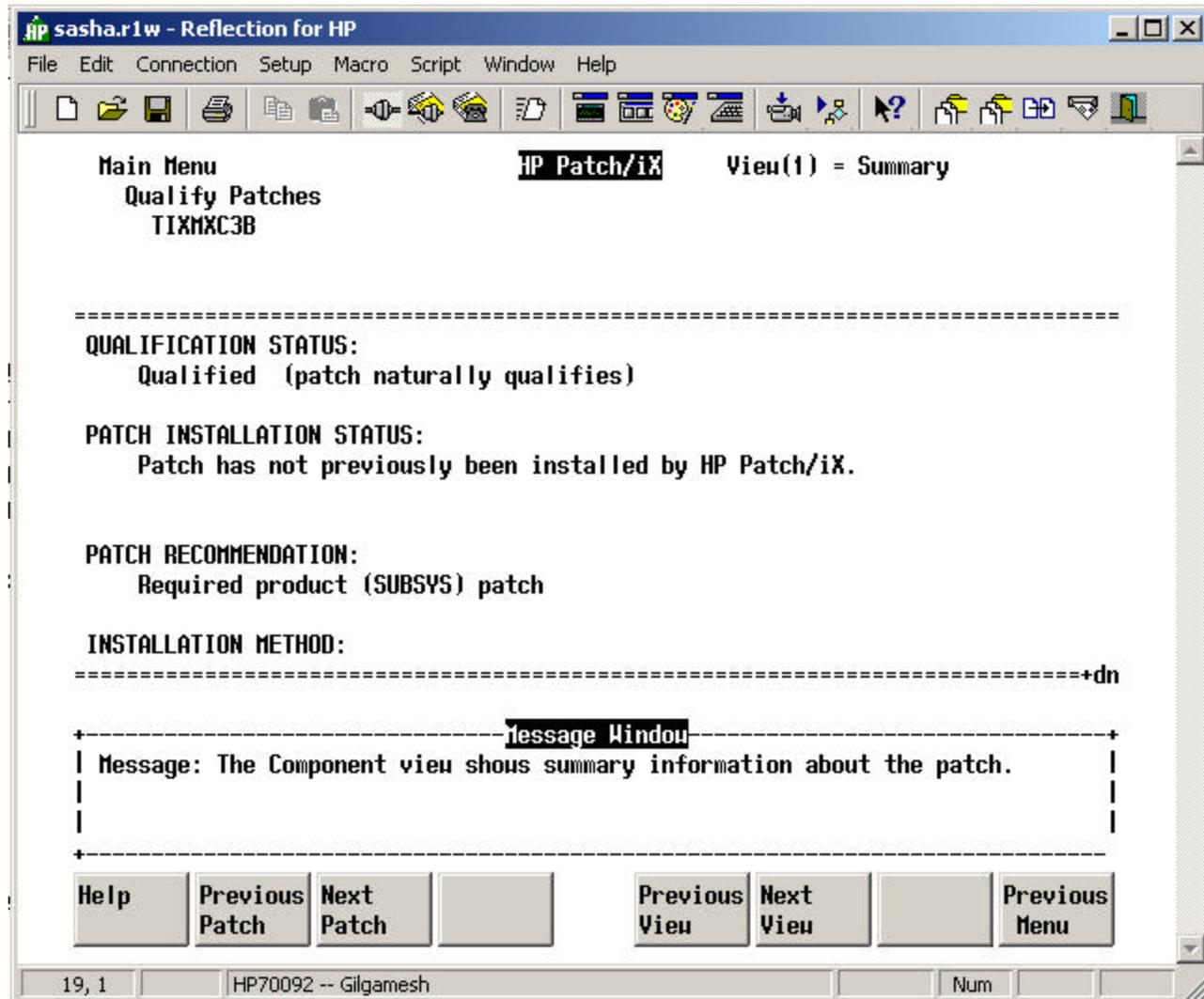
20, 48      HP70092 -- Gilgamesh      Num

# Result of Qualification Process



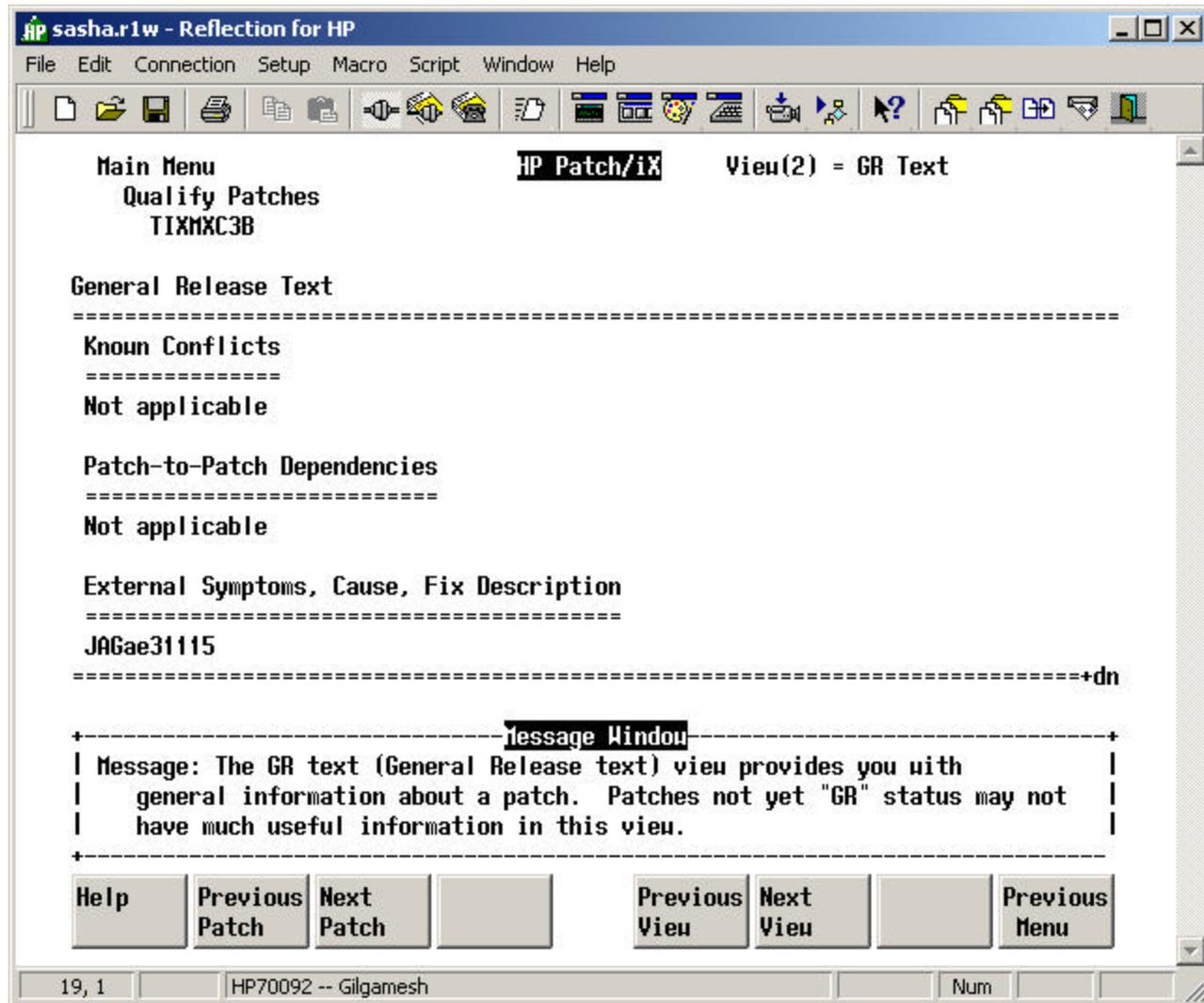
Surprise, surprise, it qualifies. If it did not, you would want to review why and discuss with your support provider.

