

MPE/iX Patch Management

HP e3000 Solutions Symposium
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Some useful URLs

Documentation: docs.hp.com

MPE/iX 5.5	docs.hp.com/mpeix/5.5/index.html
MPE/iX 6.0	docs.hp.com/mpeix/6.0/index.html
MPE/iX 6.5	docs.hp.com/mpeix/6.5/index.html
MPE/iX 7.0	docs.hp.com/mpeix/7.0/index.html
Above combined	docs.hp.com/all/index.html
Old-style 5.0 & 5.5	docs.hp.com/mpeix/docs5/index.html

“jazz”	jazz.external.hp.com
IT Resource Center	itrc.hp.com
Mark Bixby’s port & utility site	www.bixby.org/mark/
Allegro Consultants	www.allegro.com
Beechglen	www.beechglen.com
John Burke’s with “Best Of”, etc.	www.burke-consulting.com

What is a patch and what is patch management?

Types: bug fix and minor enhancement

How to read a patch name (e.g. MPELX57A)

- 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

MPELX57A - 1

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 - more...
- training and education
- planning, design, and implementation
- forums

MPELX57A patch description

Note: Obtaining software or data from HP's Patch Database is governed by the [IT Resource Center Terms of Use](#). Use of software or data obtained from HP's Patch Database is governed by [HP Software License Terms](#). Please read them before you proceed.

Download

 this patch. Alternatively, you may retrieve this patch via anonymous *ftp(1)* from ftp://ftp.itrc.hp.com/mpe-ix_patches/c.60.00/MPELX57A using your browser's "Save Link As" (Netscape) or "Save Target As" (MSIE) operation.

patch files	dependencies	supersedes	size	critical	symptoms	defect description	installation instructions
-----------------------------	------------------------------	----------------------------	----------------------	--------------------------	--------------------------	------------------------------------	---

Patch Name: MPELX57A

Path Name: /mpe-ix_patches/c.60.00/MPELX57A (4038912)

Patch Description: Store/fullldb fails to store Allbase archive logs; restore d

Last Updated: 11/28/00

Date Entered: 05/09/00

Patch Status: Patch is General Release

SR Number:
5003-387290 1653-282285 4701-390435

Dependency SCO: None

MPELX57A - 2

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(CA55893)

Patch Files:

ORGFIL	TARFIL	PATCH TYPE
COOLX57A.MPELX57A.PATCHIX	CICATERR.PUB.SYS	RP
STOLX57A.MPELX57A.PATCHIX	STORECAT.PUB.SYS	RP
JOBLX57A.MPELX57A.PATCHIX	JOB.PUB.SYS	RP
UUILX57A.MPELX57A.PATCHIX	UISSEG2	
UOOLX57A.MPELX57A.PATCHIX	UISSEG3	
VSTLX57A.MPELX57A.PATCHIX	VSTORCAT.PUB.SYS	RP
UALLX57A.MPELX57A.PATCHIX	ALLOCSEG	
CATLX57A.MPELX57A.PATCHIX	CATALOG.PUB.SYS	RP
CICLX57A.MPELX57A.PATCHIX	CICAT.PUB.SYS	RP
NSTLX57A.MPELX57A.PATCHIX	STORE.PUB.SYS	RP
RO8LX57A.MPELX57A.PATCHIX	TSTORE_01	RP
ILOLX57A.MPELX57A.PATCHIX		
LOOLX57A.MPELX57A.PATCHIX		
GENLX57A.MPELX57A.PATCHIX		
REFLX57A.MPELX57A.PATCHIX		
MPELX57A.MPELX57A.PATCHIX		
AUTOPAT.HP31900A.PATCHXL		
SHOWPTCH.HP31900A.PATCHXL		

Patch Package Size: 56896 sectors

General Release Text:

Known Conflicts

=====

Not applicable

Patch-to-Patch Dependencies

=====

Not applicable

External Symptoms, Cause, Fix Description

=====

1653282285:

Store fails to store dbchange change files (names end in CF and have a file code of -421) when FULLDB is used either by default with online=start/end or when specified on the store command.

4701390435:

MPELX57A - 3

```
Store fails to store Allbase/SQL archive logfiles (filecode -497) when
FULLDB is used either by default with online=start/end or when
specified on the store command.

5003387290:
Restore can report "FILES NOT ON MEDIA" when performing a restore of
database files from a backup when in fact all of the database files
were sucessfully restored. Whether this message is seen or not
depends upon the fileset specified on the restore command.

For the first 2 fixes, store was assuming that files with filecode
-421 and -497 were part of a database and that the database software
would tell it about them. This assumption was wrong, these files
are not included in the list of files which database software returns
to store.

Customer Environment Changes
=====
Not applicable

Hardware Dependencies
=====
Not applicable

Software Product/Application Dependencies
=====
Not applicable

Product Version Information
=====
MPELX57(A) for 6.0 changes the version of STORE/TurboSTORE to C.60.18
MPELX57(B) for 6.5 changes the version of STORE/TurboSTORE to C.65.05

Dump Analysis
=====
Not applicable

Product Number/Name:
      HP31900  MPE/IX

Product VUF: C.16.01
```

MPELX57A - 4

OS Release VUF: C.60.00

Fix Release Version: A

Supersedes:

- (0) MPELX57 A
- (1) MPELX11 E
- (2) MPELX26 G
- (3) MPEKXR8 D
- (4) MPEKXL2 B
- (4) MPELX13 B
- (5) MPEKXW7 B
- (6) MPEKXH1 B
- (6) MPEKX66 B
- (7) MPEKXP4 A
- (8) MPEKXMO C
- (4) MPEKXJ4 H
- (5) MPELX14 D
- (6) MPEKXH3 D
- (7) MPEKXX2 C
- (8) MPEKX43 B
- (9) MPEKXW2 A
- (10) MPEKXQ2 B
- (11) MPEJXX0 C
- (12) MPEKXG5 C
- (13) MPEKXN1 C
- (14) MPEKXA7 D
- (15) MPEKXM9 B
- (16) MPEKXL1 B

Criticality:

- (1) The system could experience a System failure without the patch.

Distribution Recommendation:

For a FOS product and should be installed on all systems.

Update Required: Yes

Special Instructions:

NO SPECIAL INSTRUCTIONS PROVIDED FOR THIS PATCH

Installation Instructions:

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Criticality:

(1) The system could experience a System failure without the patch.

Distribution Recommendation:

For a FOS product and should be installed on all systems.

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 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 unpack and restore all files before installing your patch.

Note! Please back up your system before you patch.

[Top of Patch Details](#)



→ printing instructions


How do I know what patches and software are installed?

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

How do I obtain patches?

- On tape from the RC
- Download from the Internet
 - 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 handouts)
 - Patchman (see handouts for a patchman run example)

Main Patch Database


invent

patch database main

IT resource center

- [search](#)
- [online help](#)
- [contact hp](#)

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- **hp-ux**
available hp 9000 patches for series 800, 700, 400 and 300
- **mpe/ix**
all mpe/ix general release patches
- **domain/os**
available patches for the m68k and 88k architectures
- **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
- **hp-ux 10.x to 11.x patch equivalency tables**
information regarding the status of hp-ux 10.x patches when migrating to hp-ux 11.0
- **y2k bundles**
patch bundles specific to y2k issues

retrieve a specific patch by entering the patch name (e.g. PHKL_1234):

learn more: software

- [hp-ux os](#)
- [mpe/ix os](#)
- [netservers](#)
- [strategies](#)


Welcome, John P. Burke!
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Patch Database

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patch database

related information

→ 3kworld.com

→ e3000 online

→ e3000 advisor

→ mpe/ix news

The MPE/iX patch download process has changed for both Release 5.5 and 6.0. It is critical that you download and use the new [UNPACKP command file](#) before attempting to install any patches from this site. Refer to the [MPE Patch Installation Guide](#) for instructions.

Select the patch categories you would like to browse or search (you may choose more than one). You may further limit the retrieved patches by providing a Search String at the bottom of the page.

Browse/Search Options:

Select at least one:

☐ C.55.00 patches

☐ C.60.00 patches

☐ C.65.00 patches


☐ Other MPE/iX patches

Search String (optional):

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mpe/ix patch installation 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

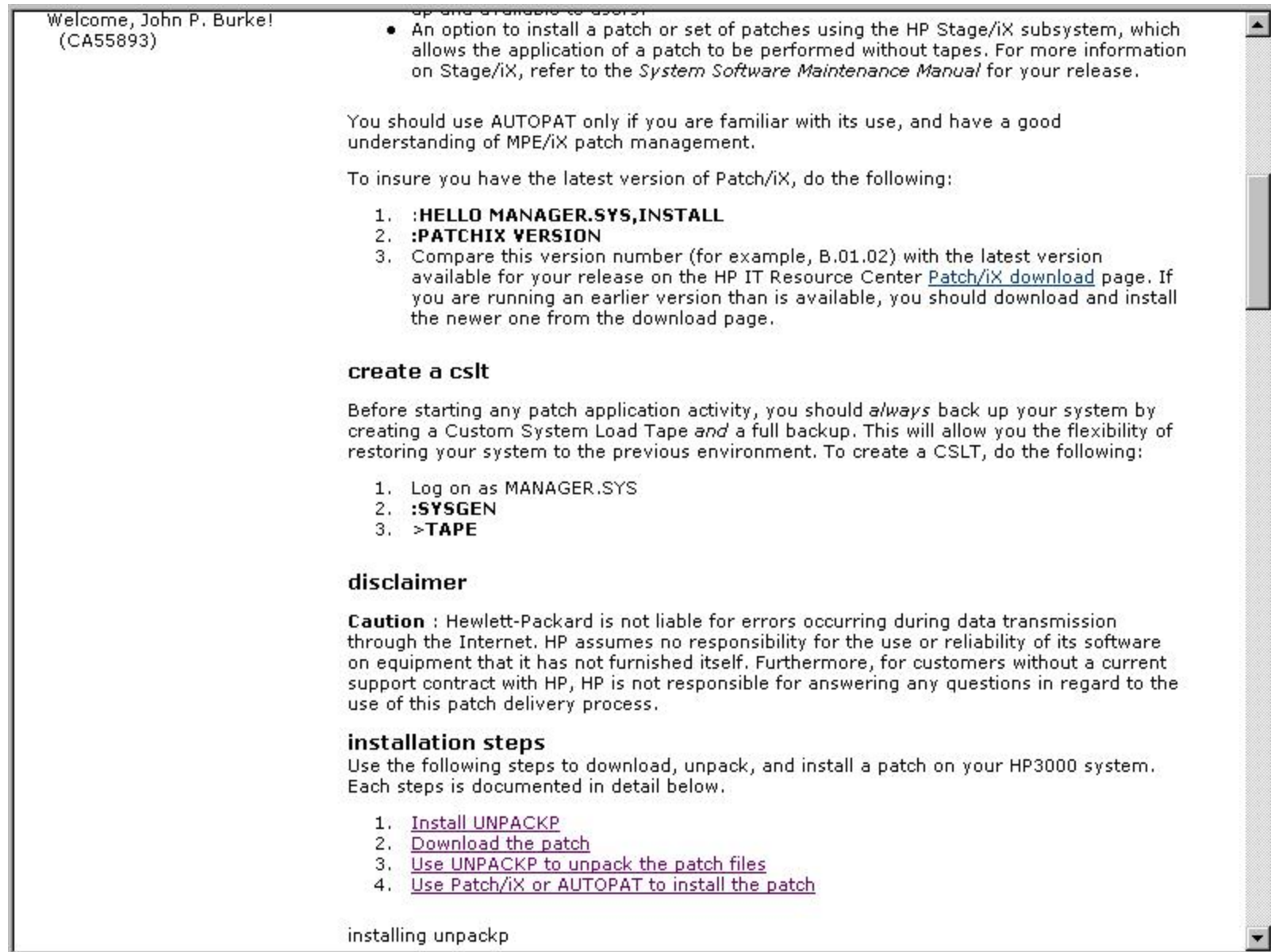
An MPE/iX Patch ID (also called an SCO ID) is used to track and maintain all information and code changes pertaining to the fix of a customer's problem. The Patch ID consists of eight alphanumeric characters, with the last character always being an alphabetic representation of the patch version. An example 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 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

Patch Installation Guide - 2



Patch Installation Guide - 3

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

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
```

Patch Installation Guide - 4

```
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
```

downloading 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
```

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```
...
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.
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

Patch Installation Guide - 6

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.

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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.




→ printing instructions

Patch/iX Download Page - 1

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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 5.5 (C.55.0x) is: [B.00.17](#) .

The latest version of Patch/iX for 6.0 (C.60.0x) is: [B.01.04](#) .

The latest version of Patch/iX for 6.5 (C.65.0x) is: [B.01.04](#) .

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:

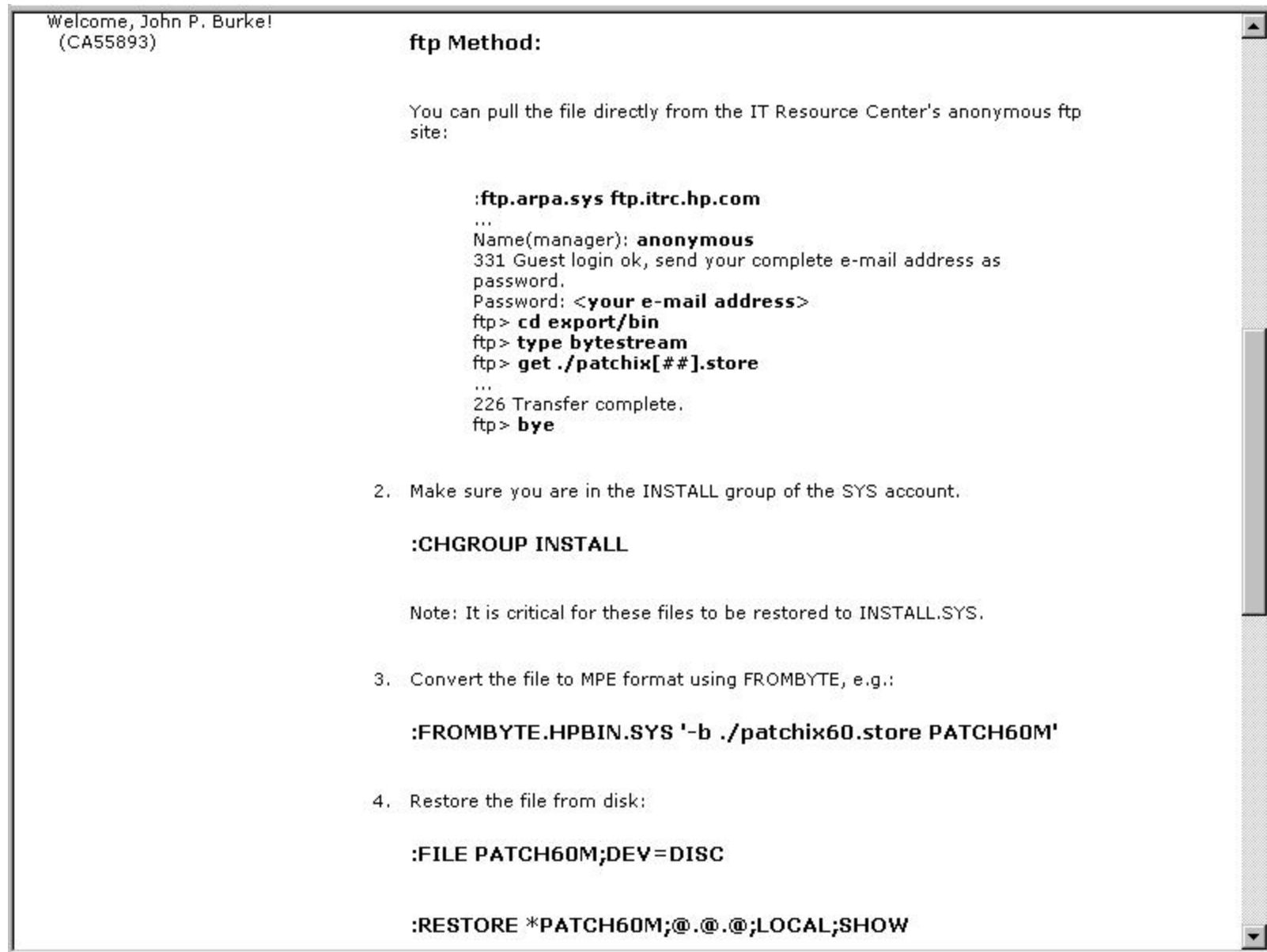
download method:

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

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).

Patch/iX Download Page - 2



Patch/iX Download Page - 3

```
: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  
AUTO CM  
AUTOLED  
AUTOSPTH  
PATCH000  
PATCHIX
```

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

```
ABLDINTX  
ACSUMLED  
ACSMCAT  
ACSMHLP  
ALKEDCAT  
ALKEDHLP  
AUTO CM  
AUTOLED  
AUTOSPTH  
PATCH000  
PATCHIX
```

Patch/iX Tips

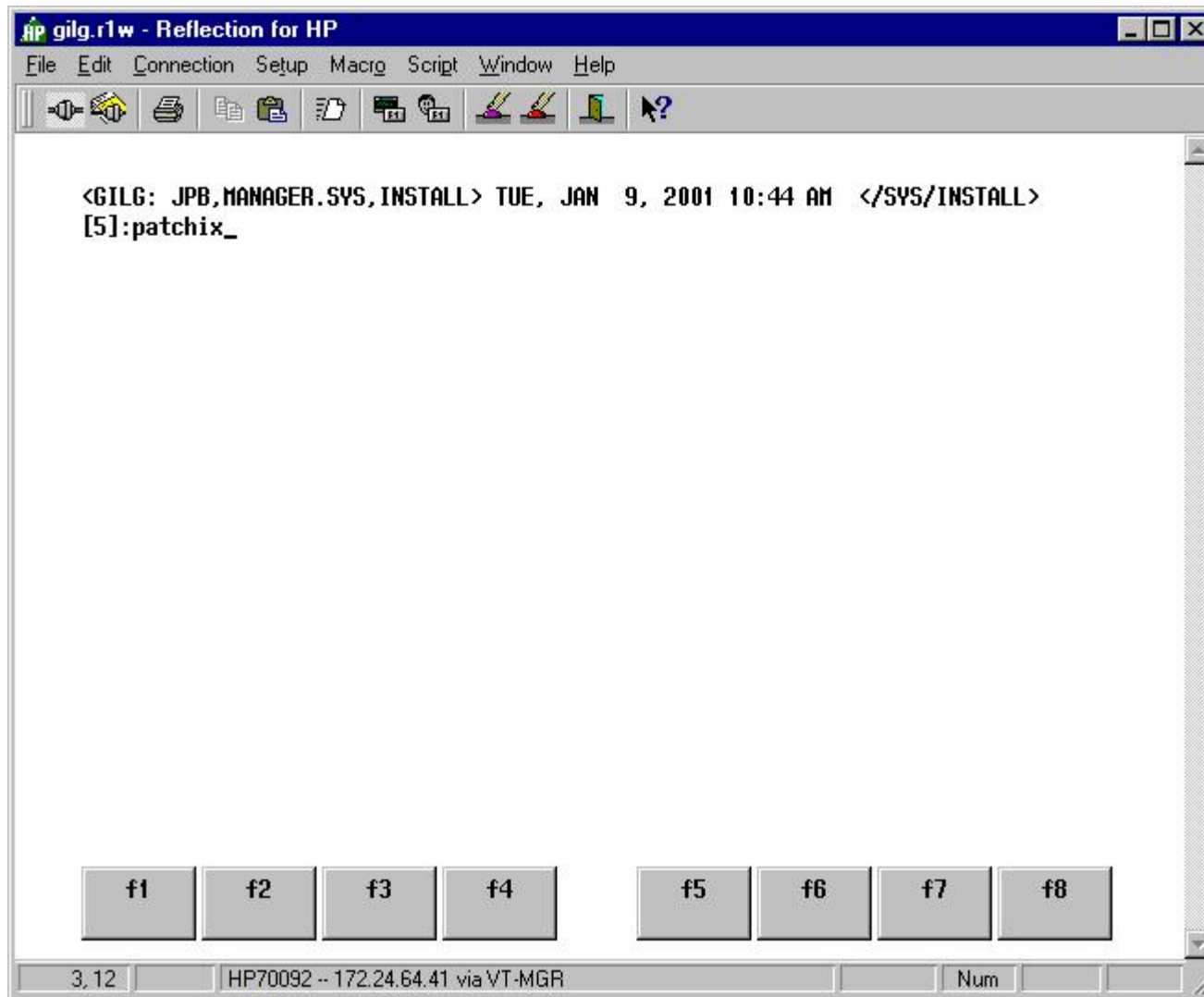
- Don't run it from the console (Phase I)
- Use the current Patch/iX version (tape (no!) or Internet)
- Use the current UNPACKP version
- Create a “patch book” for each session from PDF guides
- Put HPGROUP in HPPATH
- Make sure you have enough space on LDEV 1
- ALTSEC @.patchxl;delacd depending upon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