# View(1) = Summary

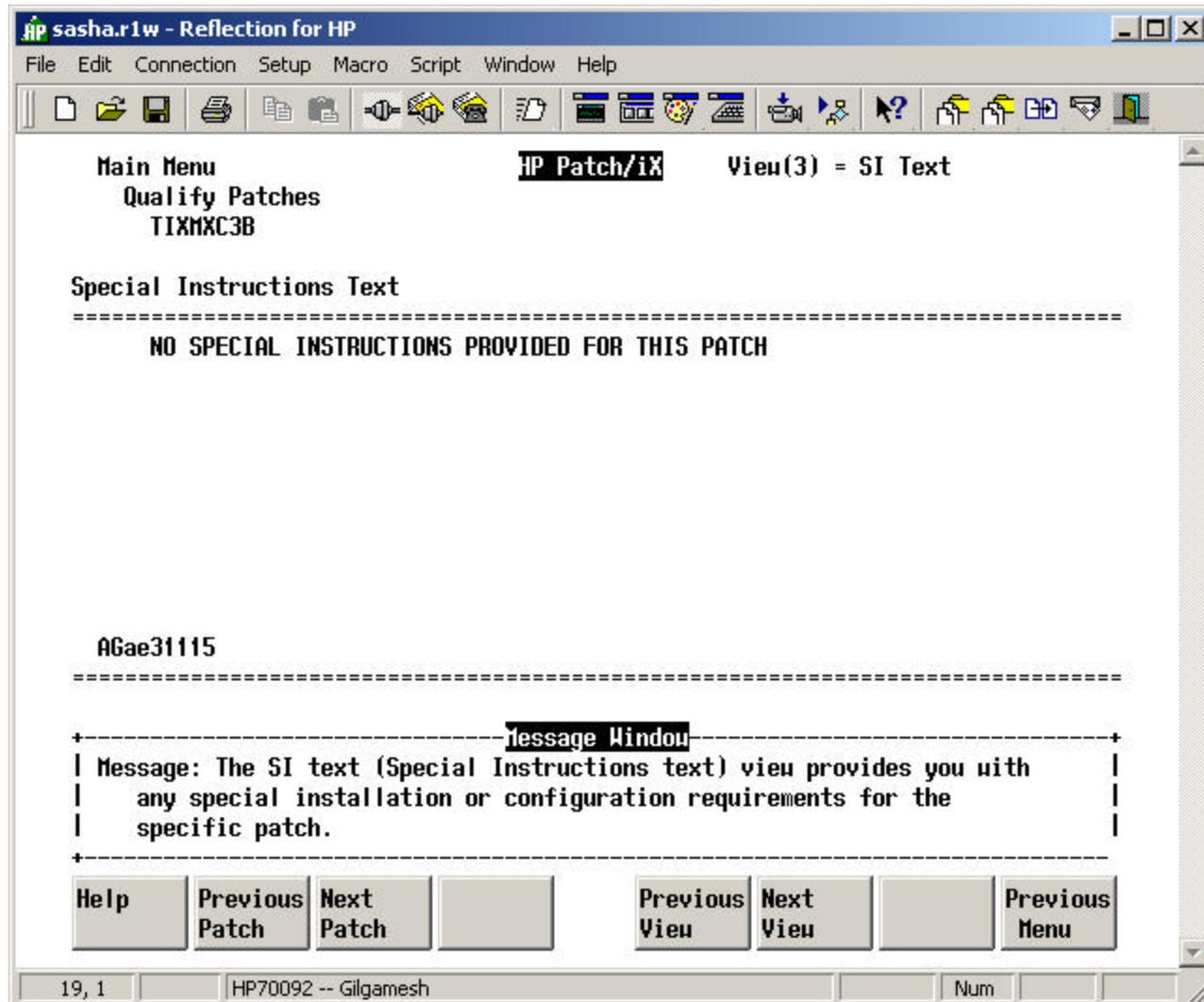


Let's go through all eight screens to see what this patch is all about. This is the exact same description as in the patch database of the ITRC.

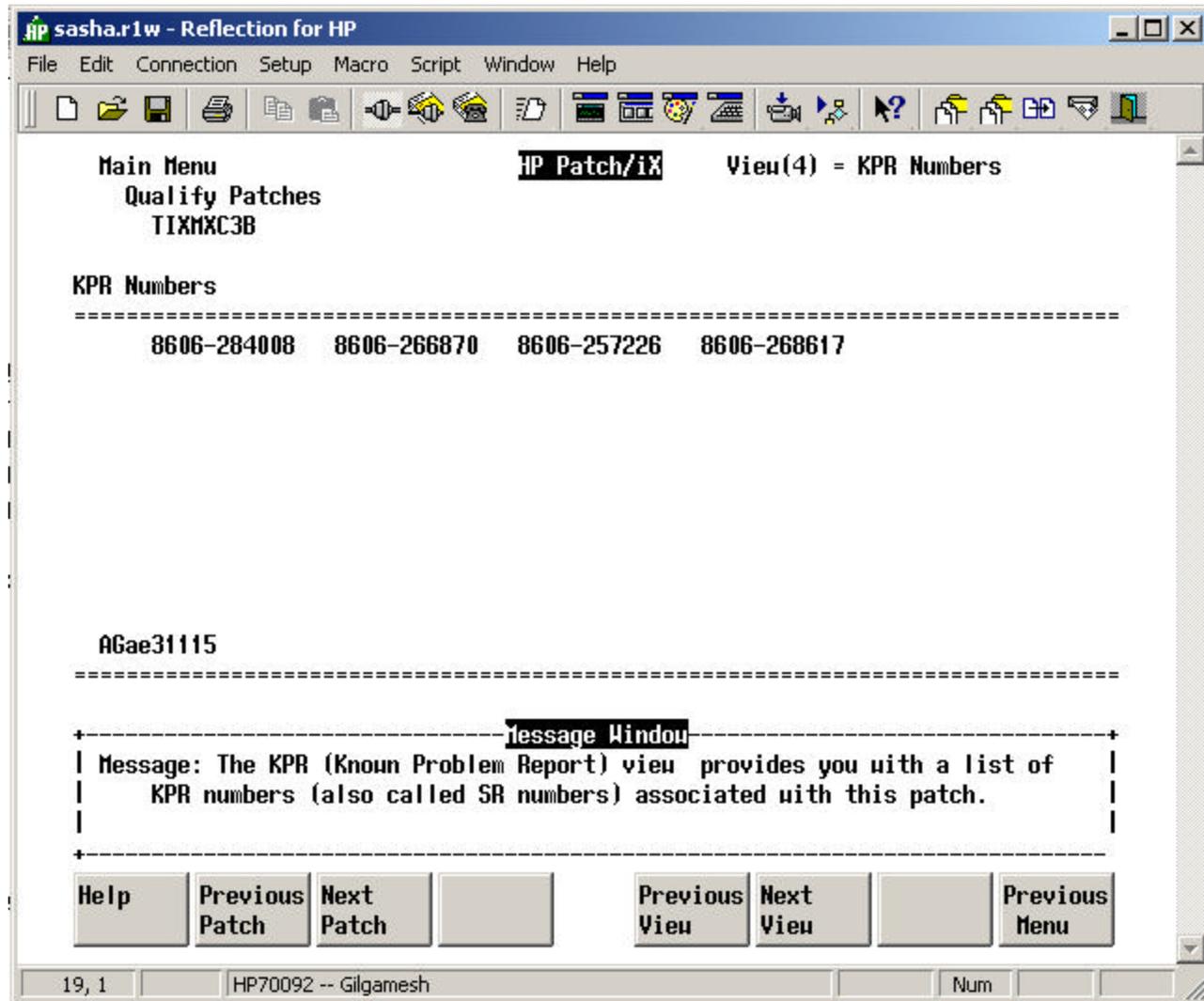
# View(2) = GR Text



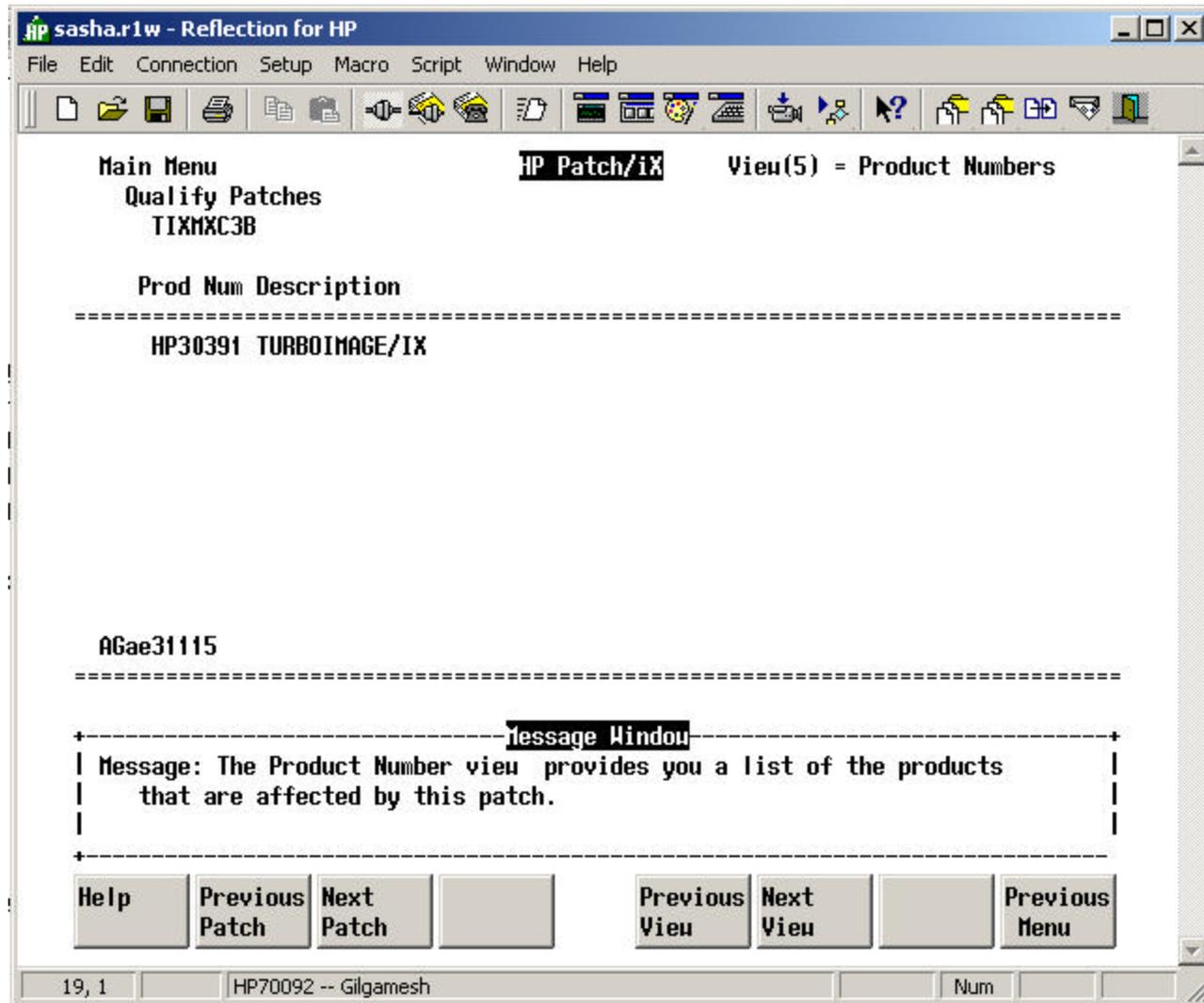
# View(3) = SI Text



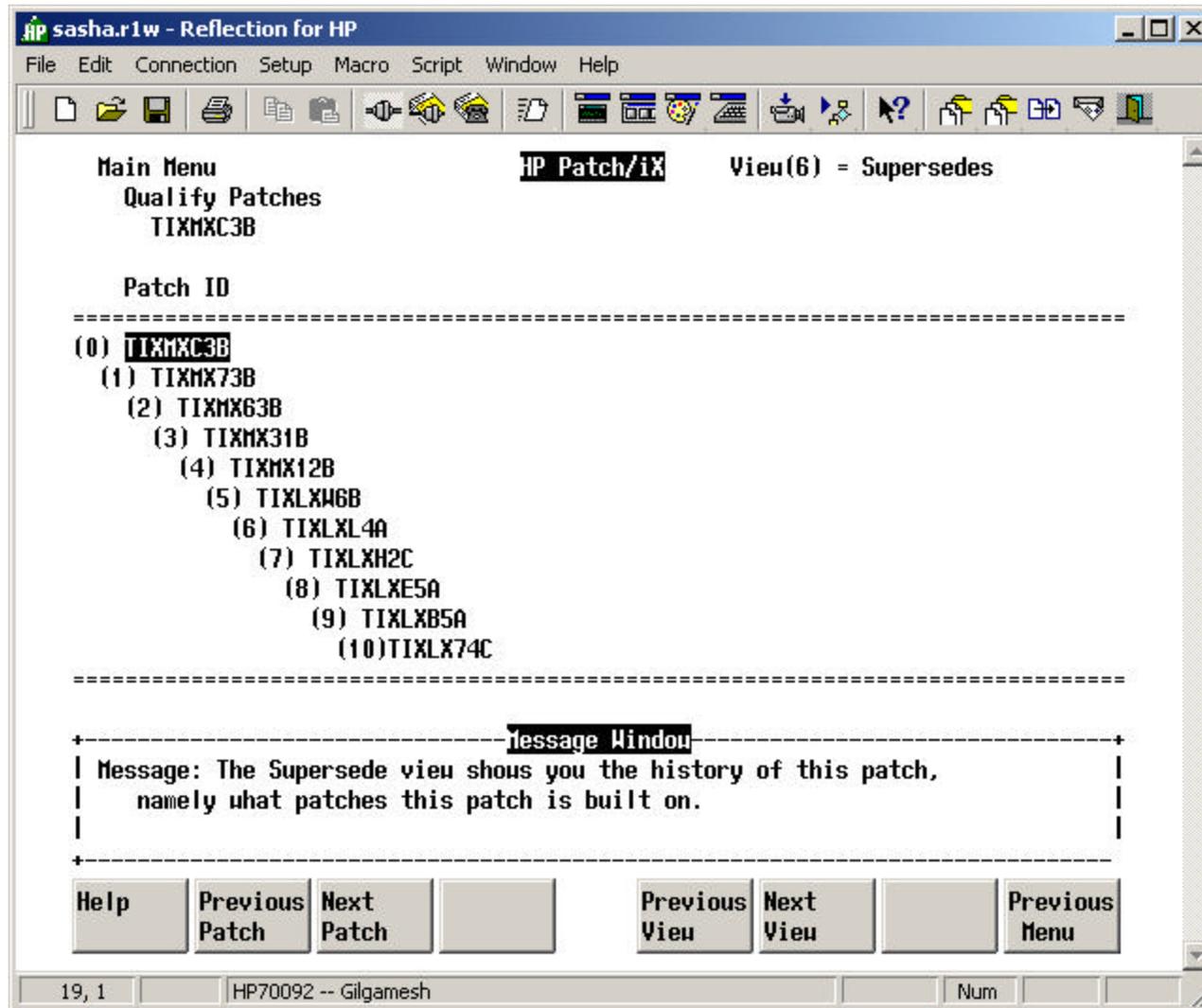
# View(4) = KPR Numbers



# View(5) = Product Numbers



# View(6) = Supersedes



# View(7) = Patch Components

The screenshot shows the HP Reflection for HP software interface. The title bar reads "HP sasha.r1w - Reflection for HP". The menu bar includes "File", "Edit", "Connection", "Setup", "Macro", "Script", "Window", and "Help". The toolbar contains various icons for file operations and navigation. The main window displays the "Main Menu" with options "Qualify Patches" and "TIXMxC3B". The current view is "HP Patch/iX" and "View(7) = Patch Components".

ORGFIL	TARGFILE	PTYPE	CHKSUM	STATUS
C00MxC3B.TIXMxC3B.PATCHIX	IMAGECAT.PUB.SYS	RP	%155465	MATCH
C02MxC3B.TIXMxC3B.PATCHIX	TICAT000.PUB.SYS	RP	%117361	MATCH
P00MxC3B.TIXMxC3B.PATCHIX	UTIINIT.TI.TELESUP	RP	%140613	MATCH
P01MxC3B.TIXMxC3B.PATCHIX	MXTI0308.TI.TELESUP	RP	%153445	MATCH
P02MxC3B.TIXMxC3B.PATCHIX	UTIINIT1.TI.TELESUP	RP	%65037	MATCH
P05MxC3B.TIXMxC3B.PATCHIX	IMAGEDMP.PUB.SYS	RP	%17254	MATCH
P24MxC3B.TIXMxC3B.PATCHIX	SYTI0308.TI.TELESUP	RP	%24212	MATCH
P30MxC3B.TIXMxC3B.PATCHIX	DBSCHEMA.PUB.SYS	RP	%100343	MATCH
P31MxC3B.TIXMxC3B.PATCHIX	DBSTORE.PUB.SYS	RP	%144217	MATCH
P32MxC3B.TIXMxC3B.PATCHIX	DBRESTOR.PUB.SYS	RP	%153501	MATCH
P33MxC3B.TIXMxC3B.PATCHIX	DBUNLOAD.PUB.SYS	RP	%164562	MATCH