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

File Edit Connection Setup Macro Script Window Help

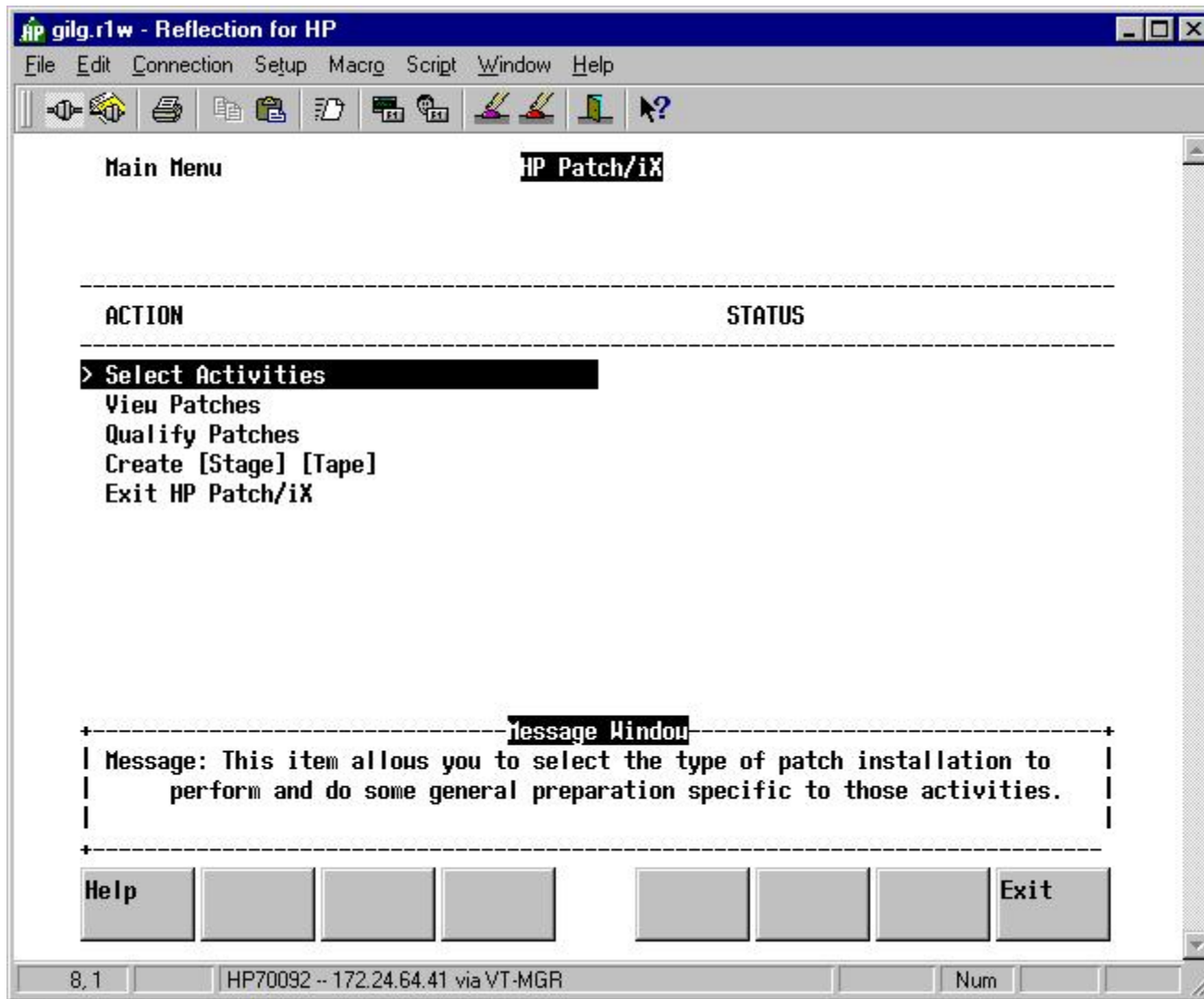
Main Menu HP Patch/iX

ACTION	STATUS
Prompt Window	
HP Patch/iX - B.01.04 (C) Hewlett-Packard CO.	
Please Enter Your Name: John Burke_	
Message Window	

13, 43 HP70092 -- 172.24.64.41 via VT-MGR Num

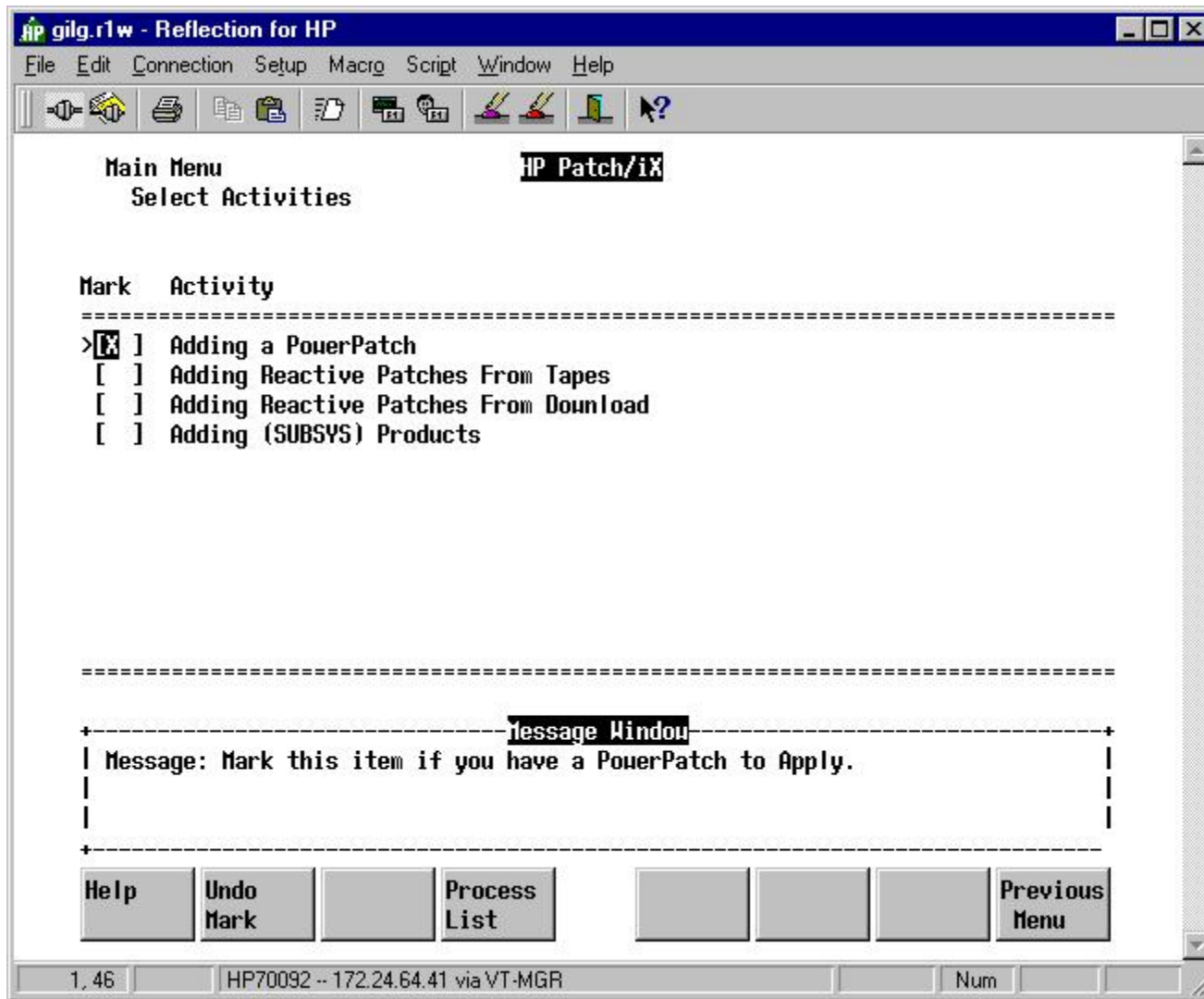
Enter your name here to identify this run of Patch/iX.

Main Menu - Select Activities



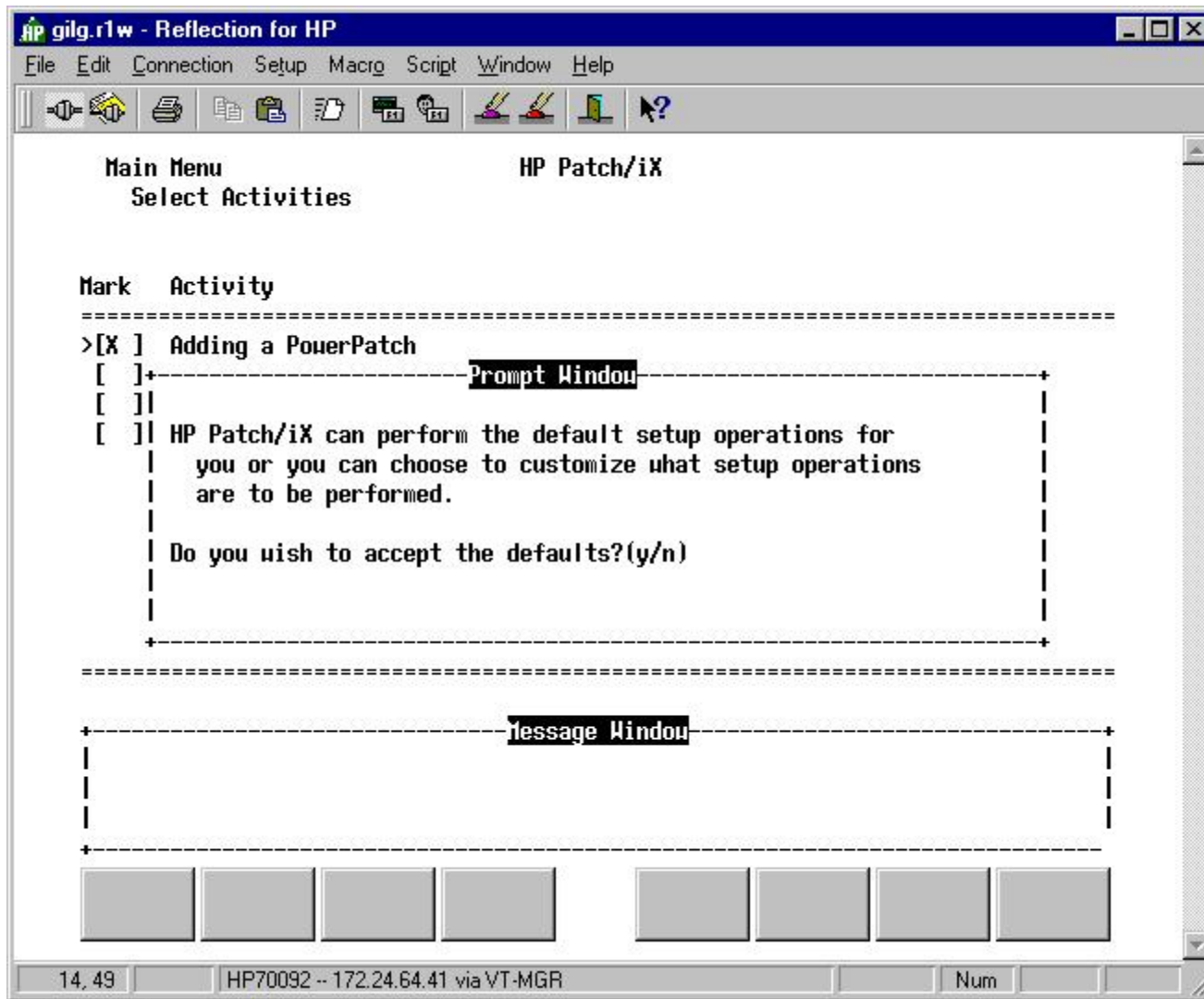
This is where you tell Patch/iX what you want to do. Hit RETURN to select this menu item.

Select Activity



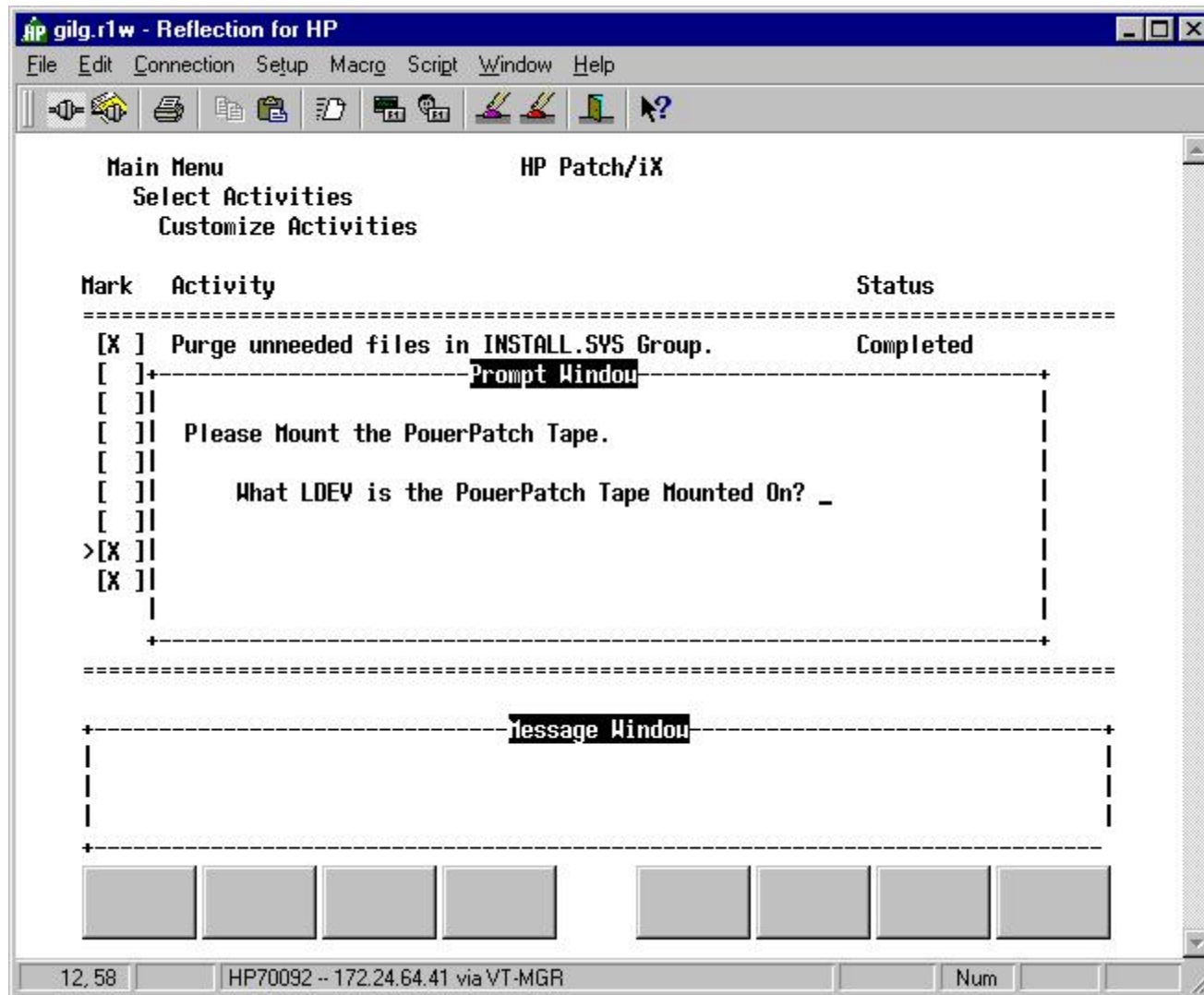
Press F2 to “mark” “Adding a PowerPatch” and then press F4 to process the list of activities. Note that you can apply a PowerPatch, add reactive patches and add SUBSYS products in one step. For now, SUBSYS products can not be staged and all PowerPatches to date have contained patches that can not be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

Accept default setup?



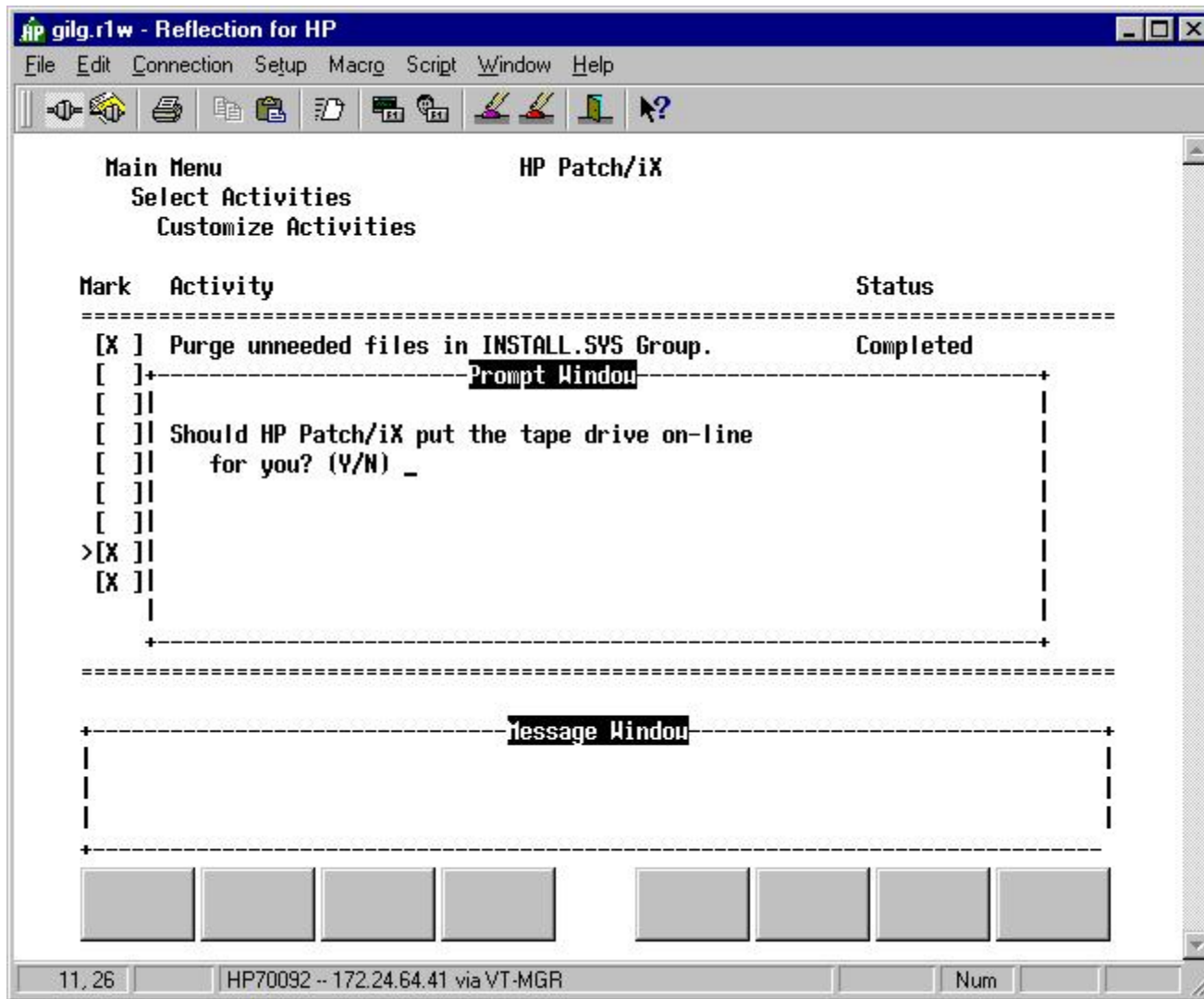
Generally speaking, you can say “yes” if you are just applying a PowerPatch. There will be more discussion on this in the section of the presentation on using Patch/iX and Stage/iX to apply a Reactive Patch.

Specify the location of PowerPatch tape



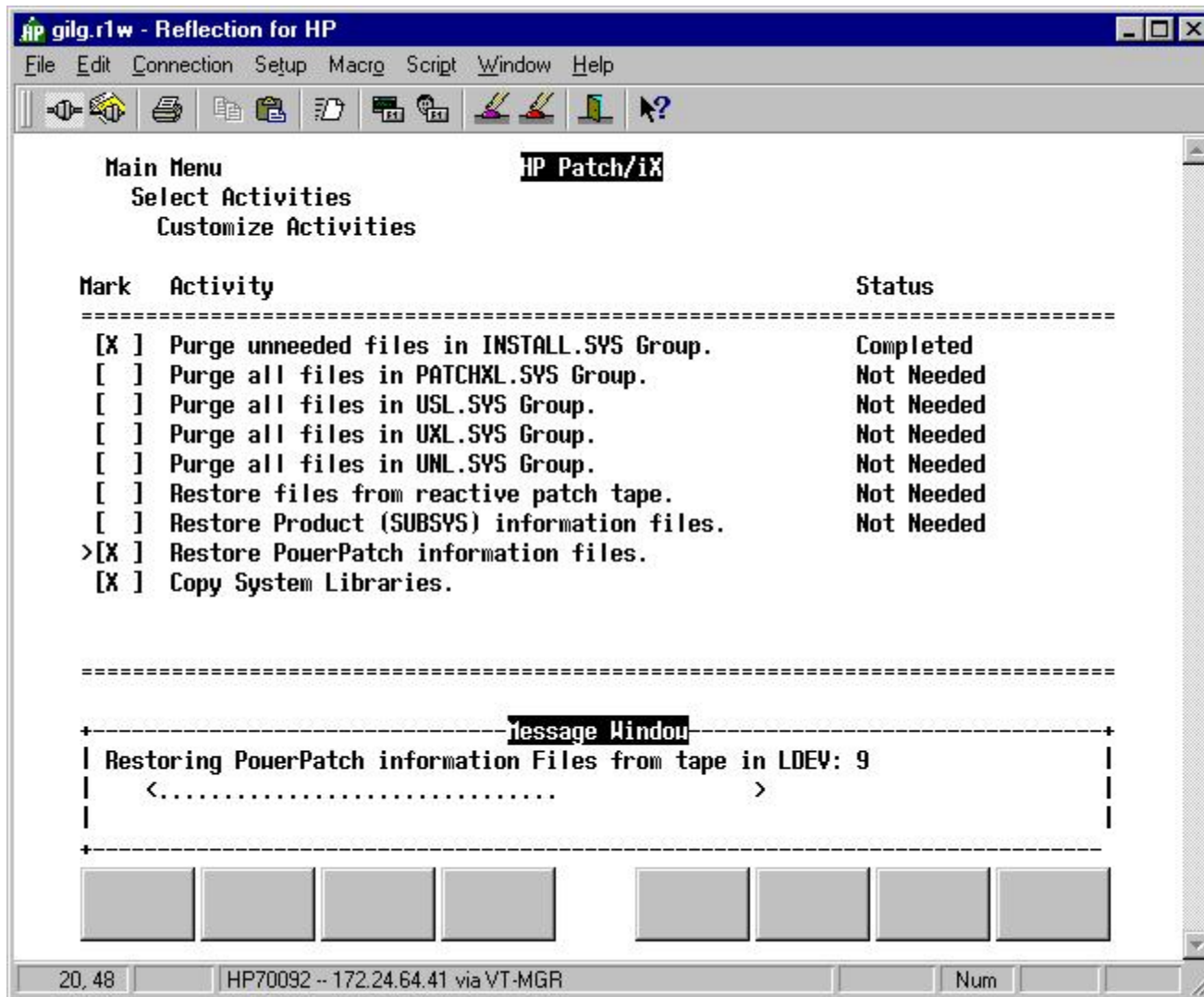
If you have the good fortune to have multiple tape drives, put the PowerPatch tape in a drive other than the boot tape drive. This will save you some time. Always put the tape you are going to use for the CSLT in the boot tape drive. Why?