-----+dn

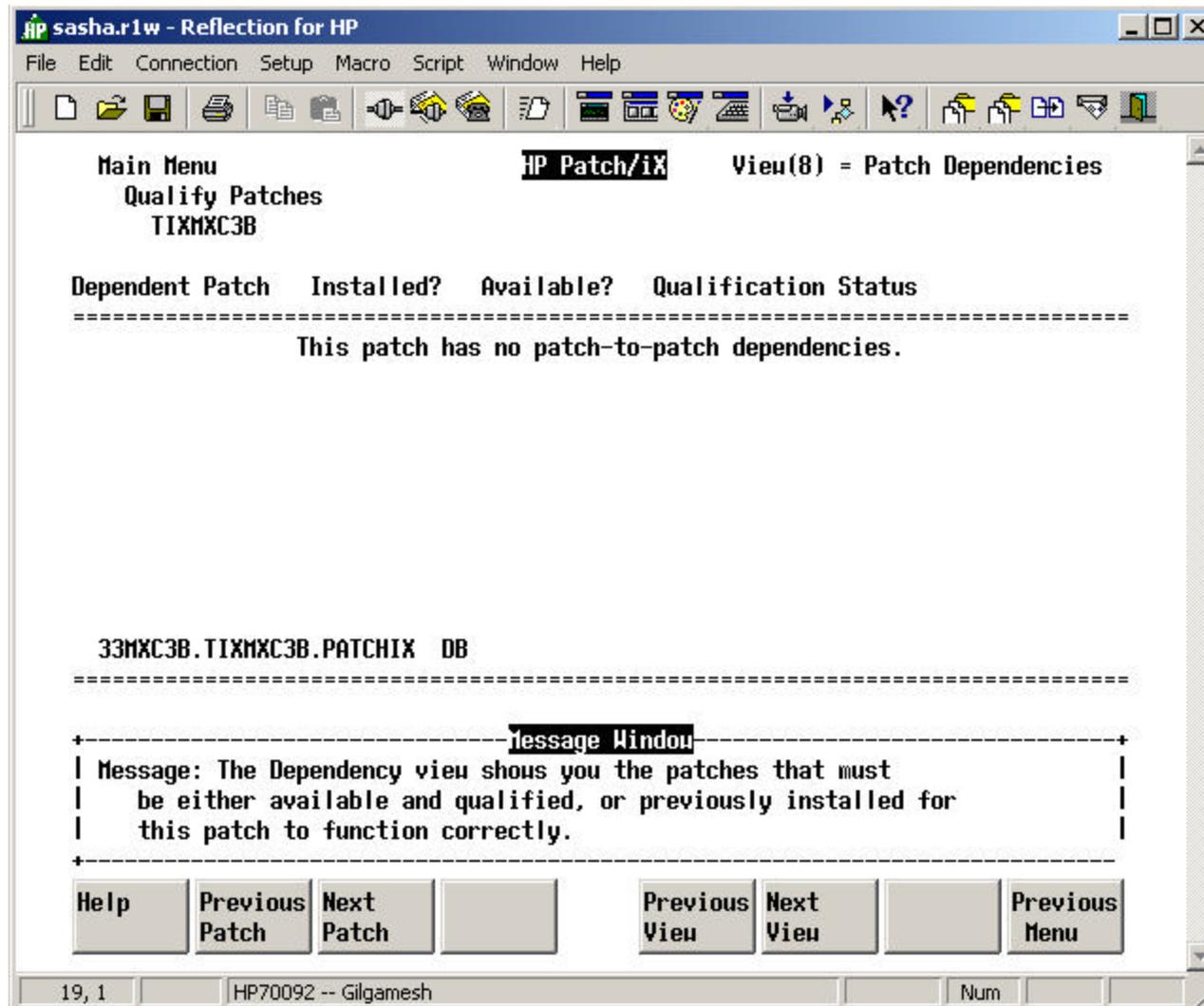
**Message Window**

Message: The Component view shows you the files and procedures that are modified by this patch.

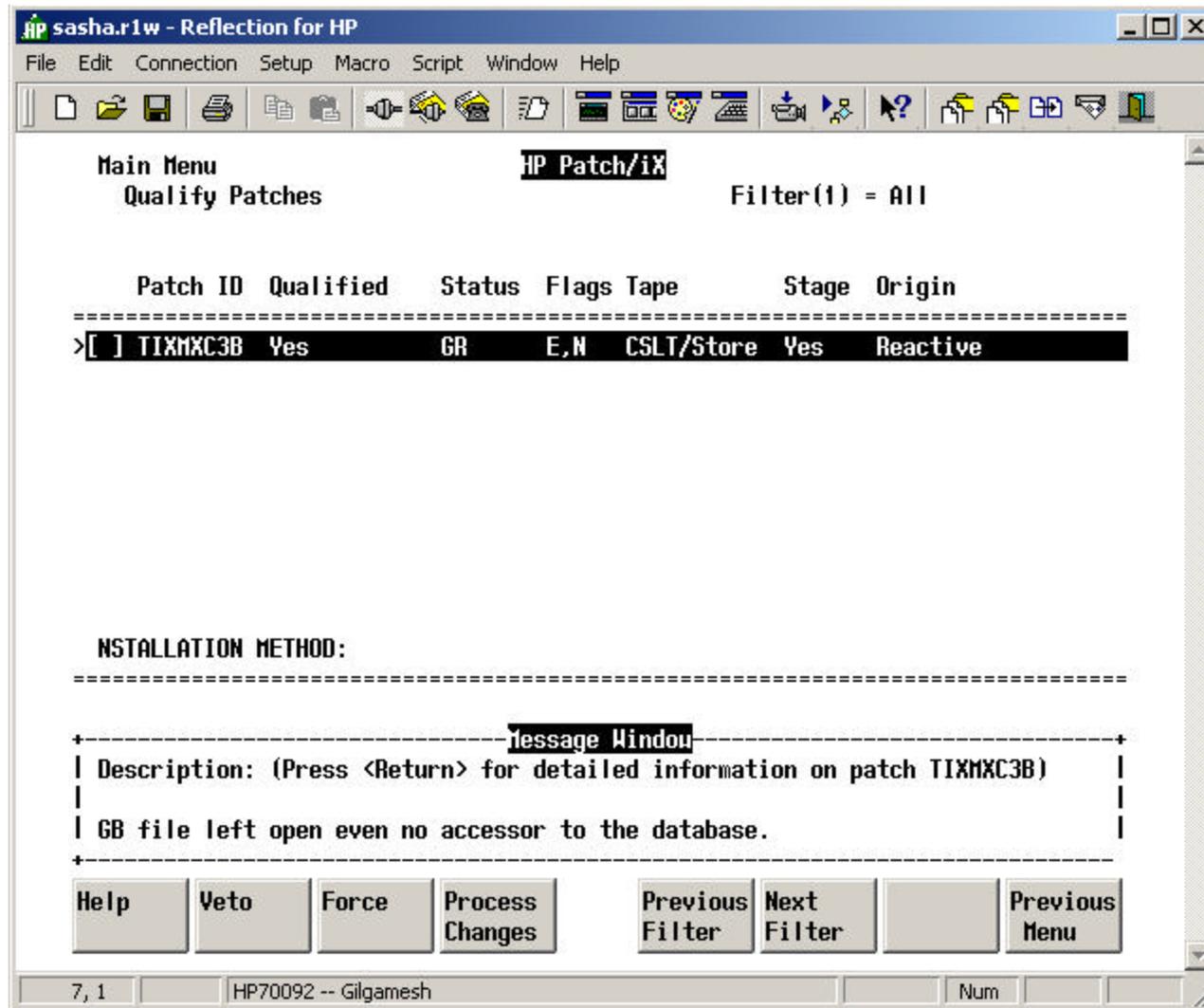
Buttons: Help, Previous Patch, Next Patch, Previous View, Next View, Previous Menu

Status bar: 19, 1 | HP70092 -- Gilgamesh | Num

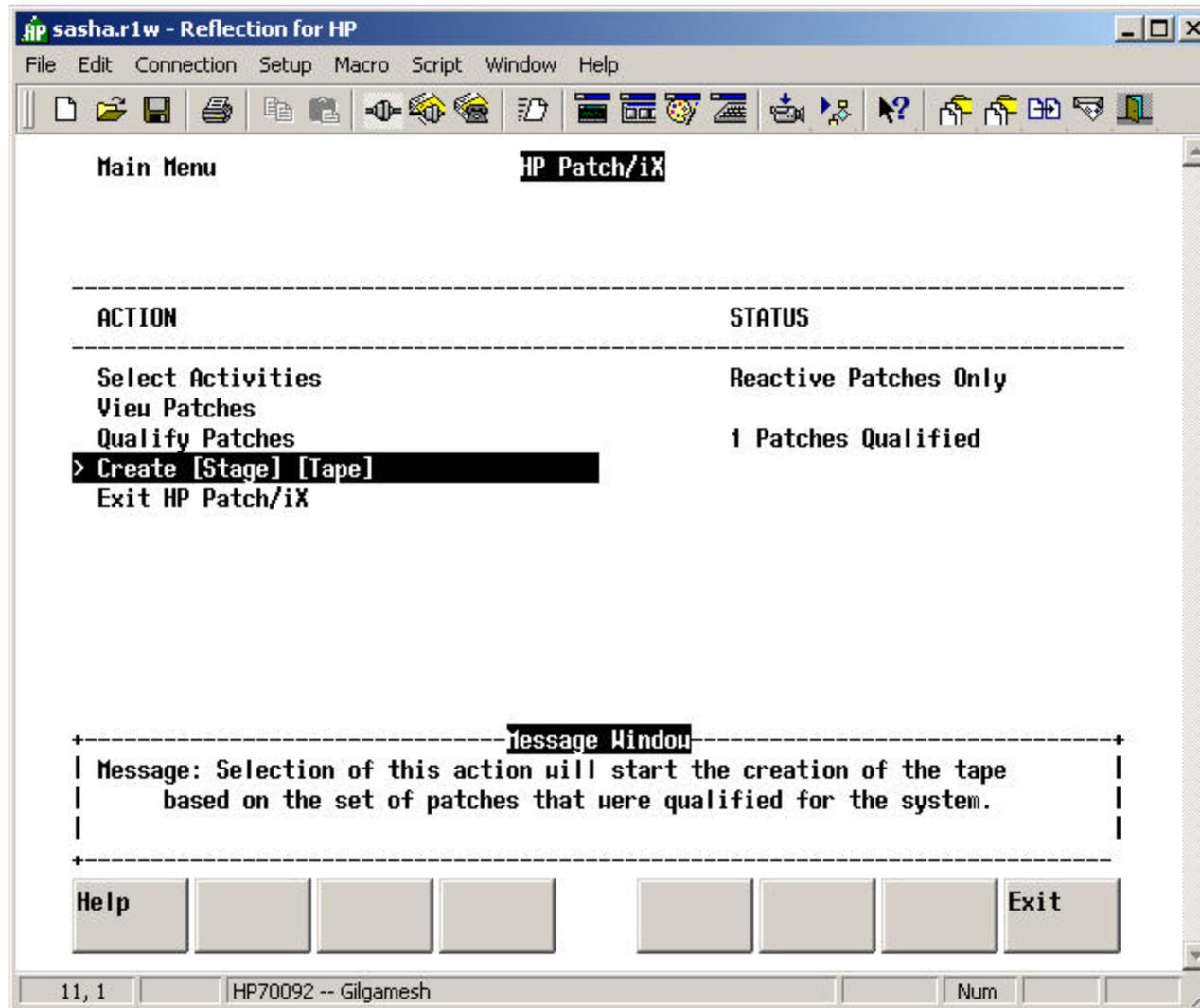
# View(8) = Patch Dependencies



# Back to Qualification Screen

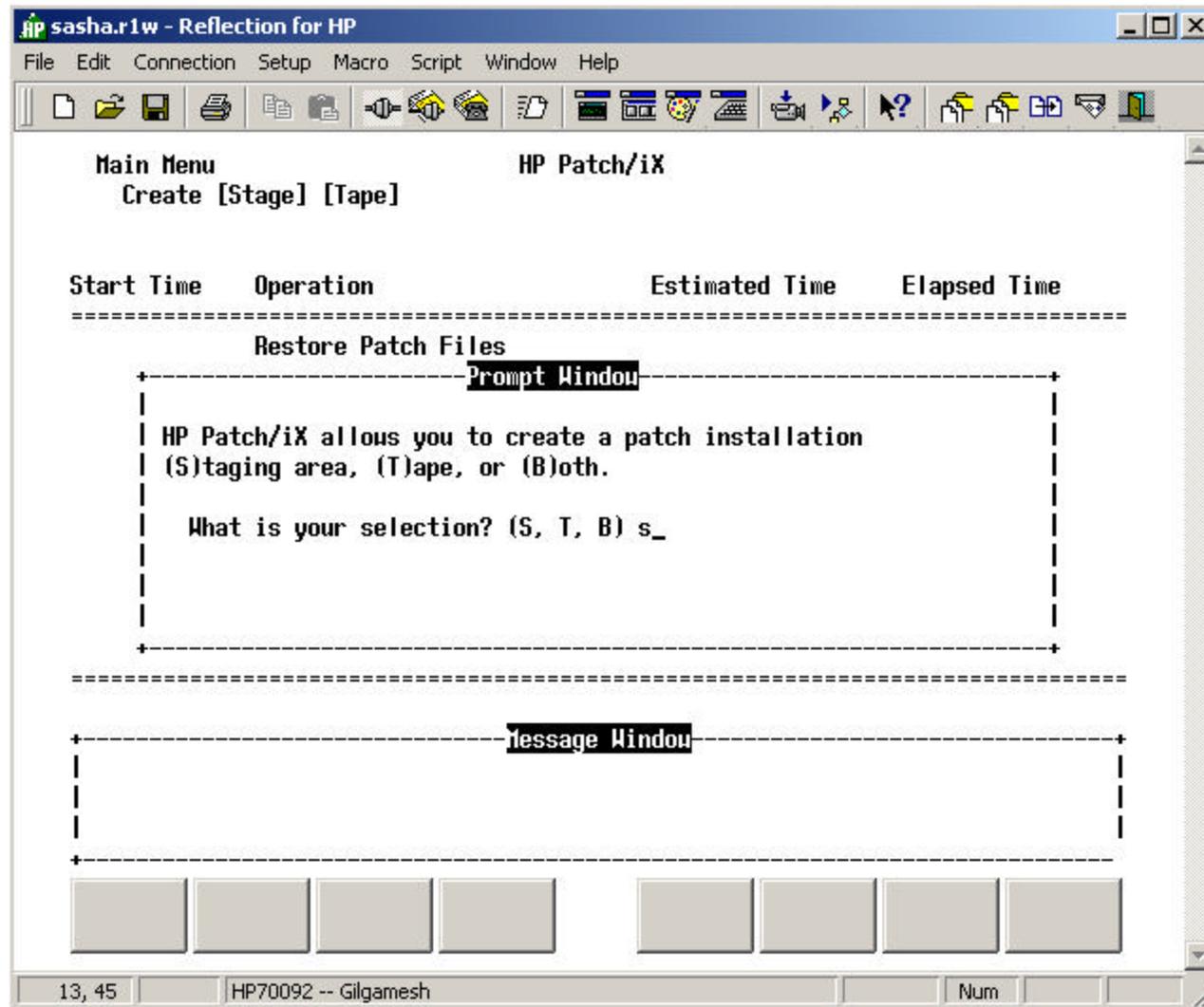


# Main Menu - Create [Stage] [Tape]



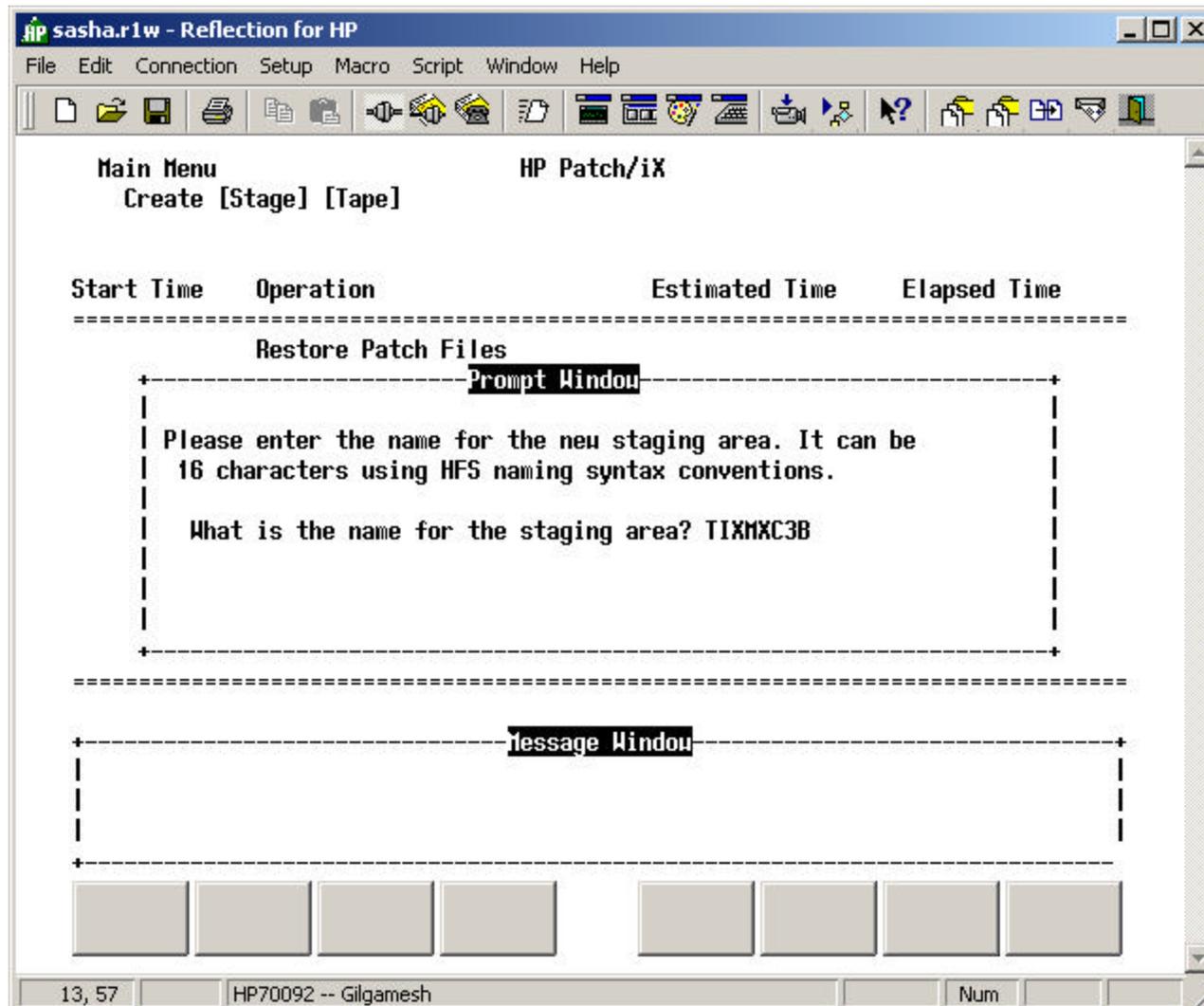
Note that since the patch is stageable and we initialized Stage/iX, we are now given the opportunity to stage the patch.

# Stage, Tape or Both?



We'll just create the staging area.

# Name Staging Area



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).

# Creating the Stage

The screenshot shows the HP Patch/iX software interface. At the top, the title bar reads "HP sasha.r1w - Reflection for HP". Below the title bar is a menu bar with "File", "Edit", "Connection", "Setup", "Macro", "Script", "Window", and "Help". A toolbar with various icons is located below the menu bar.