Is the tape online?



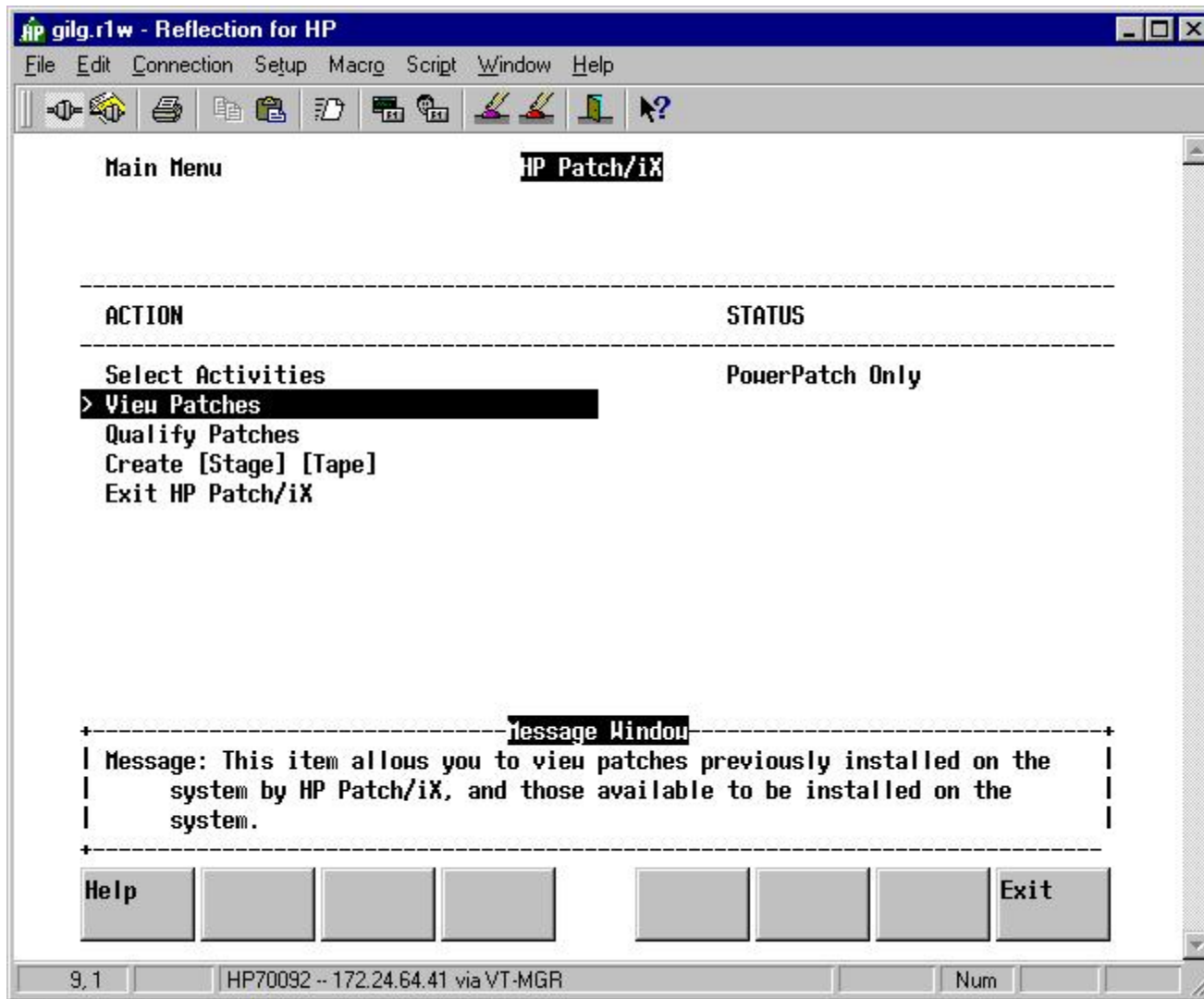
Patch/iX will put the tape online for you if it is not already online.

Performing the setup activities



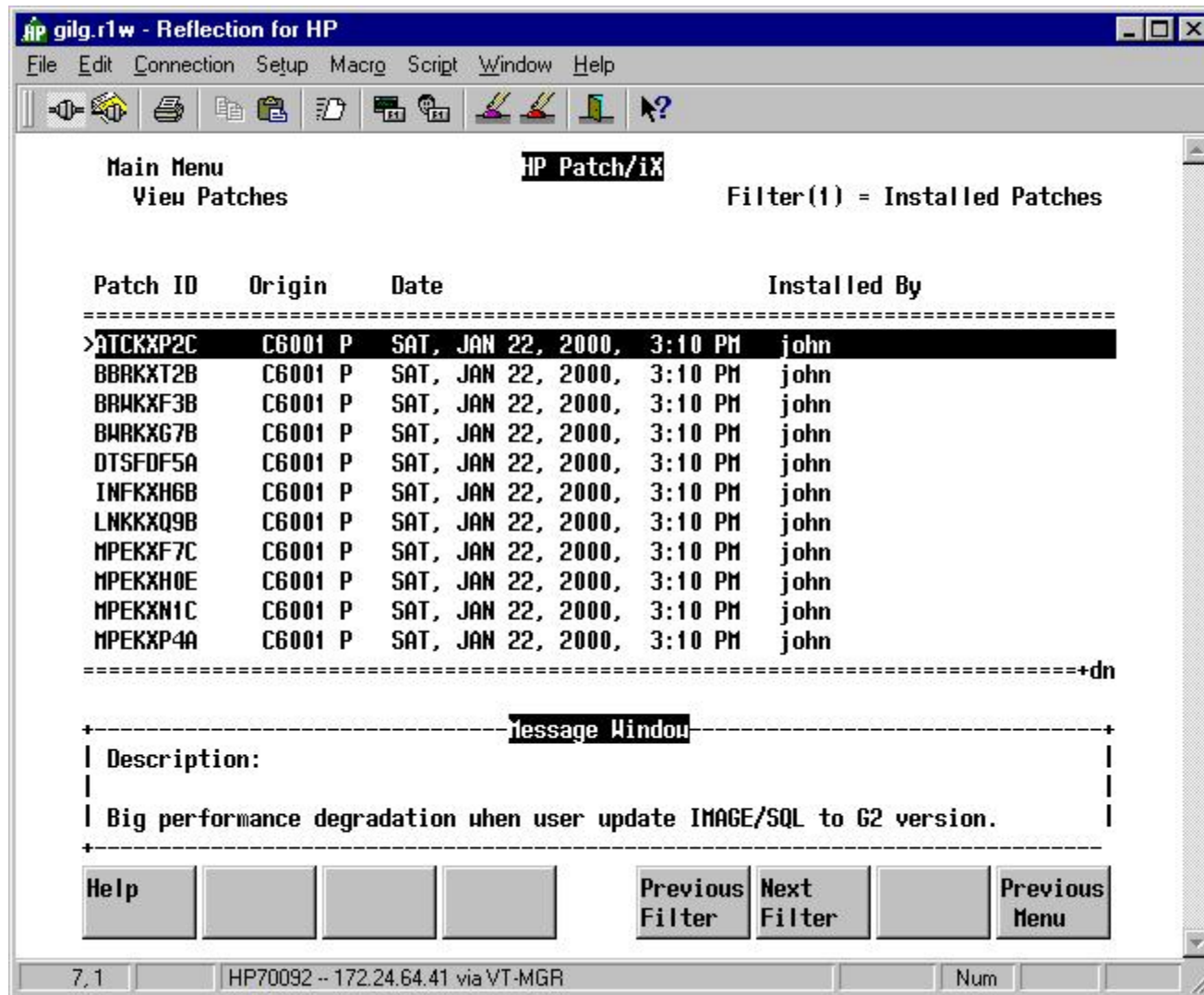
This step should take only a few minutes depending upon the number of information files on the PowerPatch tape and the speed of the system in copying system libraries.

Main Menu - View Patches



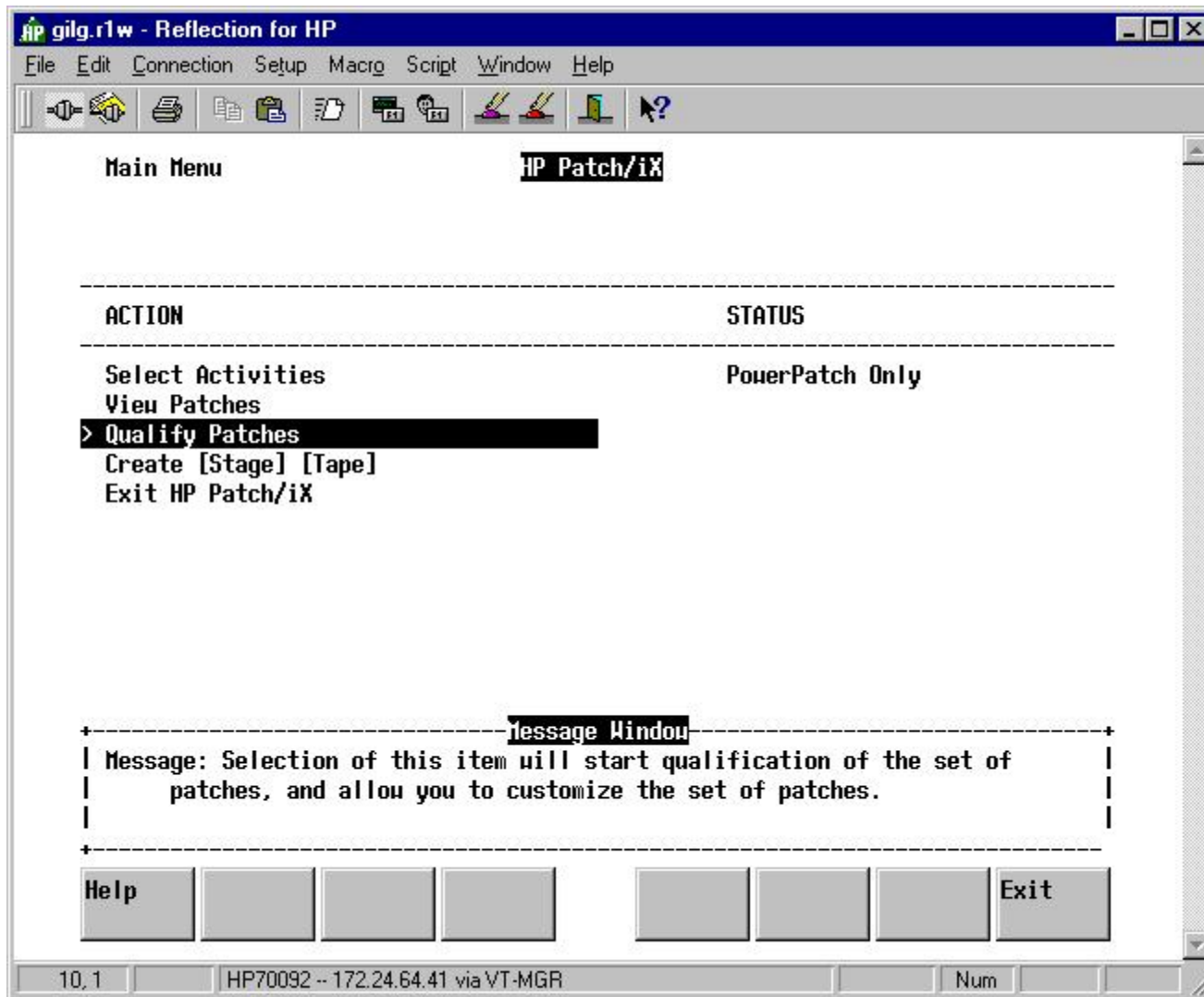
This is optional. It basically shows the contents of HPSWINFO.PUB.SYS. Better to have a printout of HPSWINFO instead to refer to if needed.

Example of View Patches



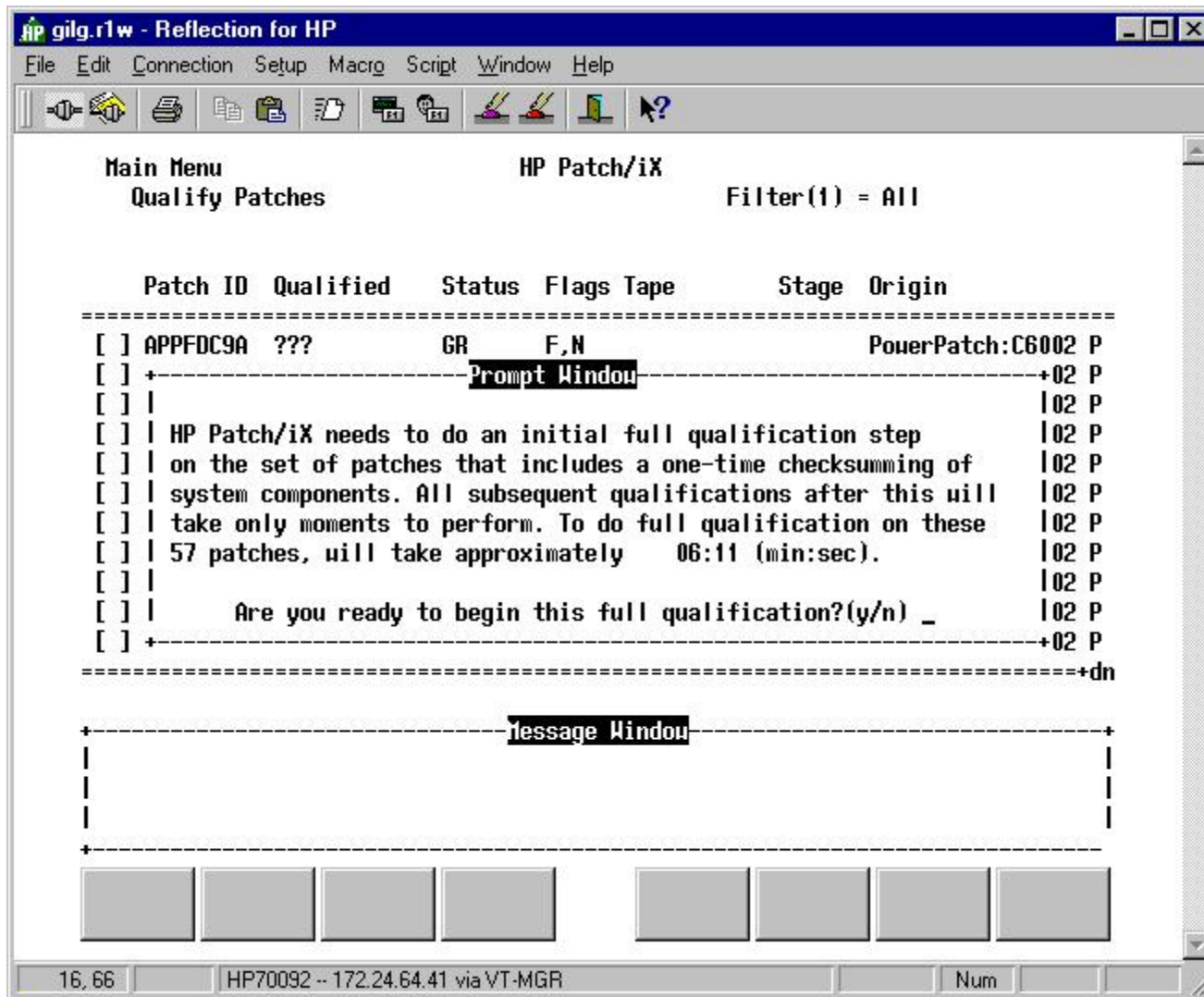
This is showing the MPE/iX PowerPatch 1 patches that were applied to this system on January 22, 2000. Make a note of ATCKXP2C for later.

Main Menu - Qualify Patches



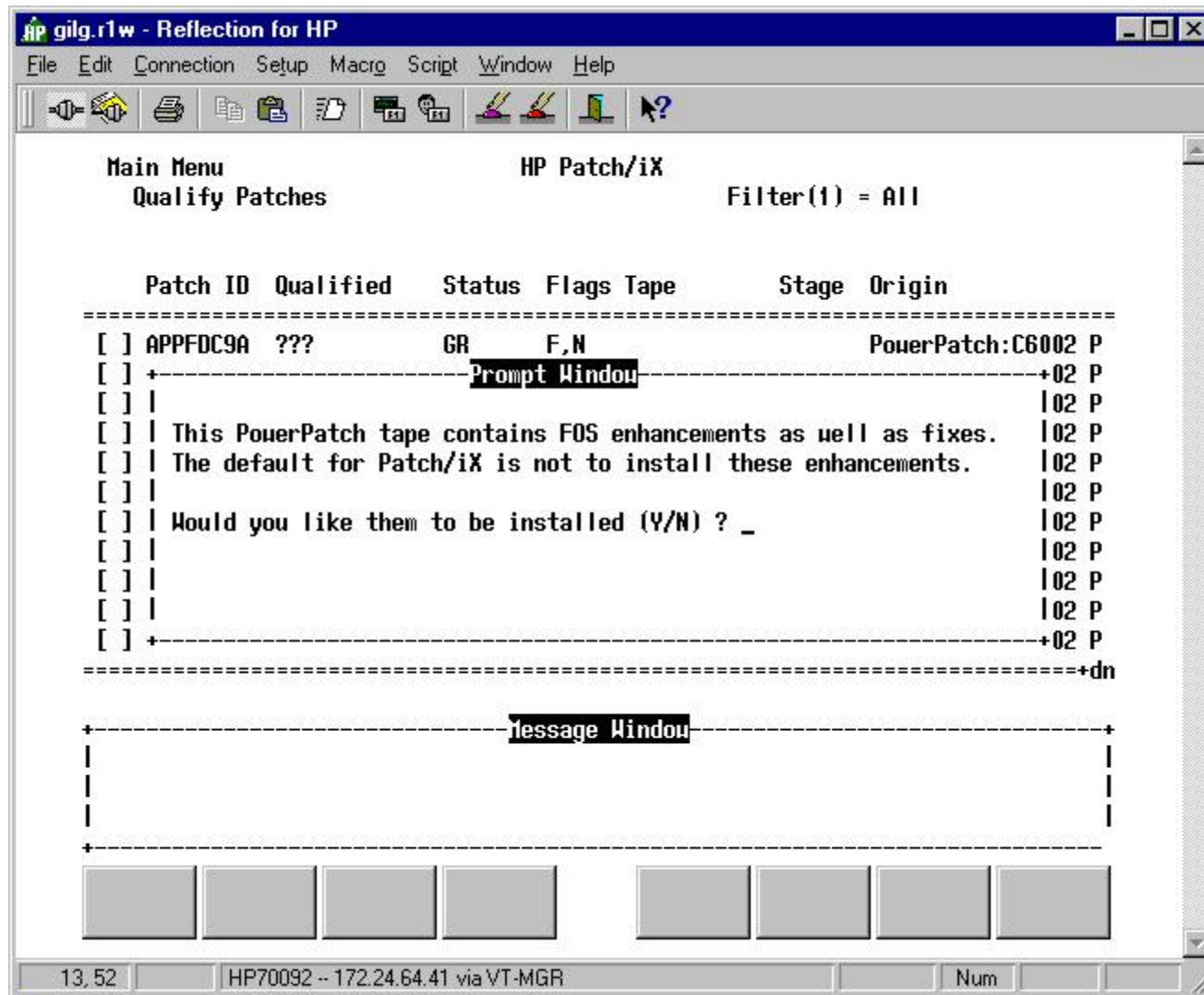
This is the crucial step where you, in concert with Patch/iX, choose which patches contained in the PowerPatch bundle will actually be applied.

Ready to proceed with the qualification?