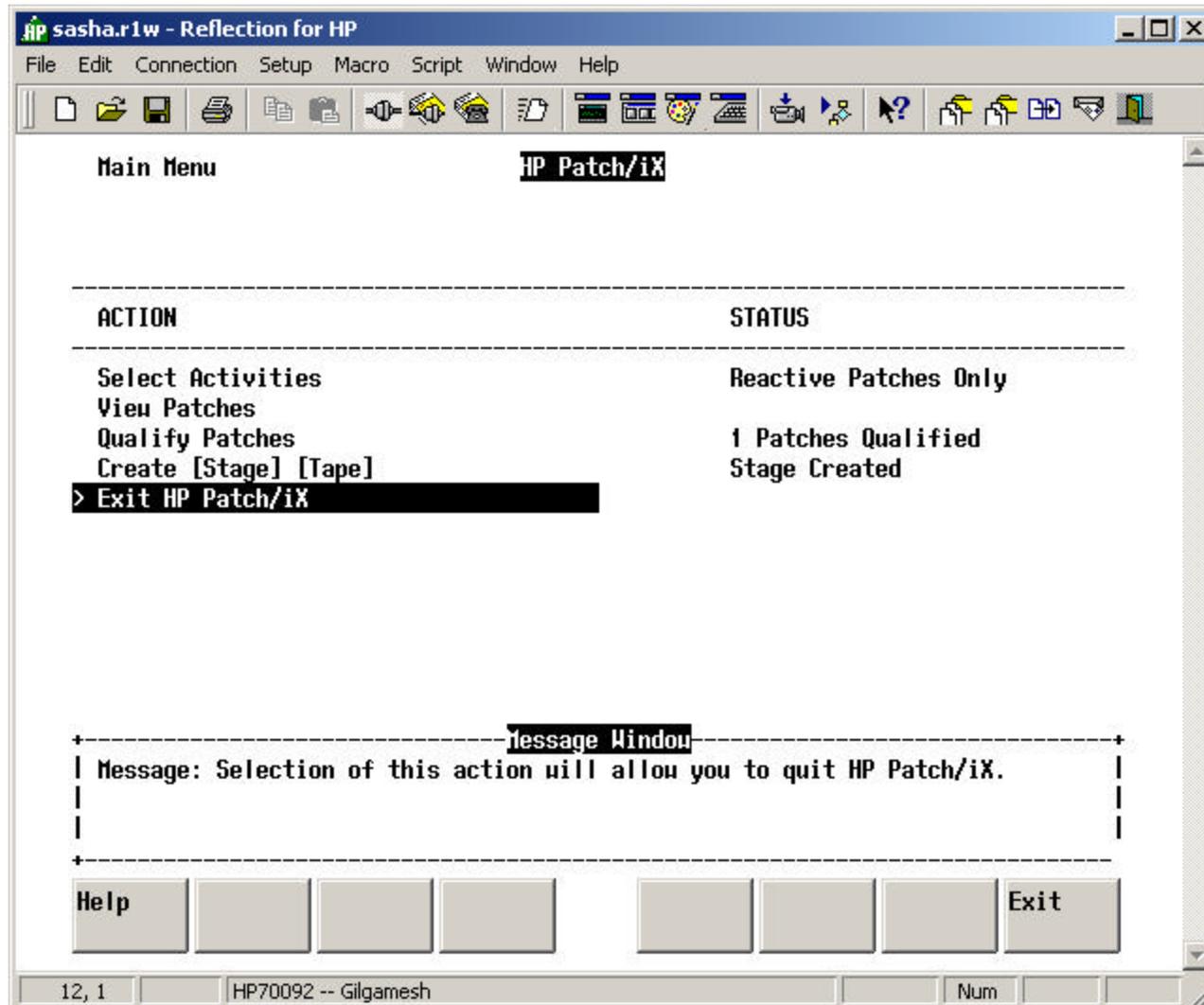
The main window is titled "Main Menu" and "HP Patch/iX". It displays a table with the following data:

Start Time	Operation	Estimated Time	Elapsed Time
12:15:59	Restore Patch Files	Not Required	
	Modifying Libraries	03:00	00:12
	Create A New Start PME	02:00	
	Create the Tape	No Tape Requested	
	Create the Stage	04:00	

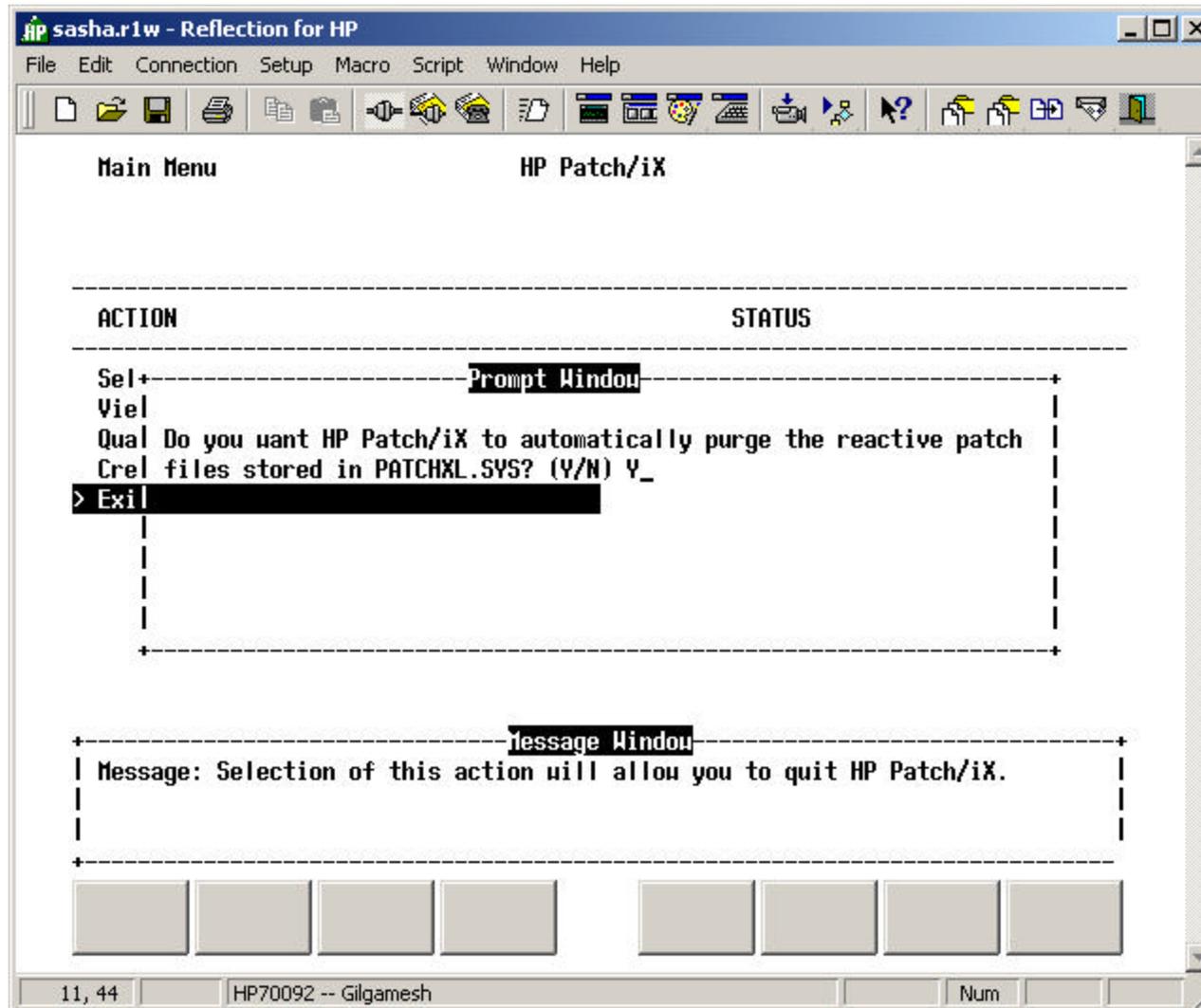
Below the table is a "Message Window" containing the text: "Message: Currently Modifying the staged SL in SL.INSTALL.SYS." with a progress indicator consisting of a left arrow, a series of dots, and a right arrow.

At the bottom of the window, there are several status fields: "17, 80", "HP70092 -- Gilgamesh", and "Num".

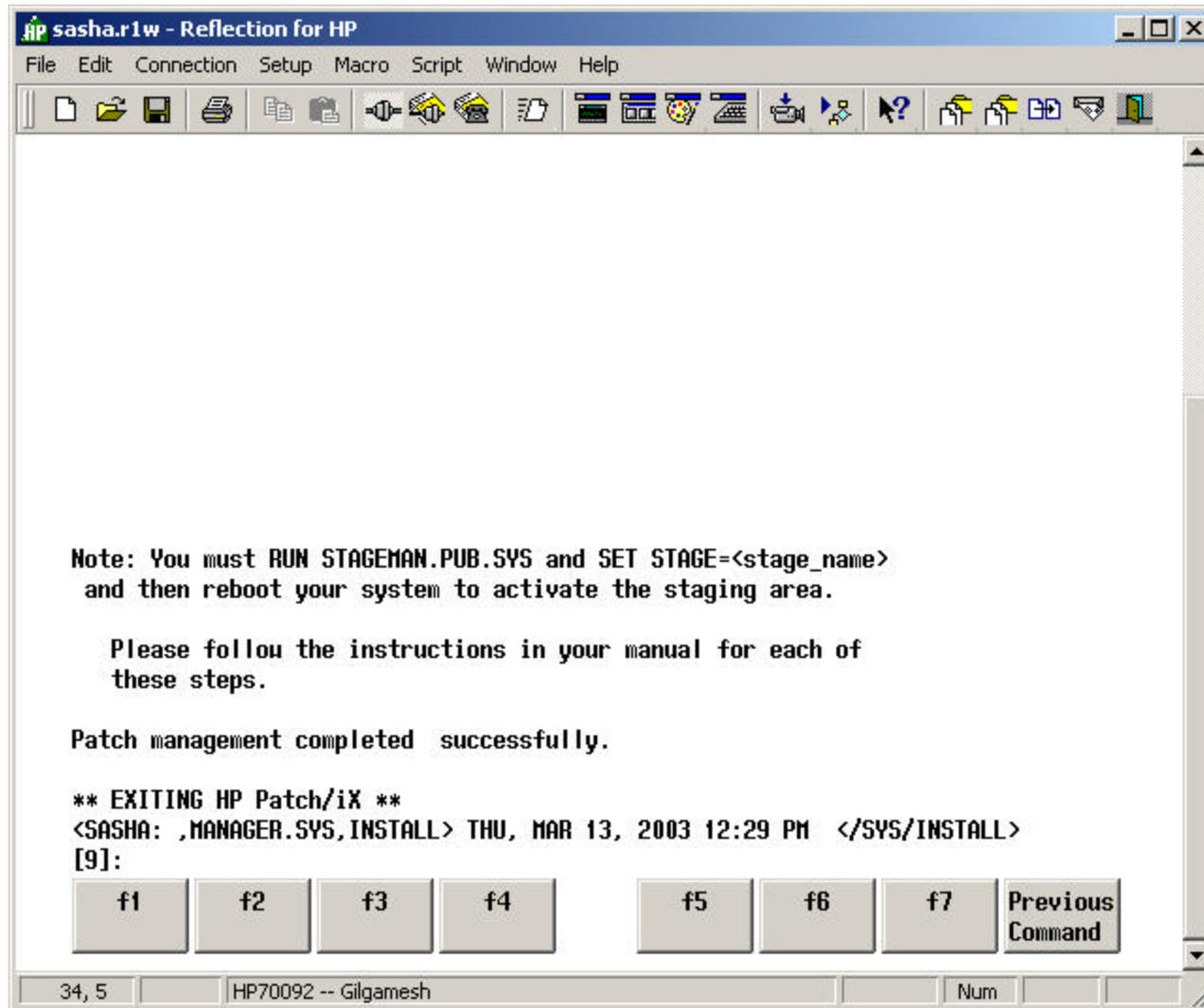
# Main Menu - Exit



# Purge files in PATCHXL.SYS?



# What to do next?



# 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	SIZE	TYP	LOGICAL EOF	RECORD LIMIT R/B	SPACE SECTORS	#X	MX	FILENAME
	16M	HBD	0	67107839	1	32	1 *	TIXMXC3B/
	16M	HBD	0	67107839	1	32	1 *	base_archive/
	16M	HBD	0	67107839	1	32	1 *	export/
	16M	HBD	0	67107839	1	32	1 *	import/
	1536M	FB	52	52	1	624	1 1	stage_globals

```
PATH= /SYS/hpstage/TIXMXC3B/
```

CODE	SIZE	TYP	LOGICAL EOF	RECORD LIMIT R/B	SPACE SECTORS	#X	MX	FILENAME
	1276B	VA	275	1023	1	256	1 *	AUTOLOG.INSTALL.SYS
NMPRG	128M	FB	327	327	1	336	1 8	DBBIGSET.PUB.SYS
PROG	128M	FB	78	78	1	80	1 1	DBCONV.PUB.SYS
PROG	128M	FB	66	66	1	80	1 1	DBDRIVCH.PUB.SYS
NMPRG	128M	FB	508	508	1	512	1 8	DBDRIVER.PUB.SYS
PROG	128M	FB	14	14	1	16	1 1	DBDUMP.PUB.SYS
NMPRG	128M	FB	254	254	1	256	1 8	DBLOAD.PUB.SYS
PROG	128M	FB	439	439	1	448	1 1	DBRCVCH.PUB.SYS
NMPRG	128M	FB	1156	1156	1	1168	1 8	DBRECOV.PUB.SYS
PROG	128M	FB	29	29	1	32	1 1	DBRESTOR.PUB.SYS
NMPRG	128M	FB	879	879	1	880	1 8	DBSCHEMA.PUB.SYS
PROG	128M	FB	34	34	1	48	1 1	DBSTORE.PUB.SYS
NMPRG	128M	FB	277	277	1	288	1 8	DBUNLOAD.PUB.SYS
NMPRG	128M	FB	1653	1653	1	1664	1 8	DBUTIL.PUB.SYS
PROG	128M	FB	55	55	1	64	1 1	DBUTILB.PUB.SYS
	80B	FA	616	8000	3	512	1 *	HPSMINFO.PUB.SYS
PROG	128M	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	*	PMSWINFO.PUB.SYS
SL	128M	FB	167568	320000	1	167936	1	*	SL.PUB.SYS
	80B	FA	185	15000	3	64	1	*	STAGELOG.INSTALL.SYS
NMPRG	128M	FB	248	291	1	256	1	8	SYTI0308.TI.TELESUP
MGCAT	128M	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
NMXL	128M	FB	68165	4096000	1	69280	1	*	XL.PUB.SYS
	512M	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
```

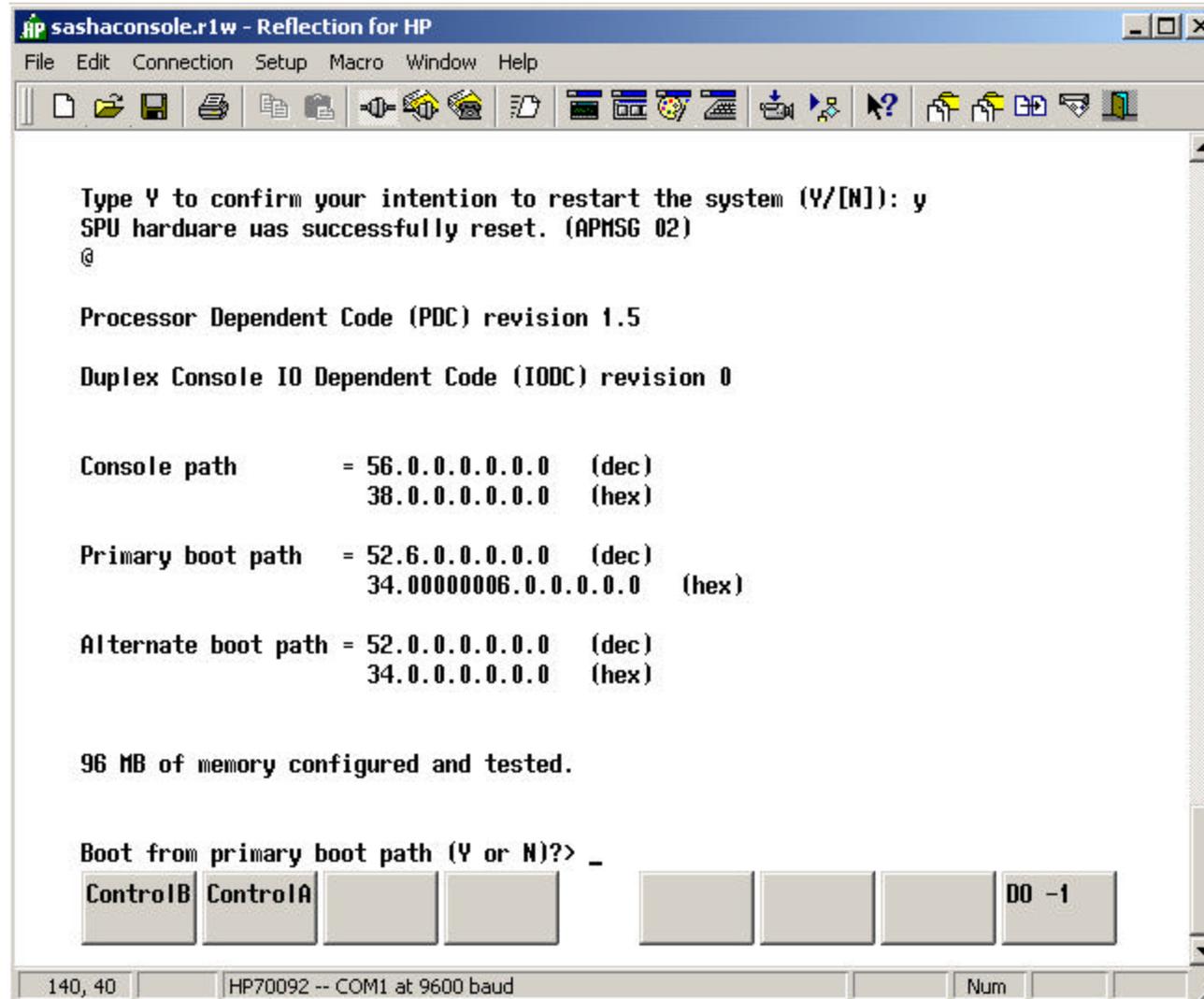
```
TurboIMAGE Overall VUF:  
HP30391C.09.10 TurboIMAGE/XL
```

# System Shutdown

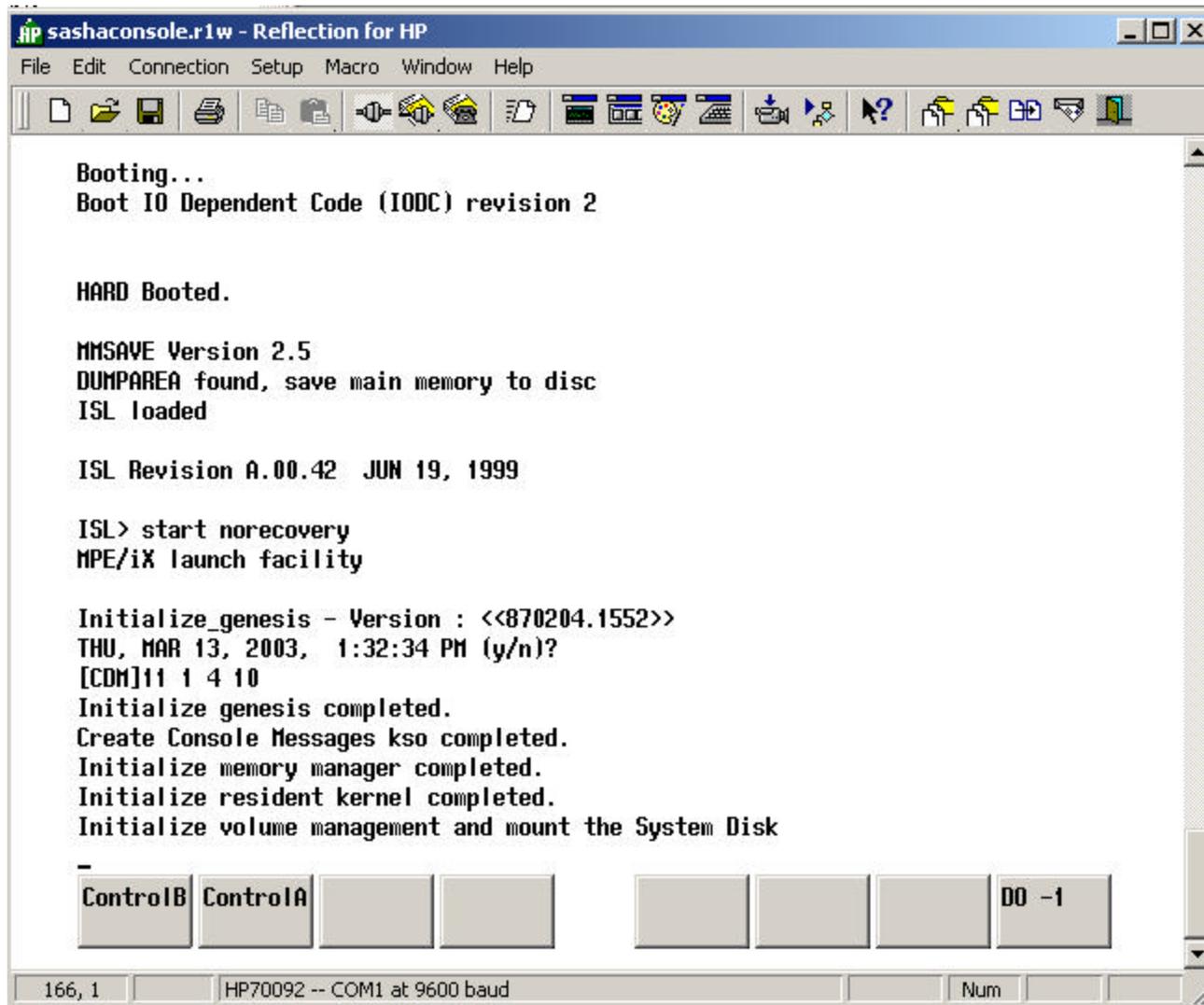
```
=shutdown  
Shutdown of operating system begins. (Shut 1)  
Shutdown of user processes begins. (Shut 2)  
Shutdown of jobs & sessions begins. (Shut 3)  
Spoolers notified of a shutdown. (Shut 16)  
13:01/49/Output spooler, LDEV #6: Cannot open physical device.  
13:01/49/Output spooler, LDEV #6: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