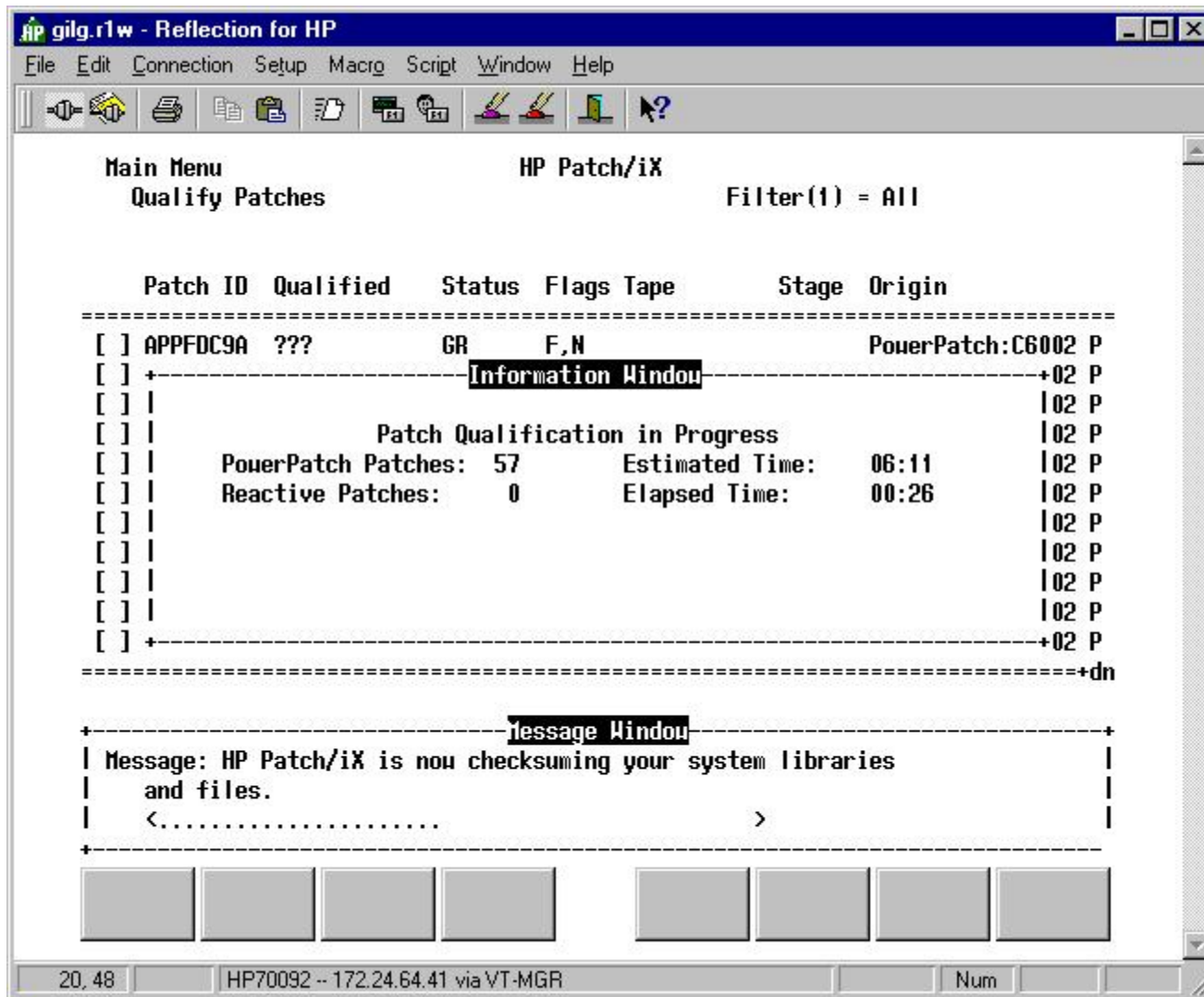
Patch/iX graciously estimates for you the amount of time qualification will take. Go get a cup of coffee once it starts the qualification step.

Install FOS enhancements?



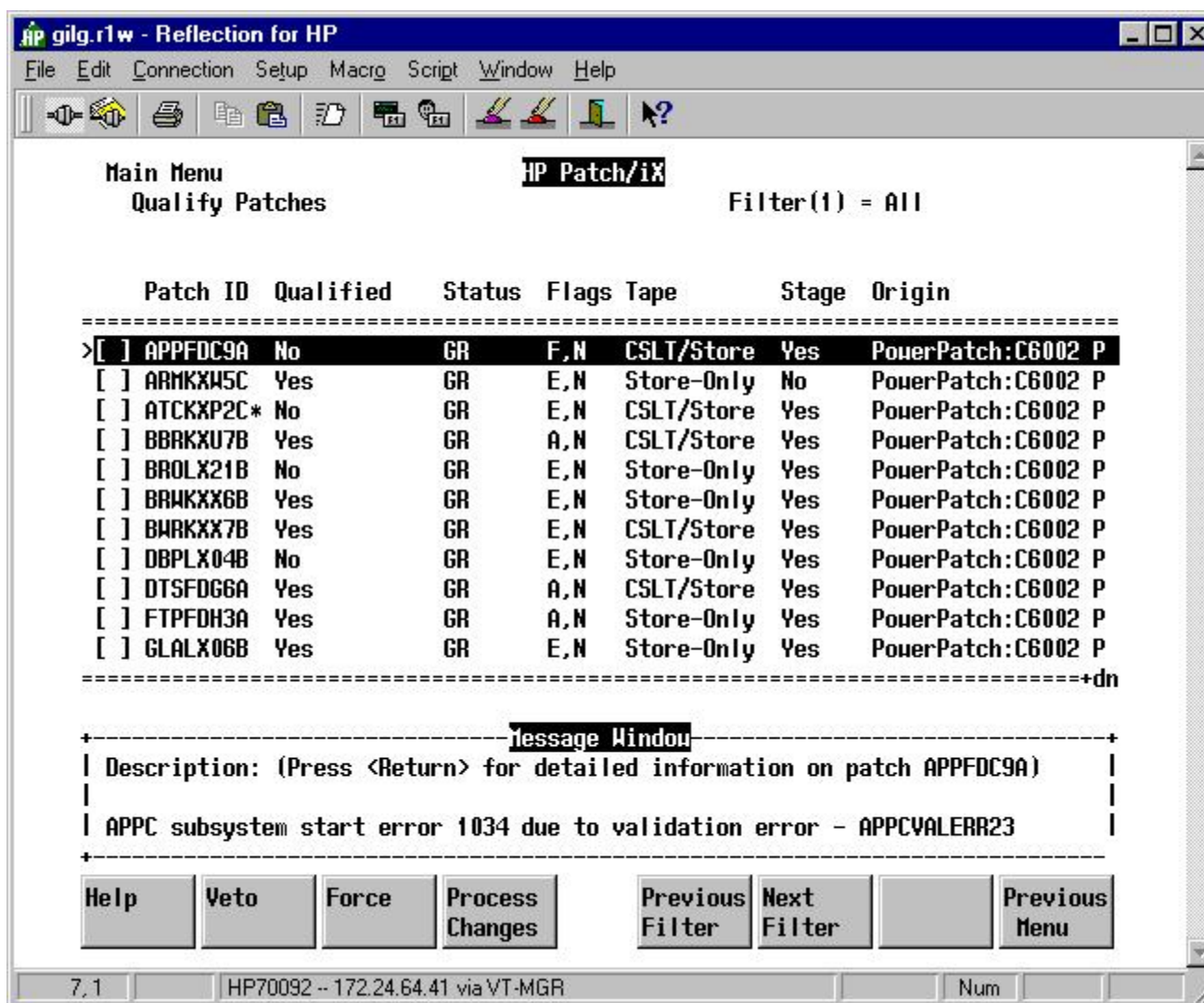
But first, one more question. The primary reason you might not want to install a FOS enhancement is if it would cause some job, script or program to break and for some reason you can not fix the job, script or program. The Communicator for the PowerPatch will describe any FOS enhancements.

Patch Qualification Process Screen



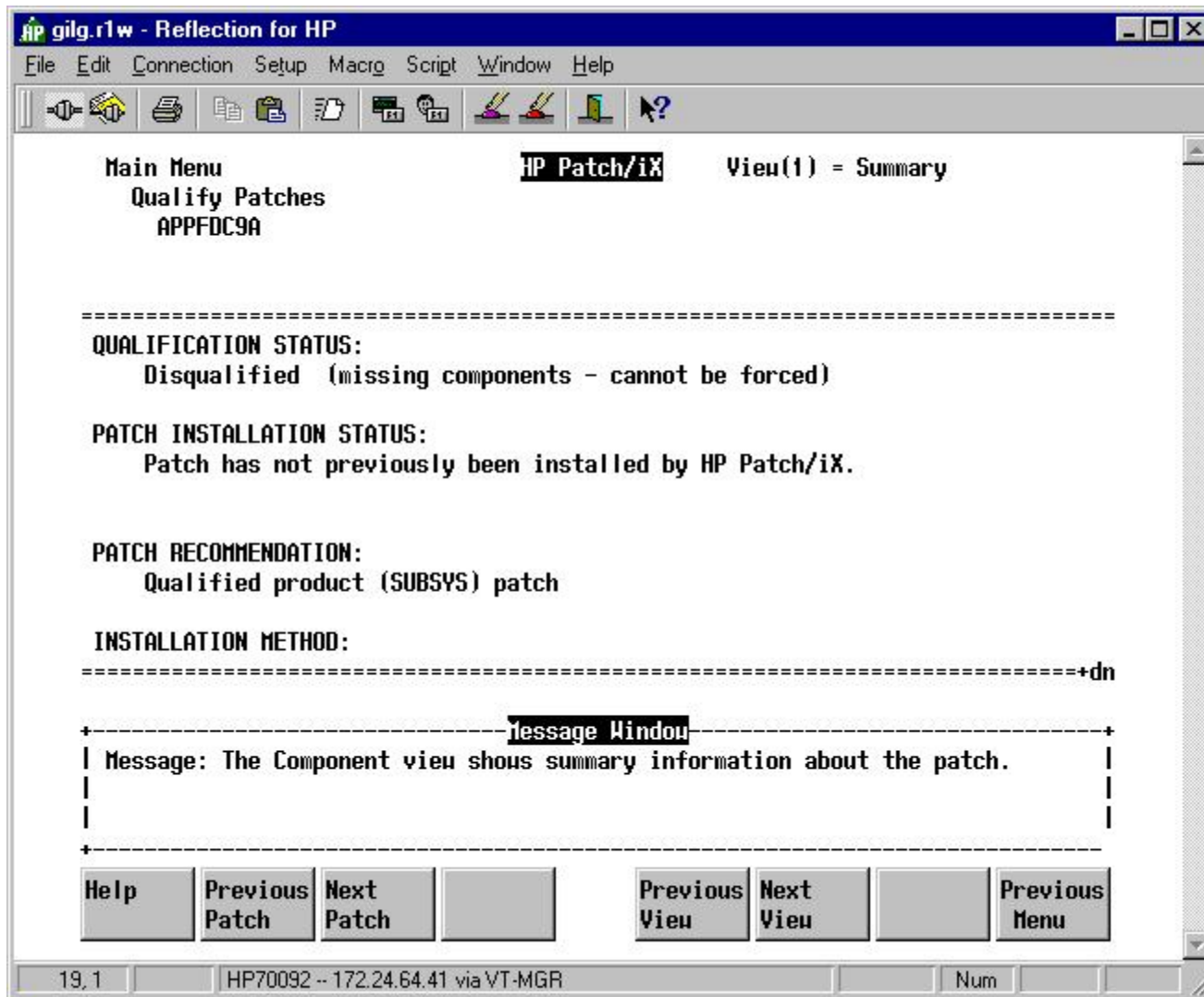
Now go get that cup of coffee.

Qualify Individual Patches Screen



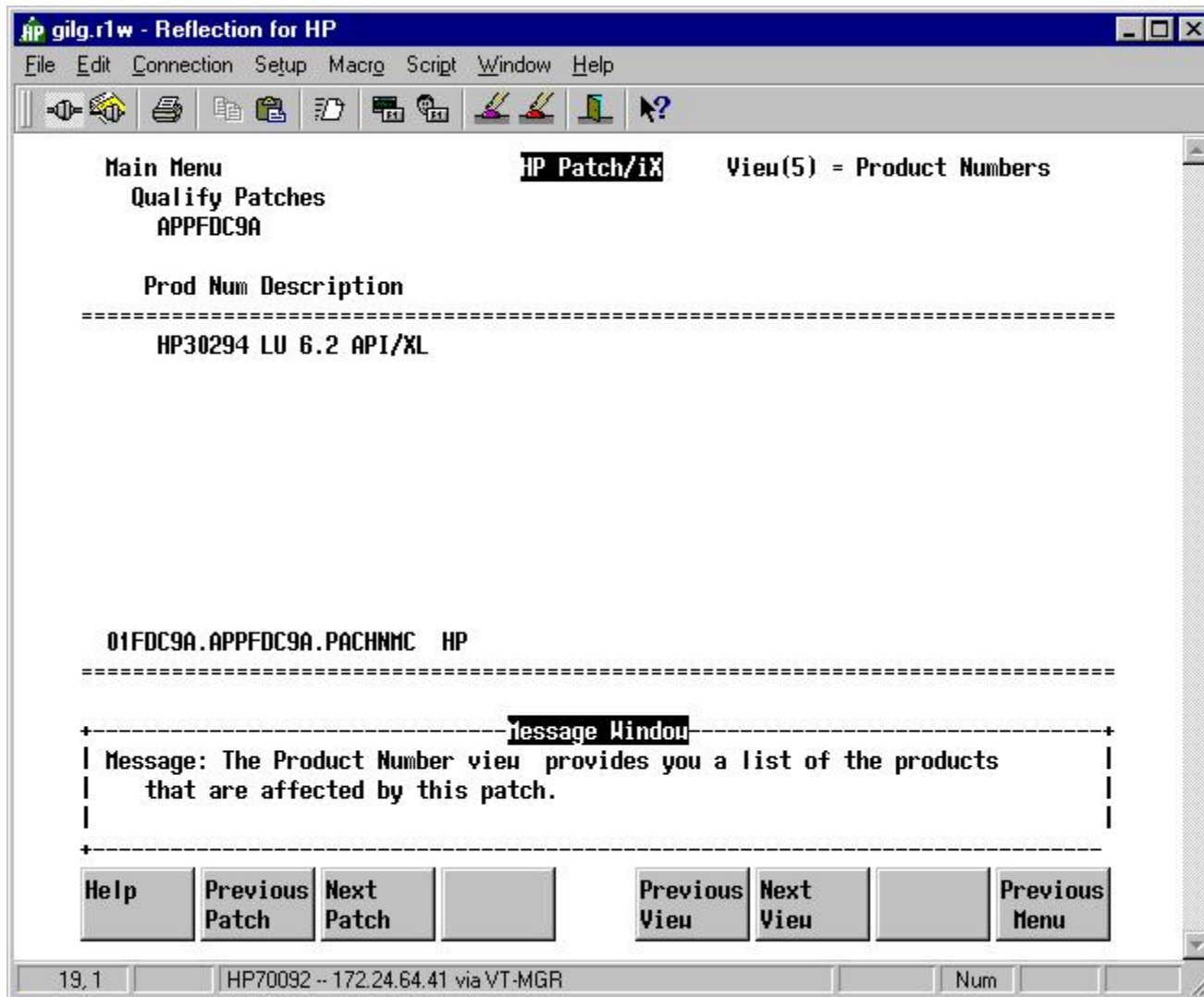
This is where you have to do some work. You need to check every patch that did not qualify and determine why it did not qualify. Occasionally, you may need to force a patch that does not qualify after consulting documentation and/or your support provider. Let's investigate why this first patch did not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

View(1) = Summary



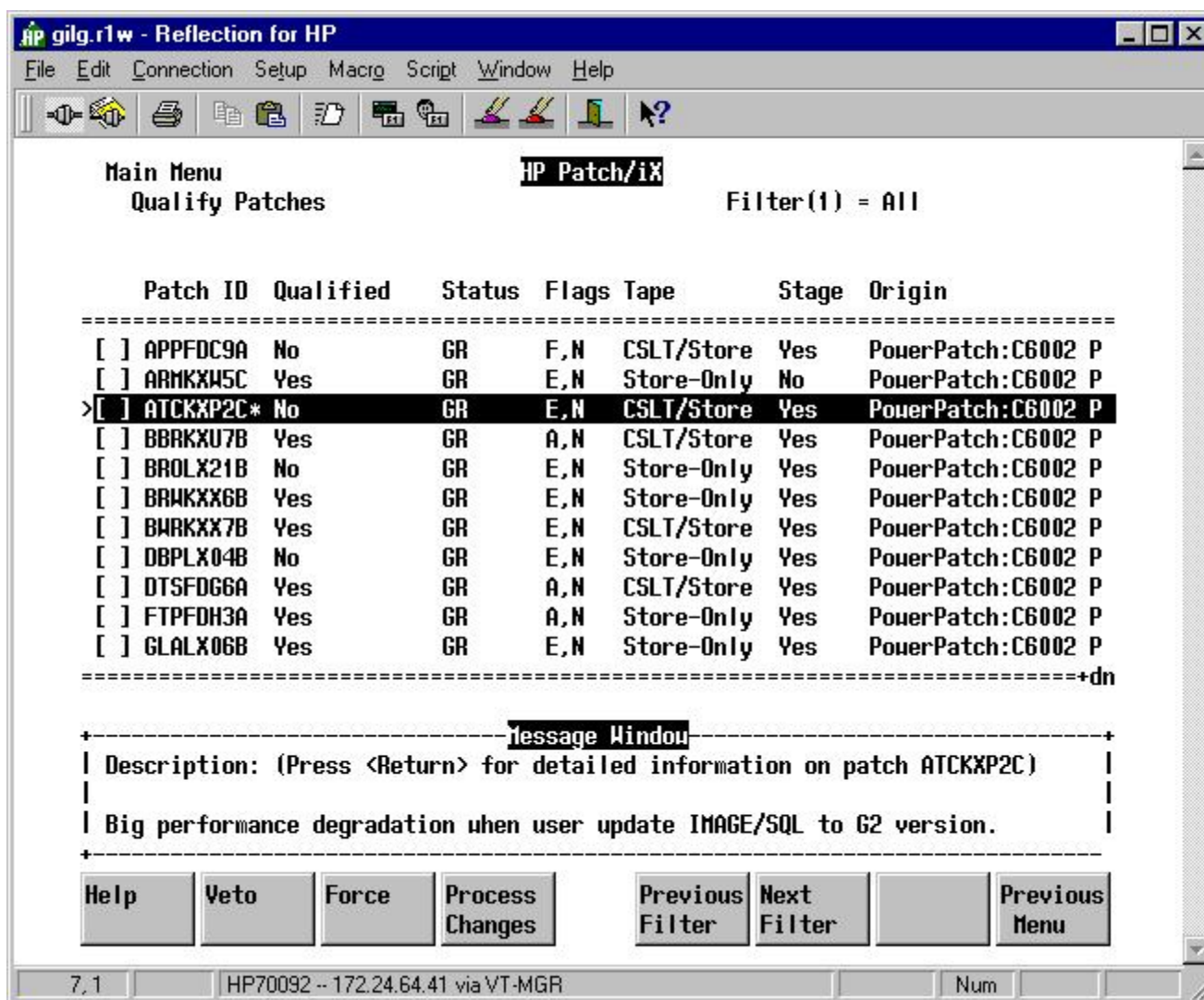
Note that the patch was disqualified because of a missing component and that it can not be forced. A clue as to what is missing is contained in the Patch Recommendation: "Qualified product (SUBSYS) patch". Let's look at View(5), Product Numbers.

View(5) = Product Numbers



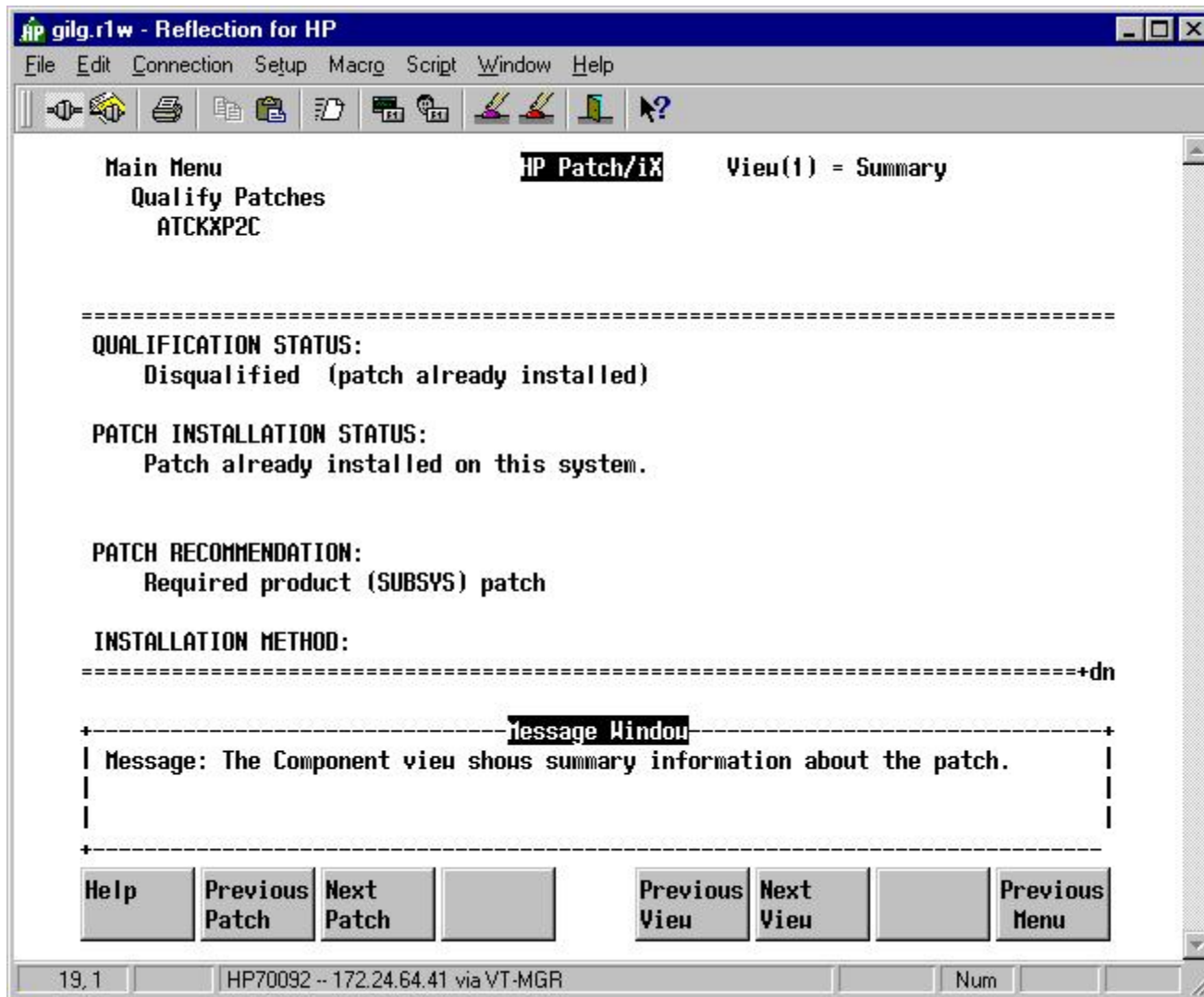
This is a patch for LU 6.2 API/XL. The system being patched does not have this product installed (remember :xeq psirpt.pred.sys). Obviously, this patch should not qualify. Let's continue.