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

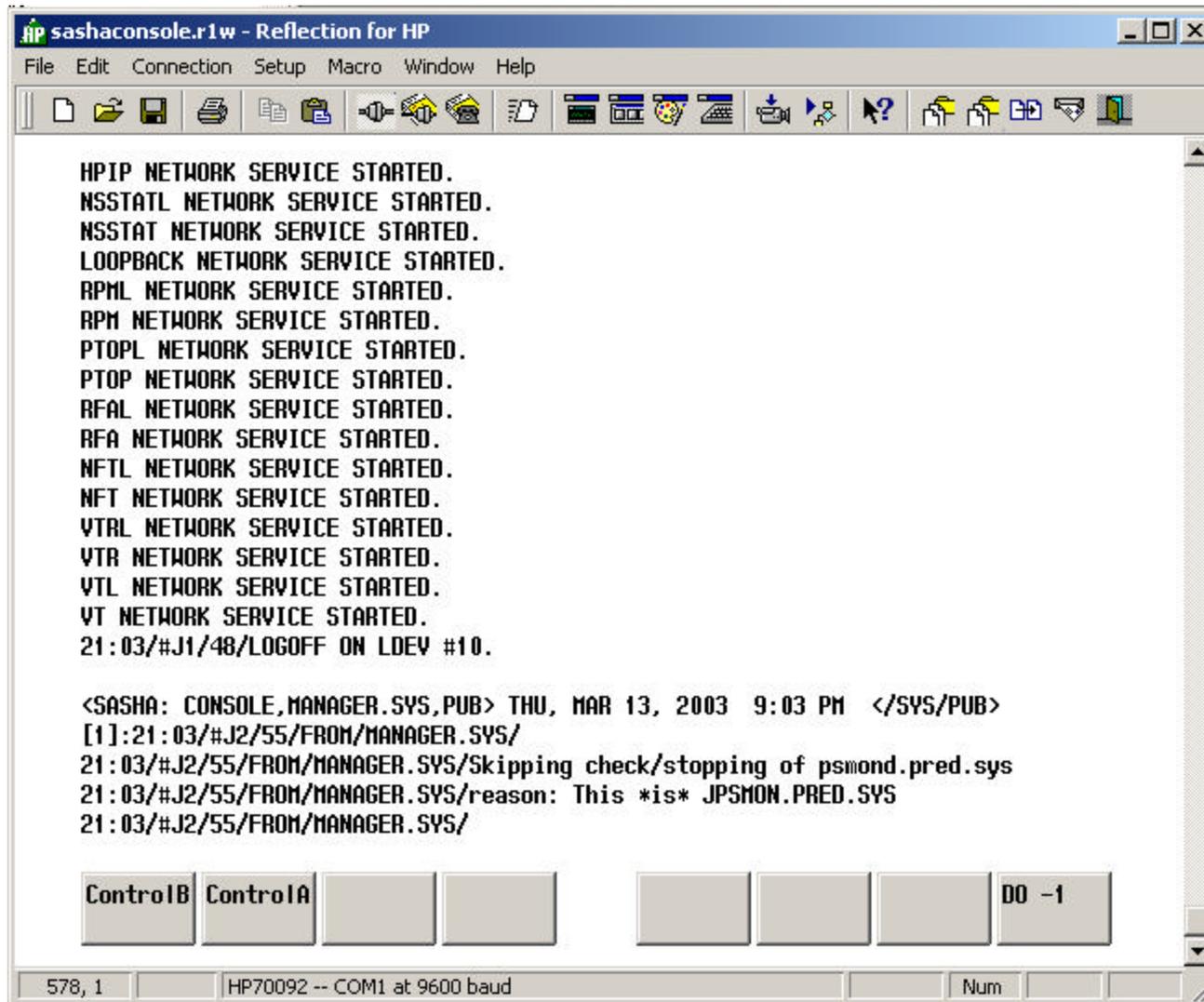
# Boot



# START NORECOVERY



# System Startup



# 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 area 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 area 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 environment. 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	SIZE	TYP	EOF	LIMIT	R/B	SECTORS	#X	MX	FILENAME
	16W	HBD	0	67107839	1	32	1	*	base_archive/
	72B	FA	119	29826161	1	256	1	32	current_log
	16W	HBD	0	67107839	1	32	1	*	export/
	16W	HBD	0	67107839	1	32	1	*	import/
	1536W	FB	52	52	1	624	1	1	stage_globals

# MPE/iX Updating and Patch Management

HP e3000 Solutions Symposium  
April 25, 2003

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