Qualify Individual Patches Screen



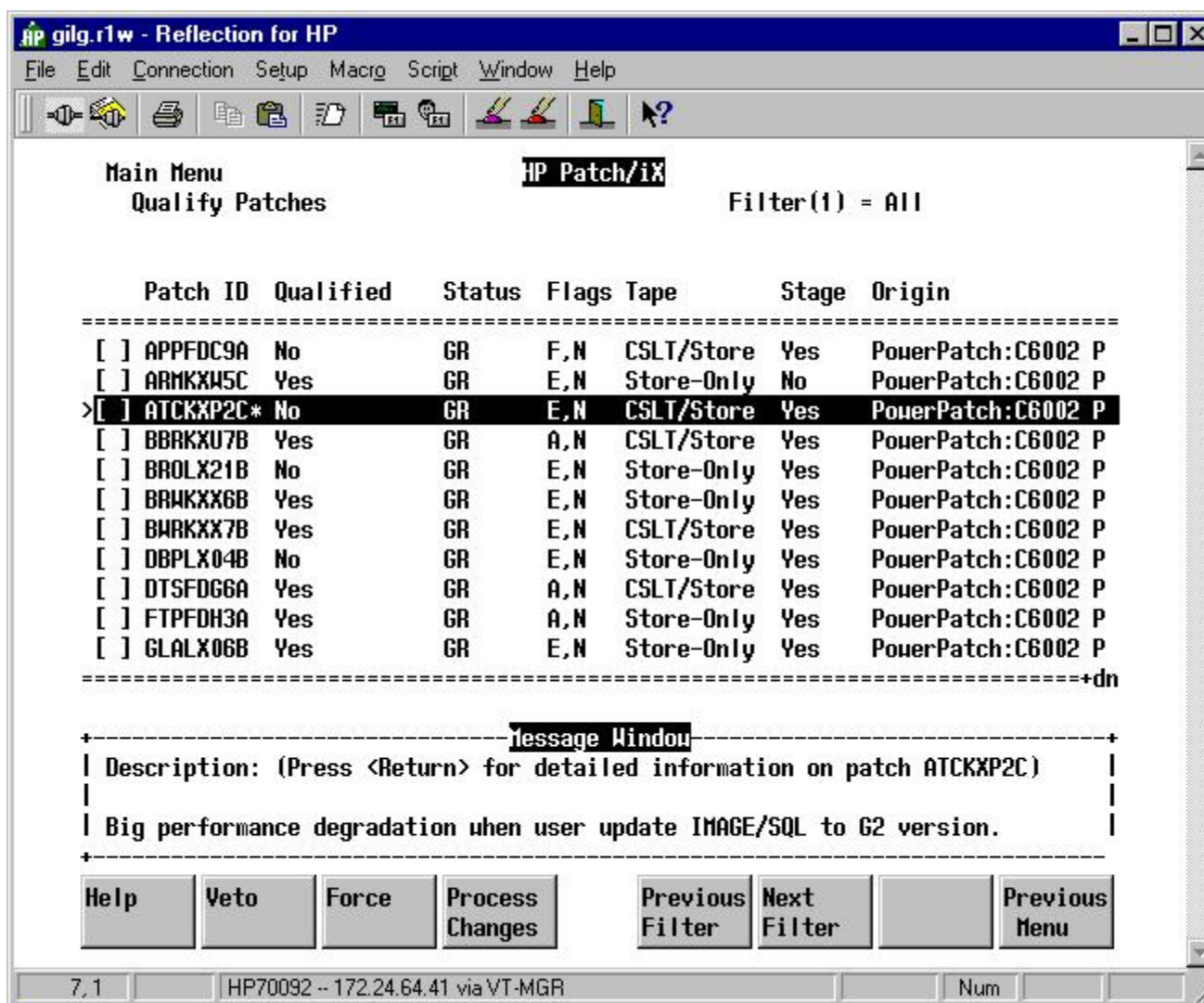
The asterisk (*) indicates this patch is already installed. It should show up on your copy of HPSWINF0.PUB.SYS. It also was the first patch in the View Patches Screen. But let's look at View(1) anyway to be sure. Depress RETURN.

View(1) = Summary



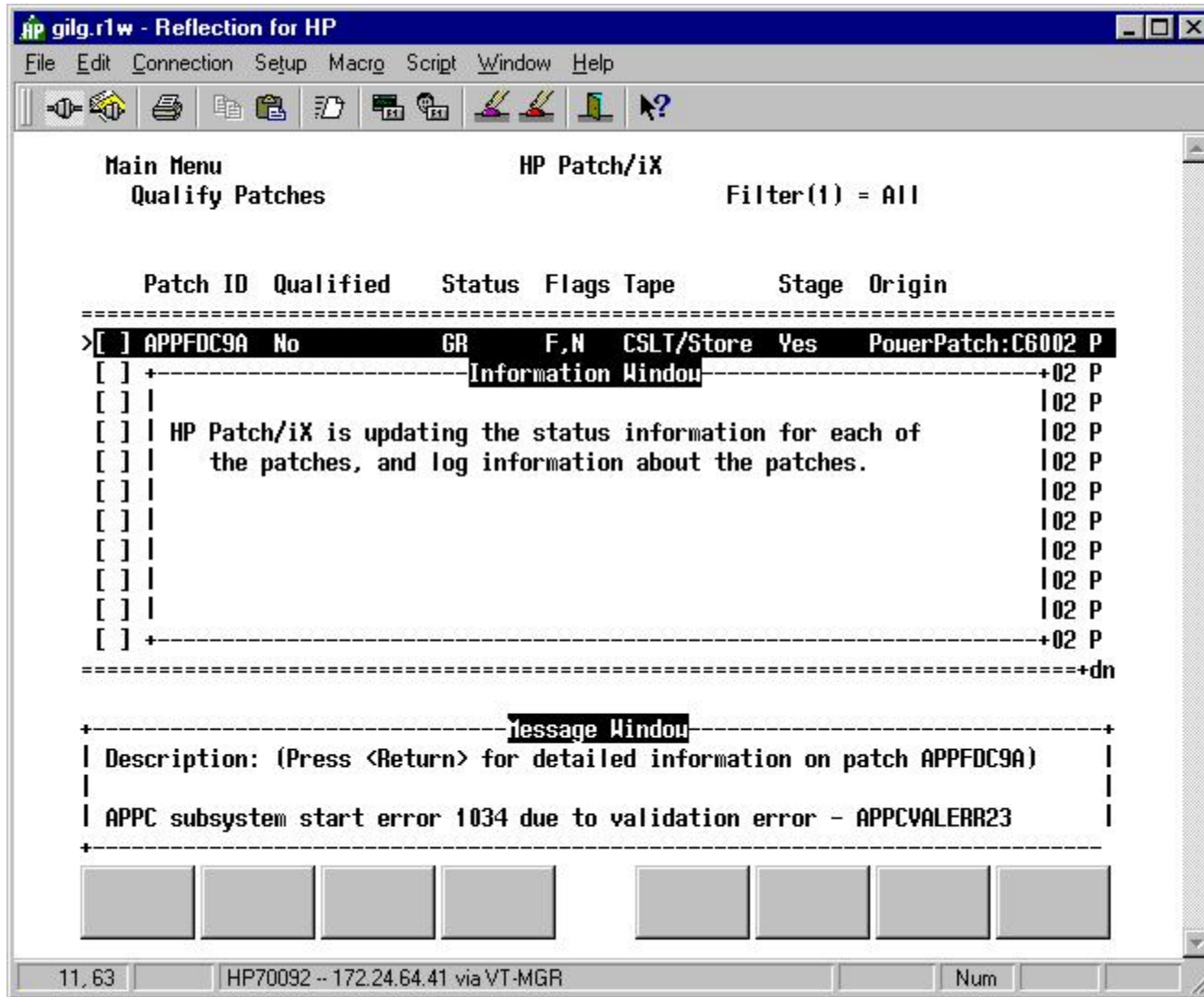
There it is: “patch already installed”. Remember, a PowerPatch is cumulative. It will contain every patch from all previous PowerPatches that has not been superceded. This system already had PowerPatch 1 installed and possibly some Reactive Patches.

Qualify Individual Patches Screen



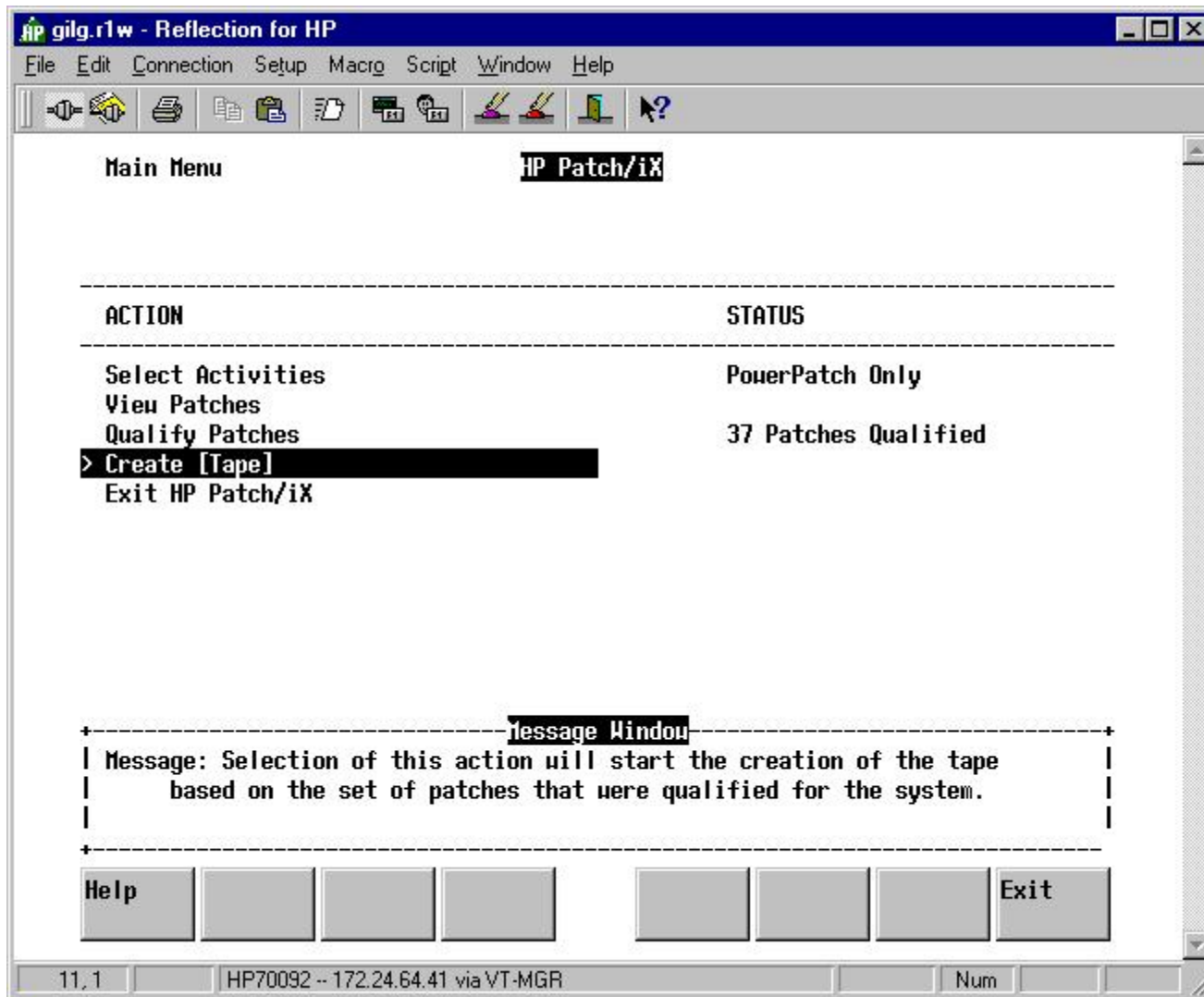
Let's assume we've checked everything and depress F4 (Process Changes), then F8 (Previous Menu).

Process Qualified Patches



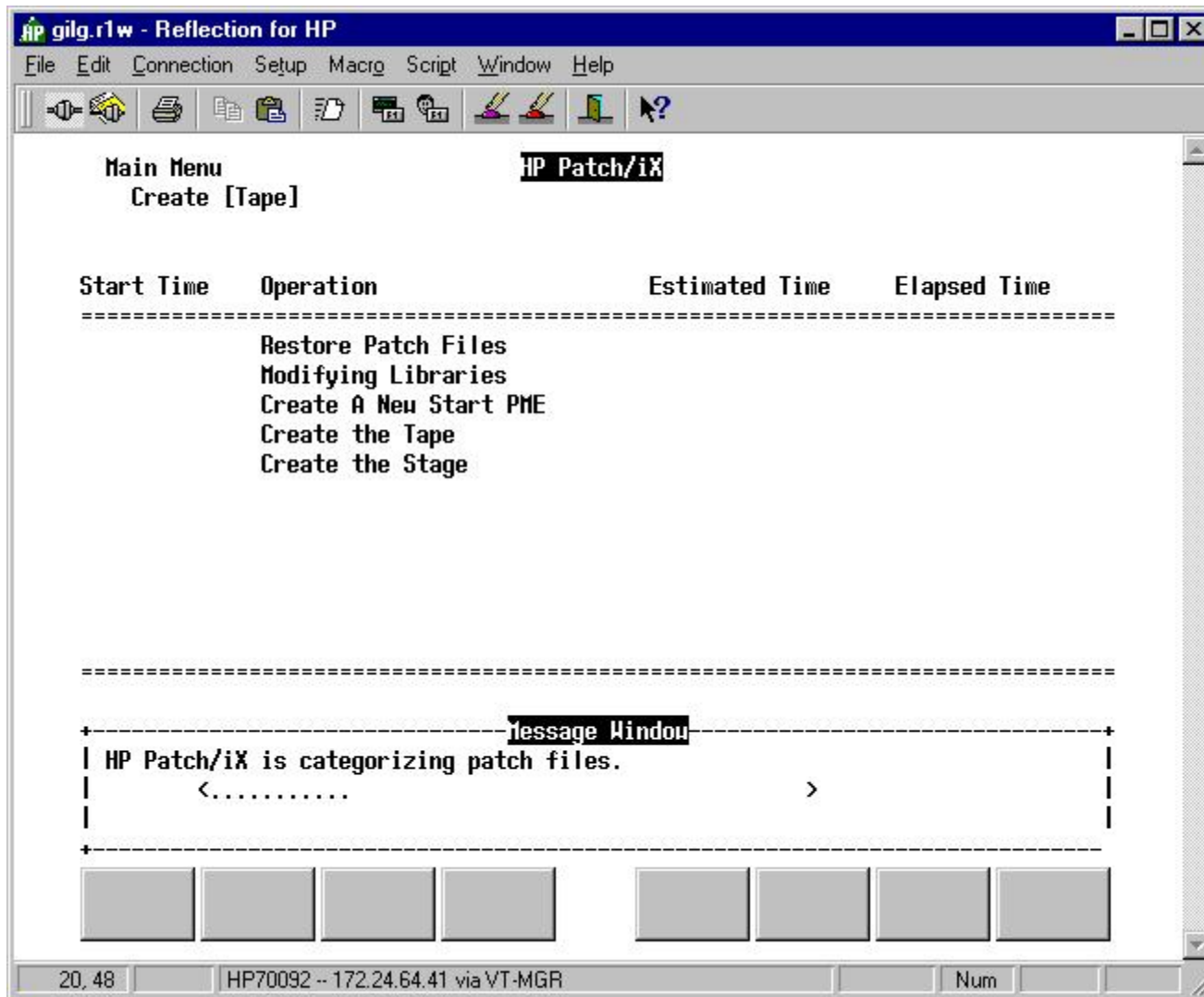
This only takes a few moments. If you blink, you miss this screen.

Main Menu - Create Tape

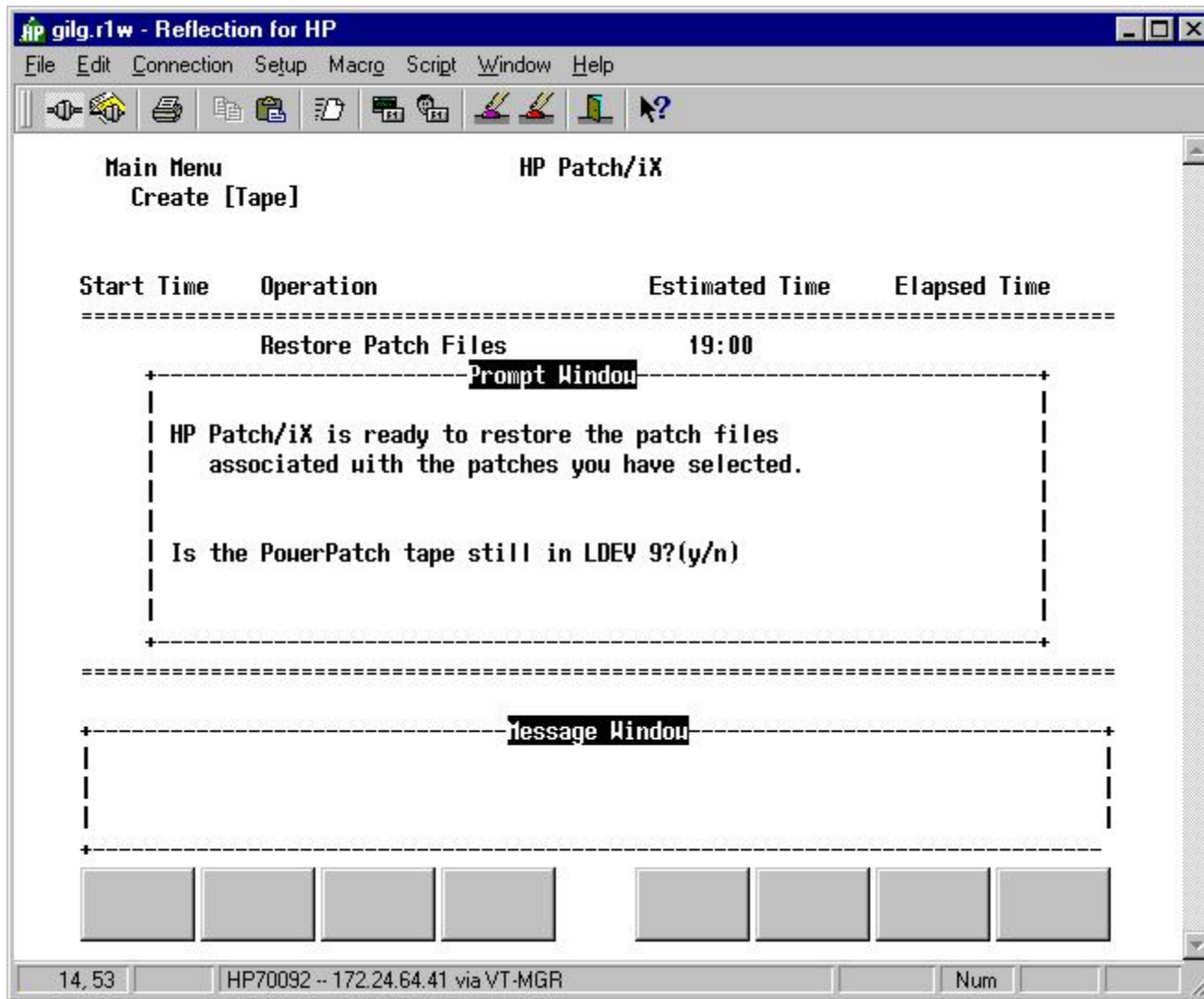


Ready now to create the CSLT. After a few setup questions, you'll be able to turn your attention to other tasks while the CSLT is created.

Create Tape Tasks

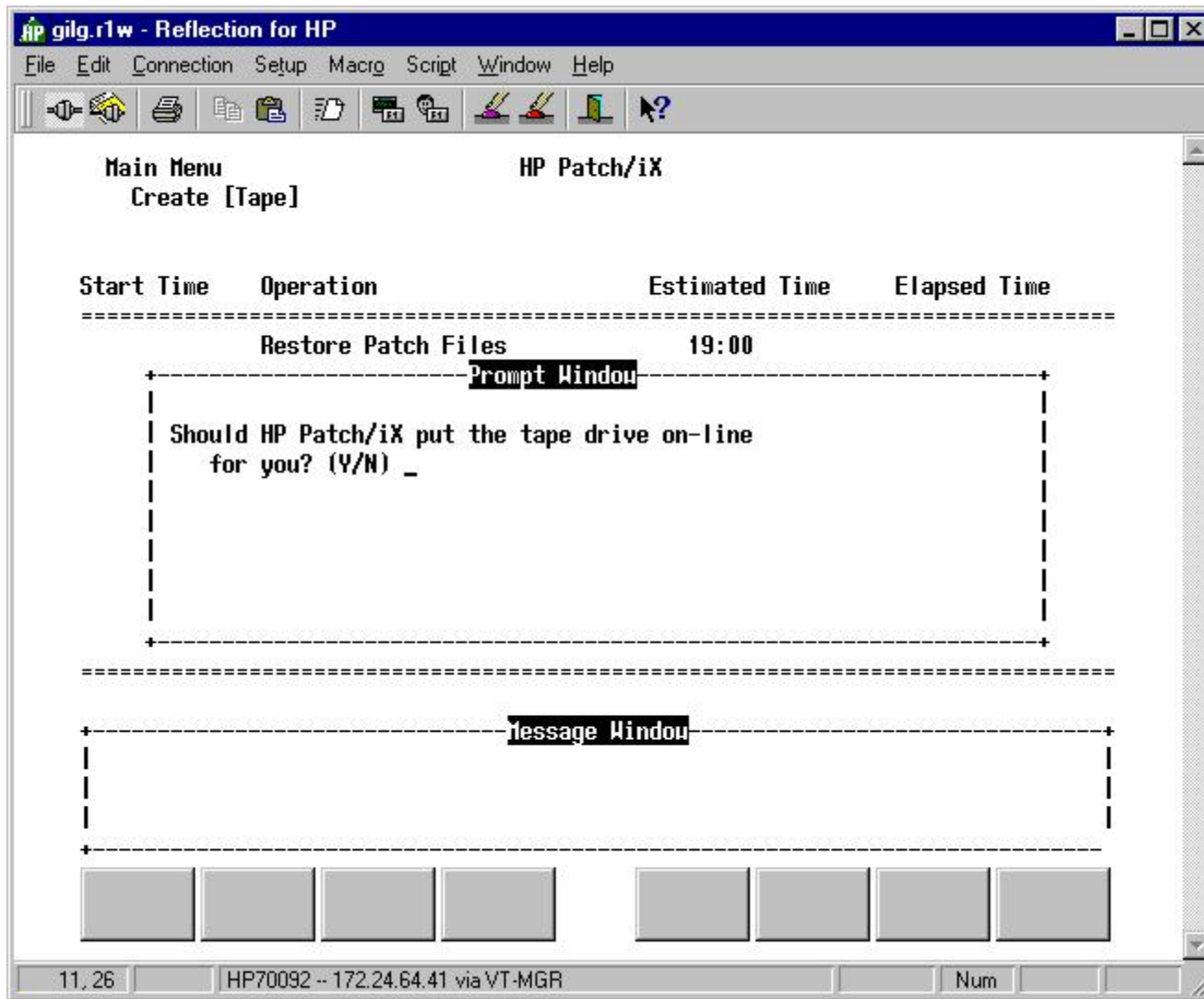


Where is the PowerPatch tape?



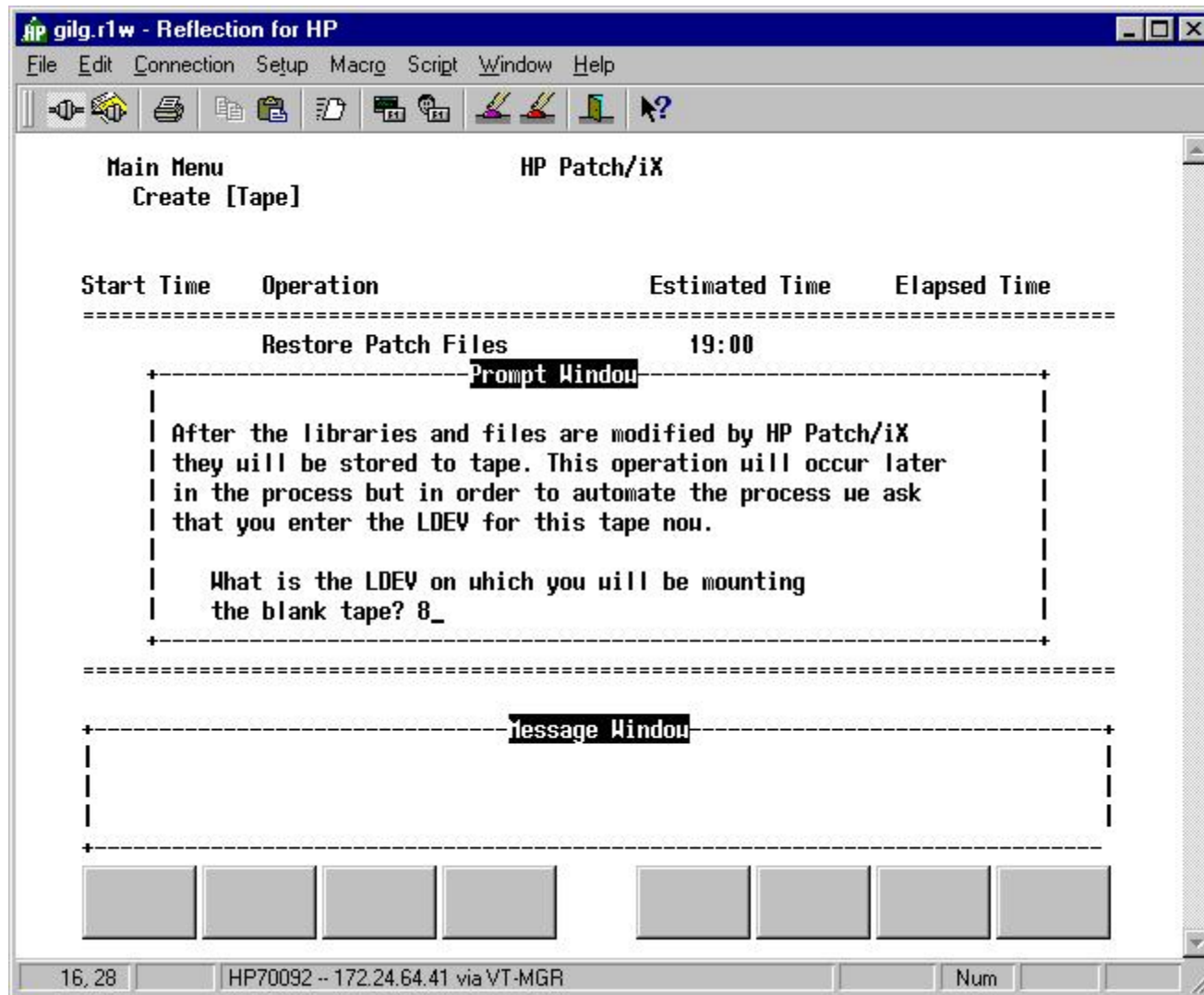
This is where it is really convenient to have multiple tape drives.

Put it on line?

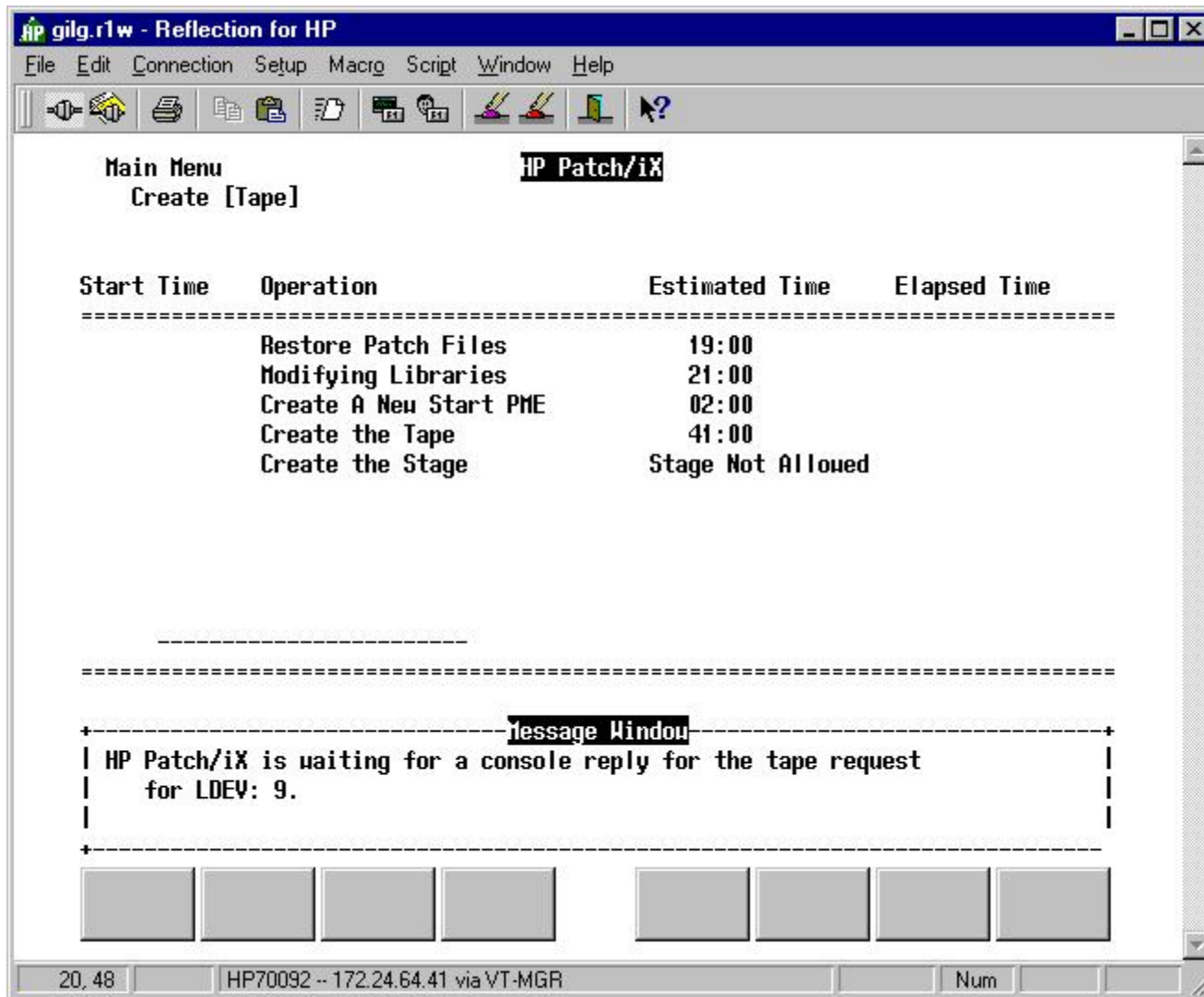


You don't even have to get up from your desk.

Where will the CSLT tape be mounted?

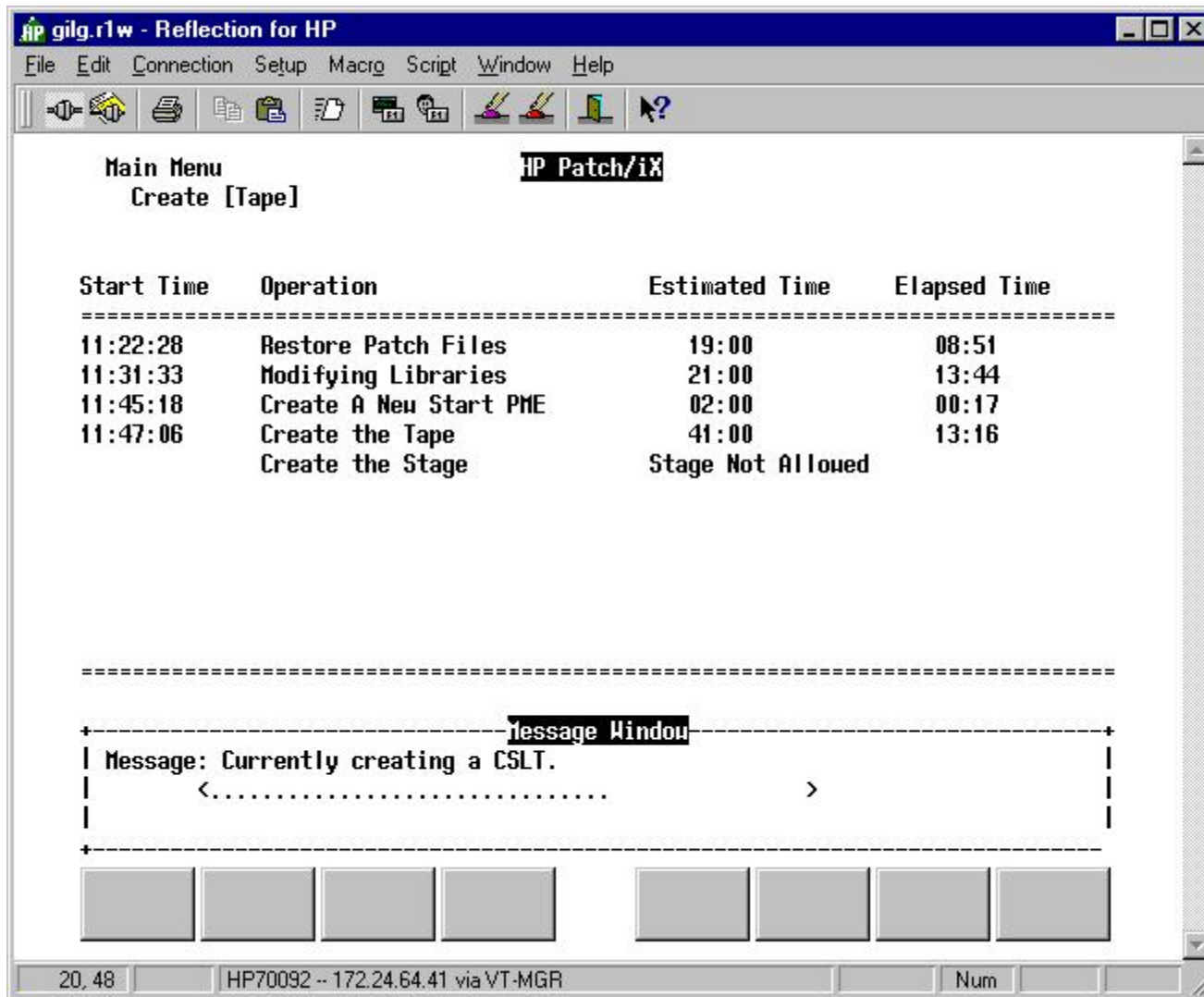


Create tape tasks with time estimates



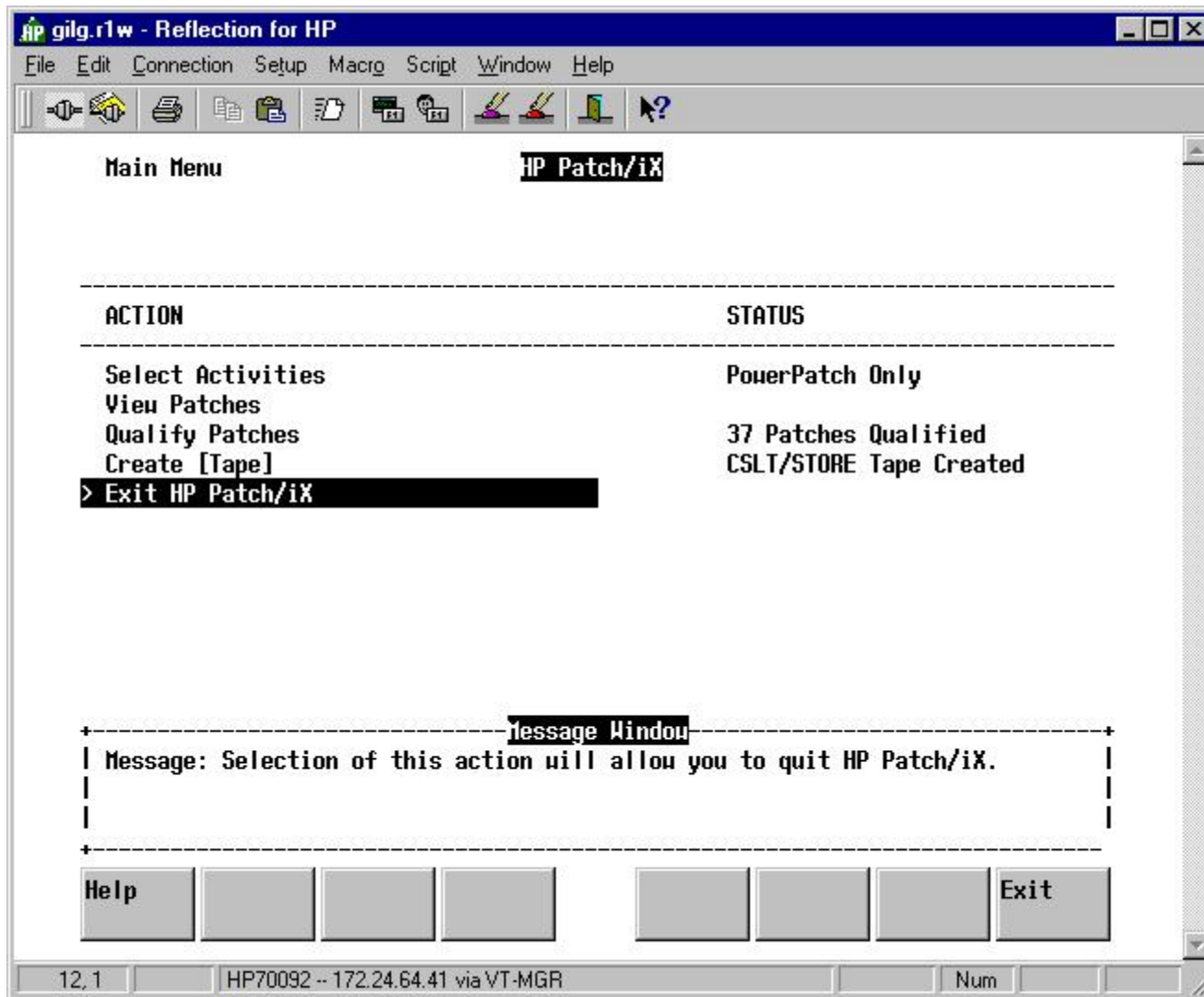
Again, Patch/iX graciously estimates the time required for each step. All you have to do now (if using multiple tape drives, is watch out for and reply to tape requests.

Creating the CSLT tape



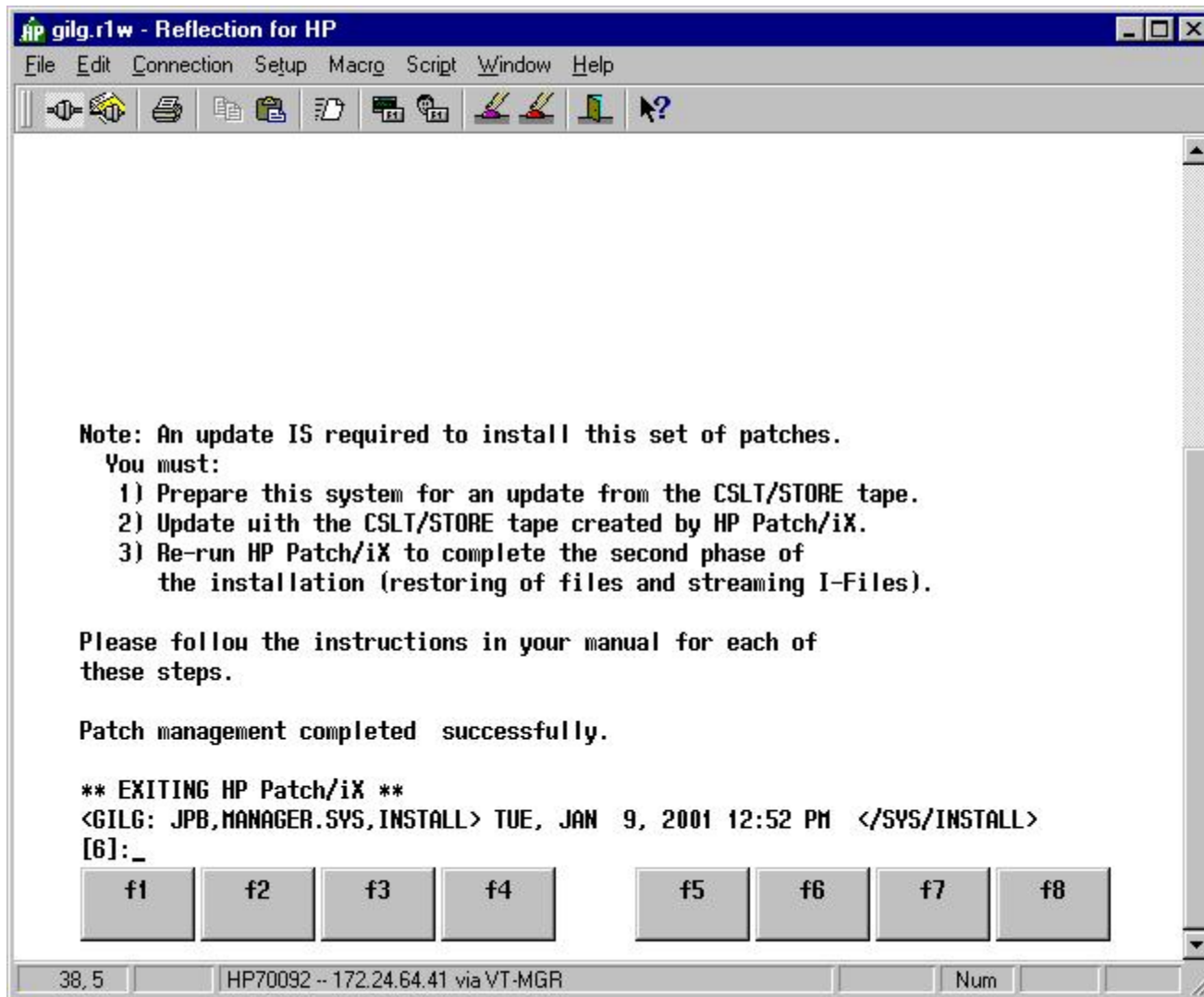
Note the actual elapsed time is significantly less than the estimate. YMMV.

Main Menu - Exit



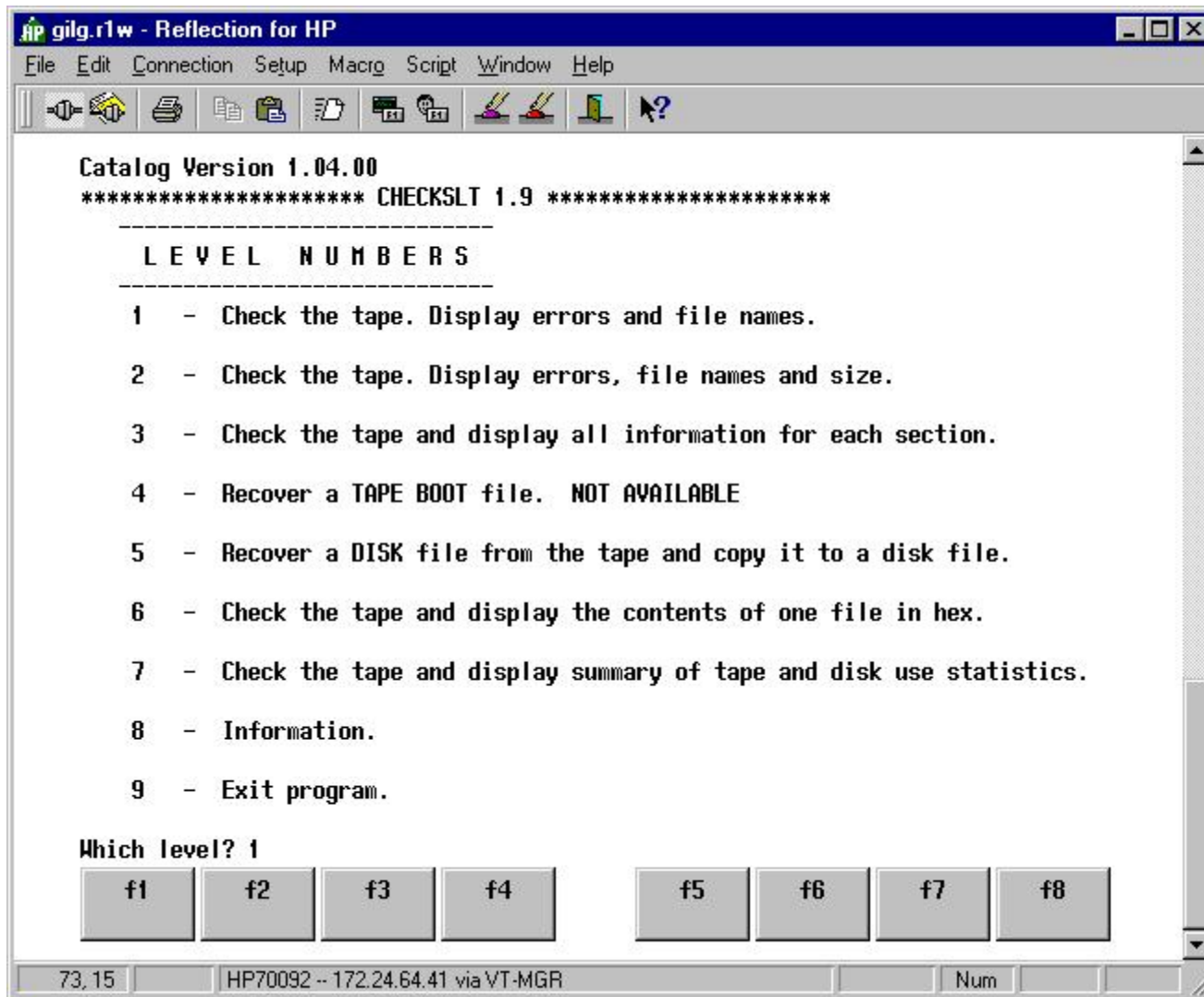
We're done with Phase I - well, almost.

What to do next



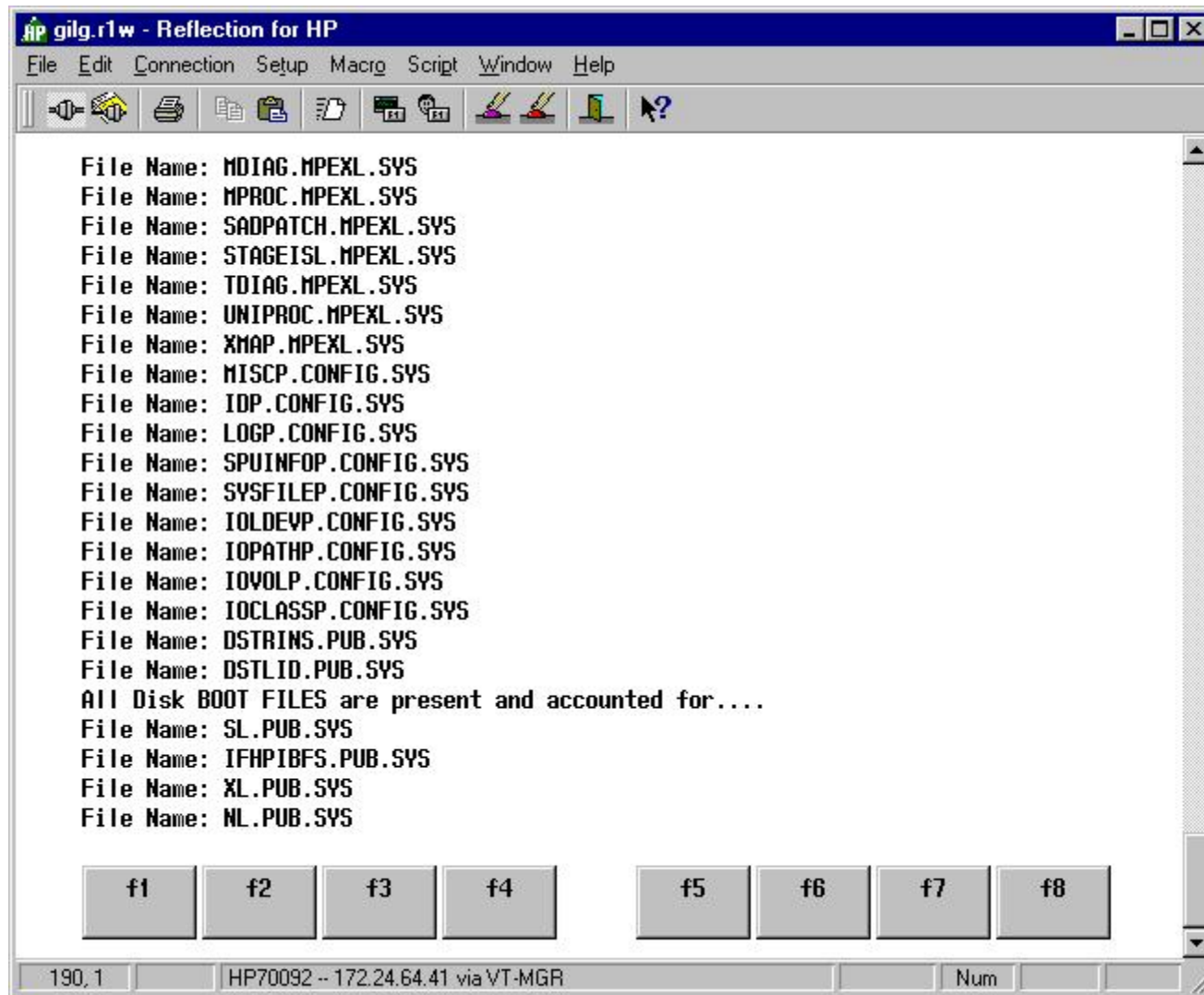
What it does not say, but what you should do unless you like living on the edge is validate the CSLT with first `checkslt.mpxl.telesup` and then with `VSTORE`.

CHECKSLT.MPEXL.TELESUP

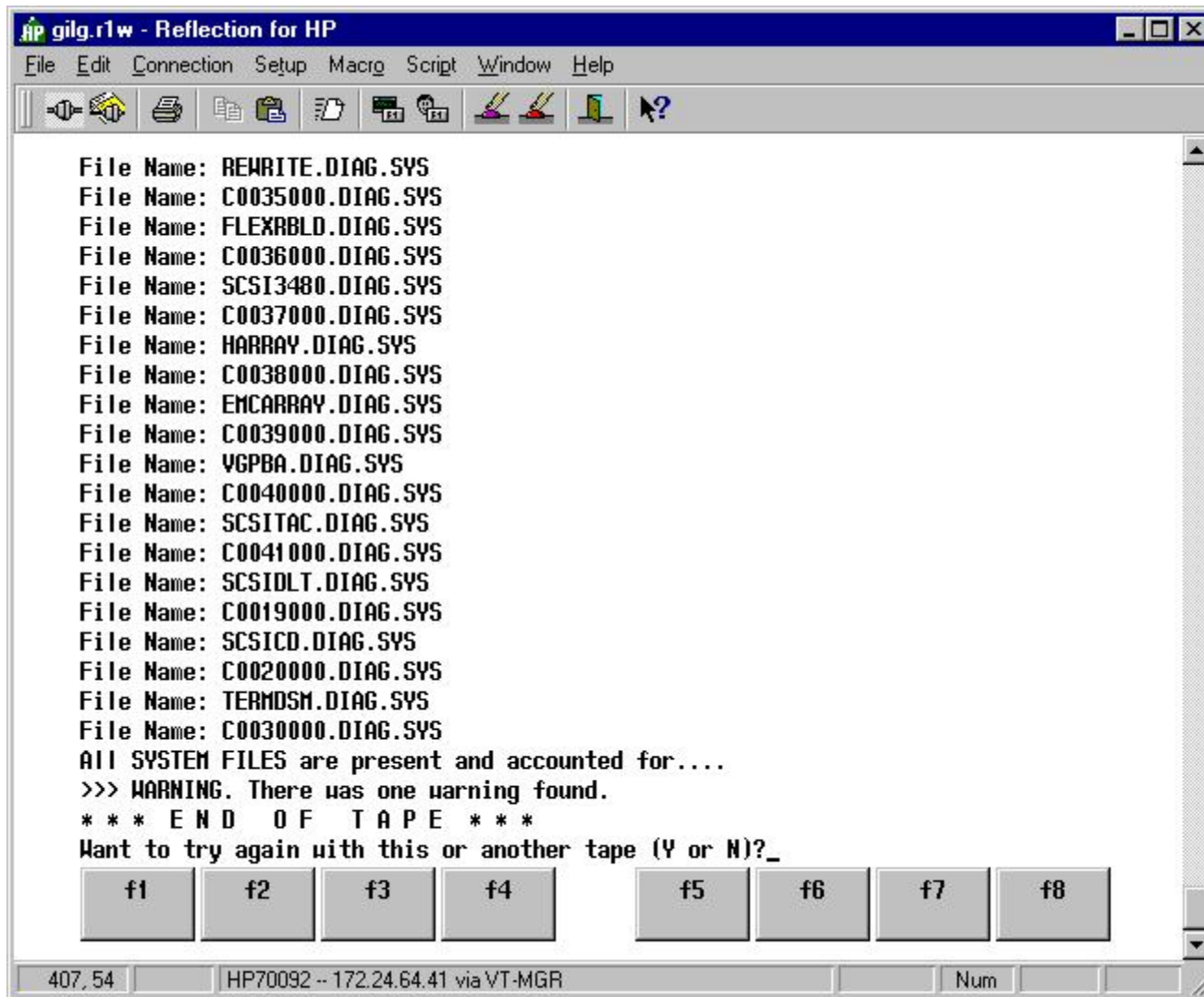


Choose option 1.

Partial results from CHECKSLT

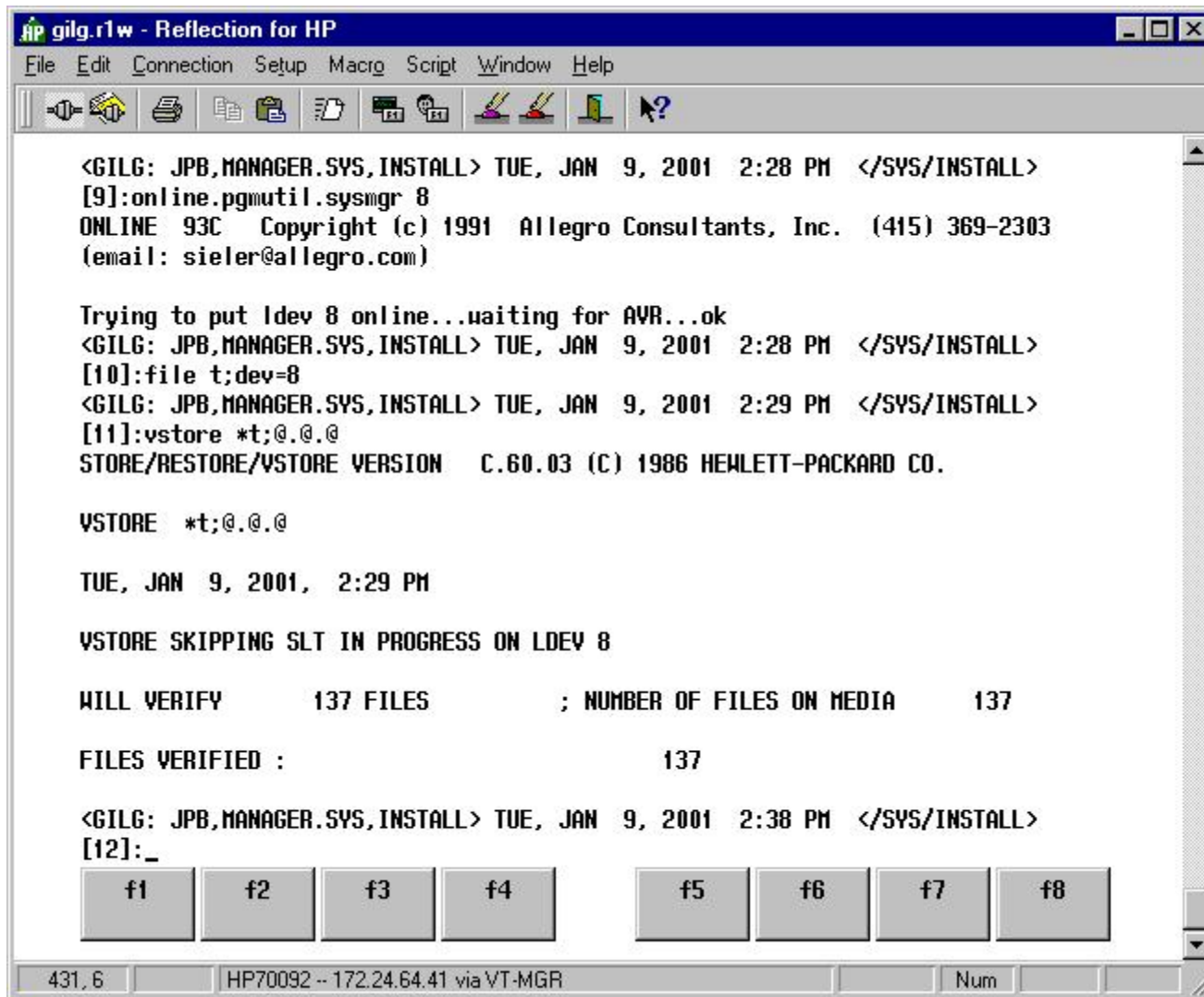


Partial results from CHECKSLT (cont.)



What was the warning for?

VSTORE the CSLT



The screenshot shows a terminal window titled "gilg.r1w - Reflection for HP". The window has a menu bar with "File", "Edit", "Connection", "Setup", "Macro", "Script", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main text area displays the following output:

```
<GILG: JPB,MANAGER.SYS,INSTALL> TUE, JAN 9, 2001 2:28 PM </SYS/INSTALL>
[9]:online.pgmutil.sysmgr 8
ONLINE 93C Copyright (c) 1991 Allegro Consultants, Inc. (415) 369-2303
(email: sieler@allegro.com)

Trying to put ldev 8 online...waiting for AVR...ok
<GILG: JPB,MANAGER.SYS,INSTALL> TUE, JAN 9, 2001 2:28 PM </SYS/INSTALL>
[10]:file t;dev=8
<GILG: JPB,MANAGER.SYS,INSTALL> TUE, JAN 9, 2001 2:29 PM </SYS/INSTALL>
[11]:vstore *t;@.@.@
STORE/RESTORE/VSTORE VERSION C.60.03 (C) 1986 HEWLETT-PACKARD CO.

VSTORE *t;@.@.@

TUE, JAN 9, 2001, 2:29 PM

VSTORE SKIPPING SLT IN PROGRESS ON LDEV 8

WILL VERIFY 137 FILES ; NUMBER OF FILES ON MEDIA 137

FILES VERIFIED : 137

<GILG: JPB,MANAGER.SYS,INSTALL> TUE, JAN 9, 2001 2:38 PM </SYS/INSTALL>
[12]:_
```

At the bottom of the terminal window, there is a row of eight function keys labeled f1 through f8. Below the function keys, the status bar shows "431,6" and "HP70092 -- 172.24.64.41 via VT-MGR".

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.

Stage/iX

- How does it work?
- 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> THU, JAN 11, 2001 8:54 AM </SYSADMIN/PUB>
[2]:stageman
STAGEMAN A.01.00, (C) Hewlett-Packard Co., 1995. All Rights Reserved.
STAGEMAN> help
```

STAGING AREA MANAGEMENT COMMANDS:

Command (Abbrev)	Required Capabilities	Description
INITIALIZE (INIT)	SM	Initialize the HP Stage/iX facility
UNINSTALL	SM	Uninstall HP Stage/iX completely from your system.
STATUS (ST)	SM OP	Display current status of HP Stage/iX.
LIST (L)	SM OP	List any staging areas on your system.
DISKUSE (DU)	SM OP	Display the total disk space used by a staging area.
CREATE (CR)	SM	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)	SM	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)	SM	Recovers a staging area that is not recognized in the environment.

STAGEMAN HELP (cont.)

MISC. COMMANDS:

Command (Abbrev)	Required Capabilities	Description
-----	-----	-----
HELP (H)	SM OP	Get help for an STAGEMAN command.
ERRMSG	SM 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.
LOG	(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: MPELX57A applied to an MPE/iX 6.0 PP2 system

This is a 6.0 patch (not contained in PowerPatch 2) that includes:

- Store-to-Disk as part of standard FOS STORE
- The ABORTPROC command
- An enhanced INPUT command for console dialogue

Is the patch already installed?

```
<SASHA: JPB,MGR.SYSADMIN,PUB> THU, JAN 11, 2001  8:50 AM  </SYSADMIN/PUB>  
[2]:help abortproc
```

^

Can't find anything under this command or in table of contents.

```
<SASHA: JPB,MGR.SYSADMIN,PUB> THU, JAN 11, 2001  8:50 AM  </SYSADMIN/PUB>  
[3]:abortproc
```

Unknown command name. (CIERR 975)

```
<SASHA: JPB,MGR.SYSADMIN,PUB> THU, JAN 11, 2001  8:51 AM  </SYSADMIN/PUB>  
[4]:quadt hpswinfo.pub.sys
```

QUAD -- JHK, Quest Software, KWS, Summit Information Systems, September, 1993

```
File unnumbered  
Nbr Rec: 402      Rec Size:  80 Bytes  
File code: 0      File Access: IN/OUT  
/l i"MPELX57A"  
/e
```

Initialize Stage/iX

```
<SASHA: JPB,MGR.SYSADMIN,PUB> THU, JAN 11, 2001  9:09 AM  </SYSADMIN/PUB>
[15]:listfile /SYS/hpstage/,@,2;tree
A component of the pathname does not exist. (CIWARN 9053)
<SASHA: JPB,MGR.SYSADMIN,PUB> THU, JAN 11, 2001  9:09 AM  </SYSADMIN/PUB>
[16]:stageman
STAGEMAN A.01.00, (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> THU, JAN 11, 2001  9:09 AM  </SYSADMIN/PUB>
[17]:do 15
<SASHA: JPB,MGR.SYSADMIN,PUB> THU, JAN 11, 2001  9:09 AM  </SYSADMIN/PUB>
[17]: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/
	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

```
<SASHA: JPB,MGR.SYSADMIN,PUB> THU, JAN 11, 2001  9:09 AM  </SYSADMIN/PUB>
[18]:
```


Patchman HELP

```
[132] /SYSADMIN/PUB $ patchman-2_2.sh -h
Usage is:
```

```
./patchman-2_2.sh [-adhnrt] [-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

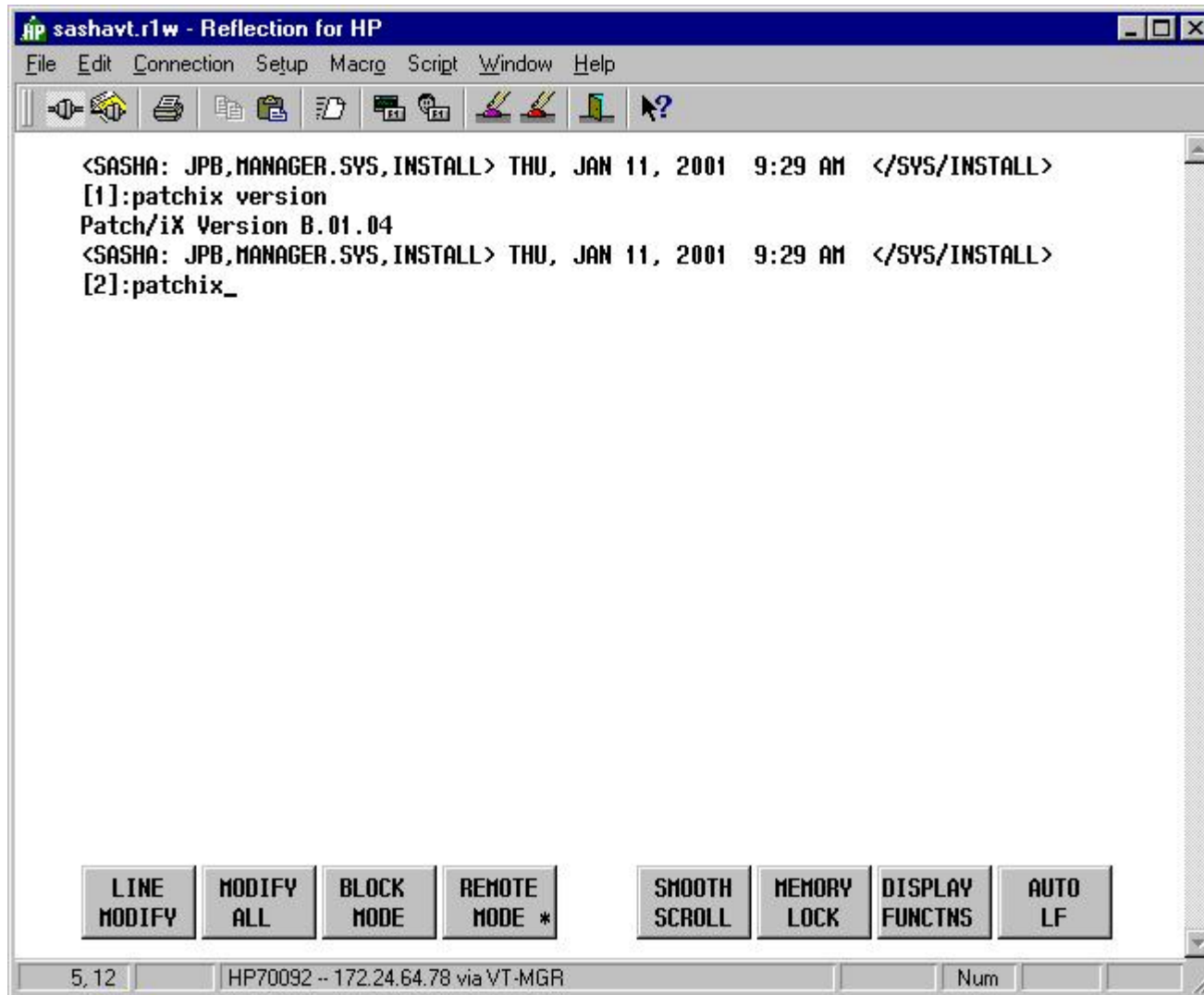
-u      use this local UNPACKP command filename (HFS syntax) instead of FTP-ing
ftp://us-ffs.external.hp.com/export/bin/unpackp

-y      change the default answer to "Y" (yes) for all prompts in the
DOWNLOADING PATCHES section
```

Retrieve patch MPELX57A using Patchman

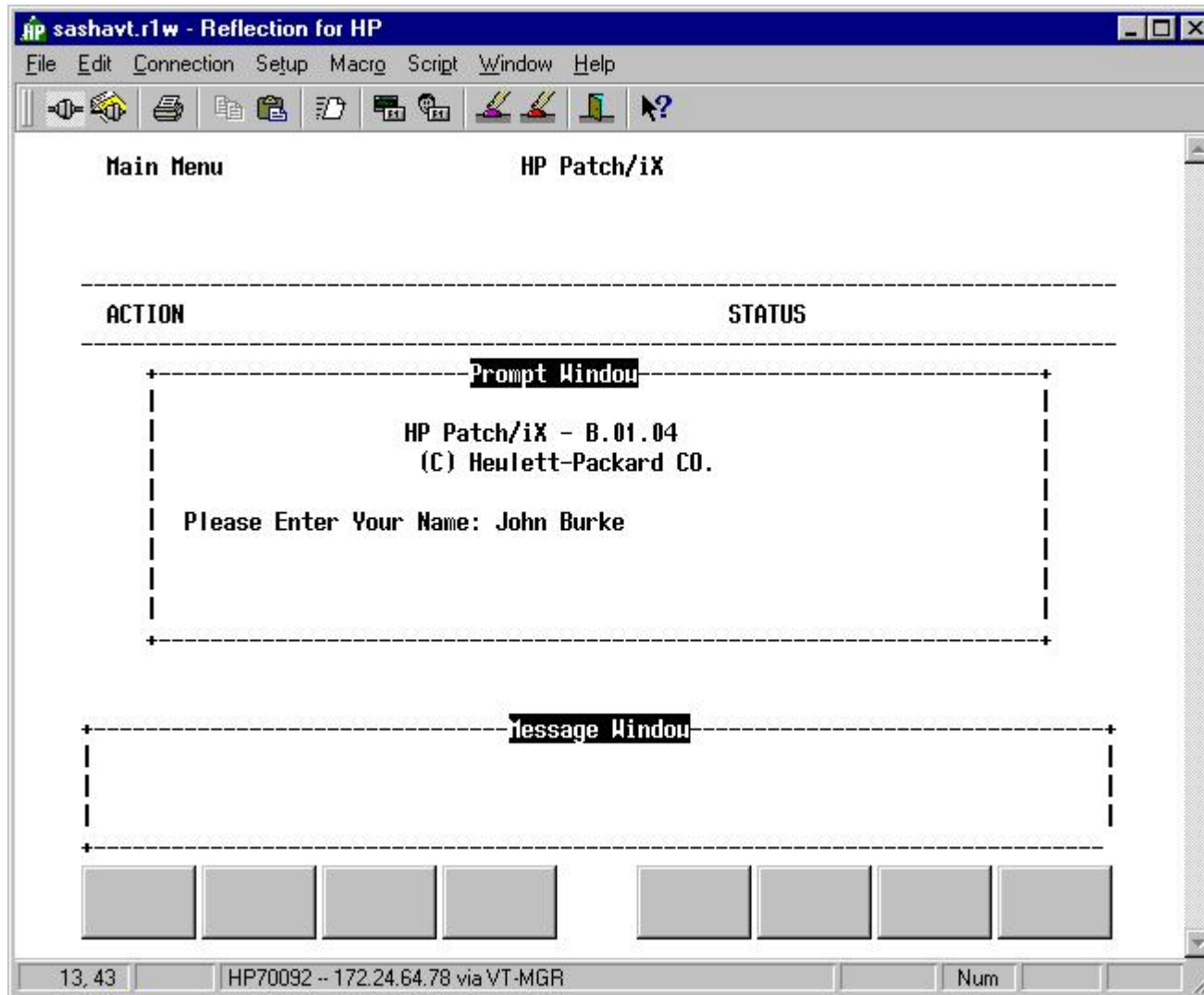
See handouts

Run PATCHIX



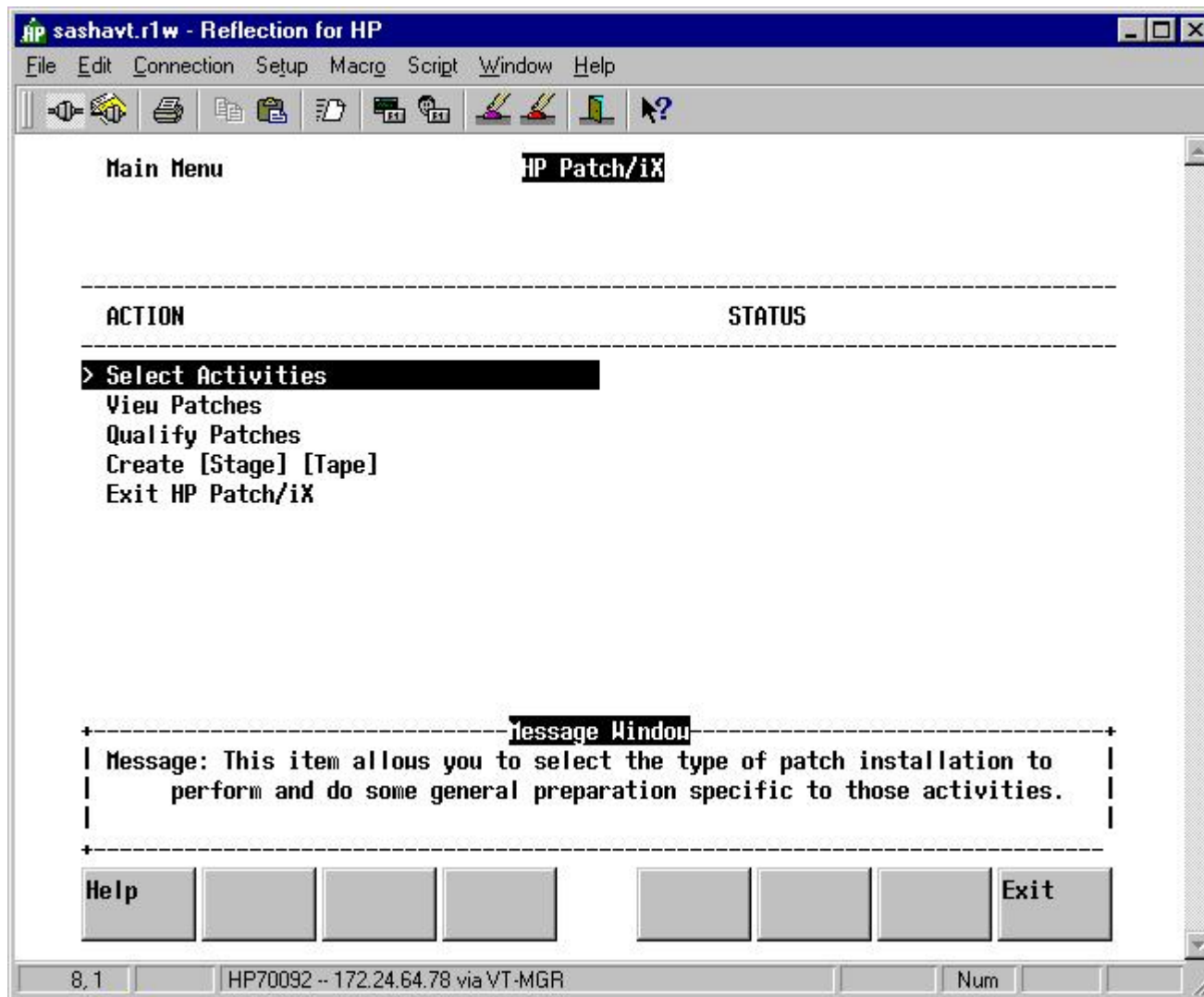
Sign on as “MANAGER.SYS,INSTALL”. Before proceeding, make sure you have the latest version of Patch/iX for your system and that you have validated all tapes. Your PowerPatch or Reactive patch tape will have an appropriate version of Patch/iX or you can download the latest from the ITRC.

Identify this instance of PATCHIX



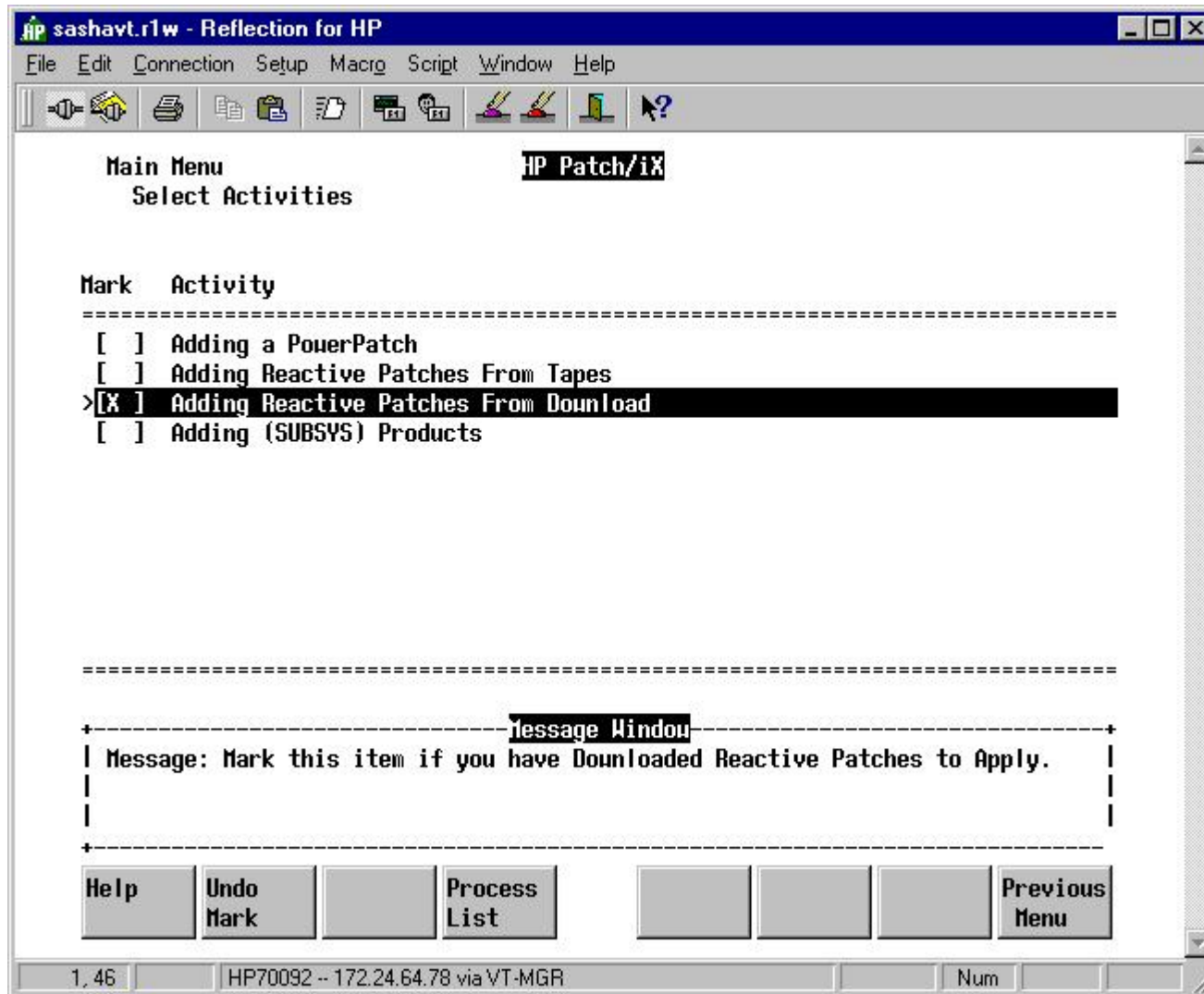
Enter you name here to identify this run of Patch/iX.

Main Menu - Select Activities



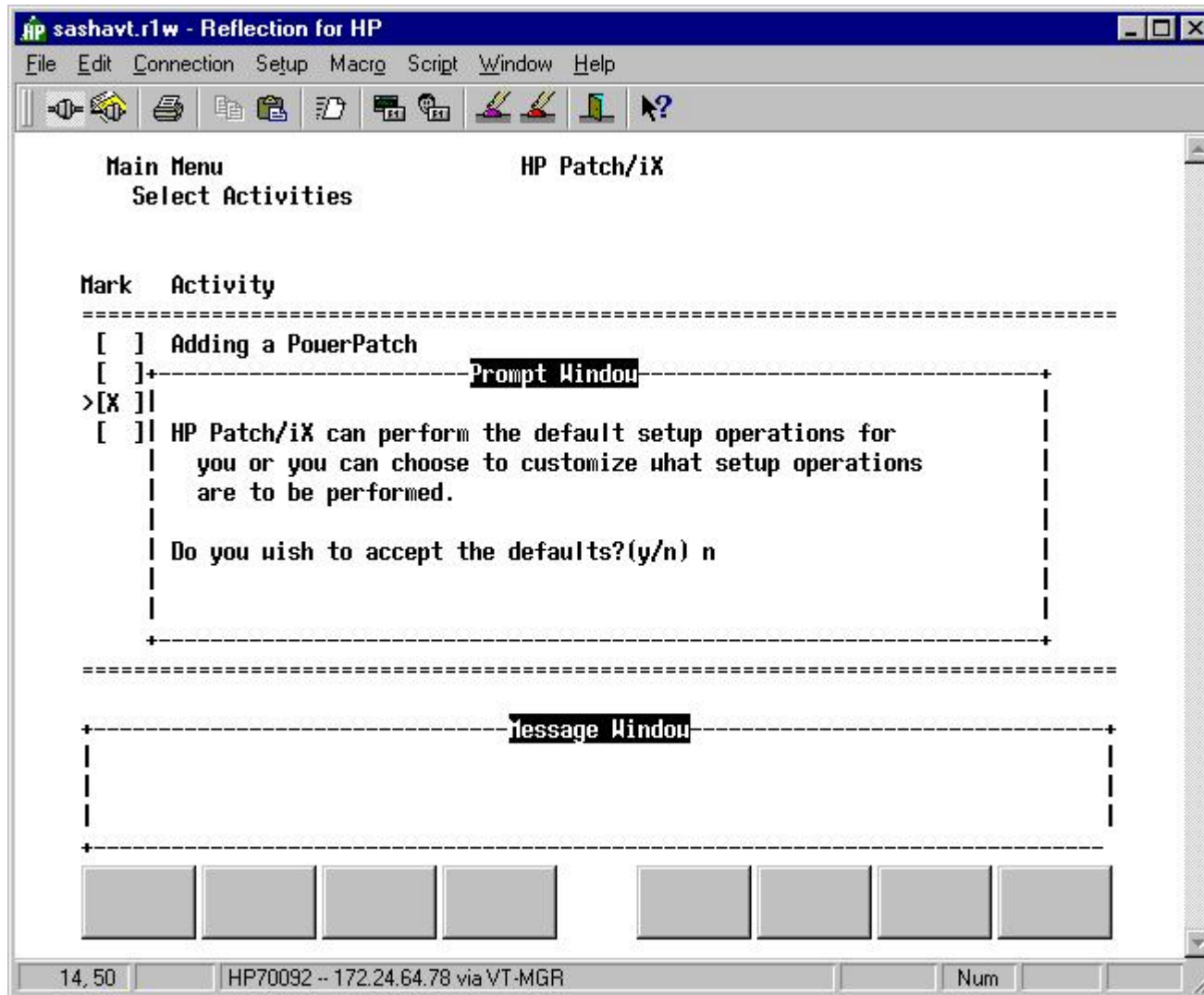
This is where you tell Patch/iX what you want to do. Hit RETURN to select this menu item.

Select Activity



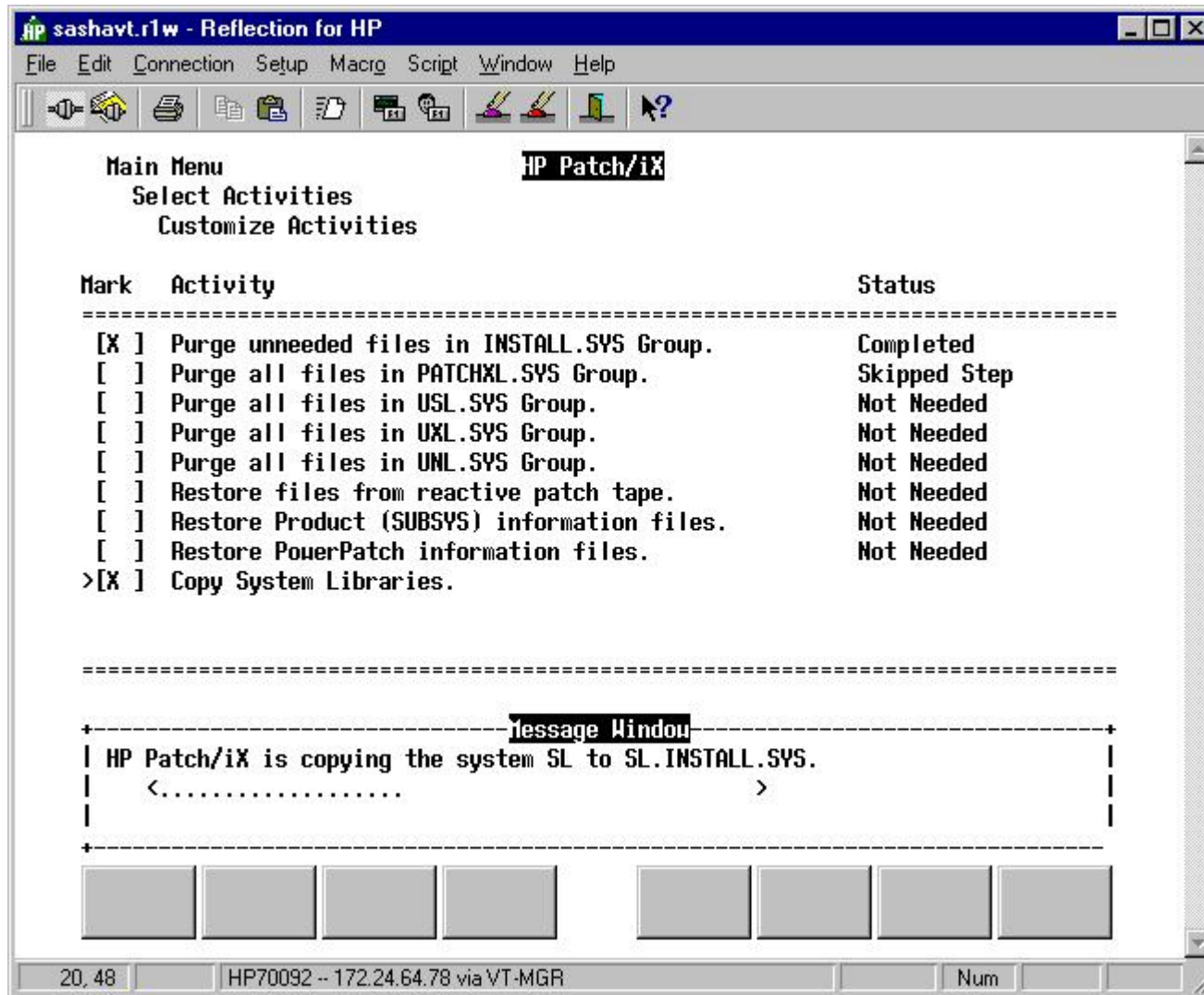
Press F2 to “mark” “Adding a Reactive Patches From Download” and then press F4 to process the list of activities. Note that you can apply a PowerPatch, add reactive patches and add SUBSYS products in one step.

Accept default setup?

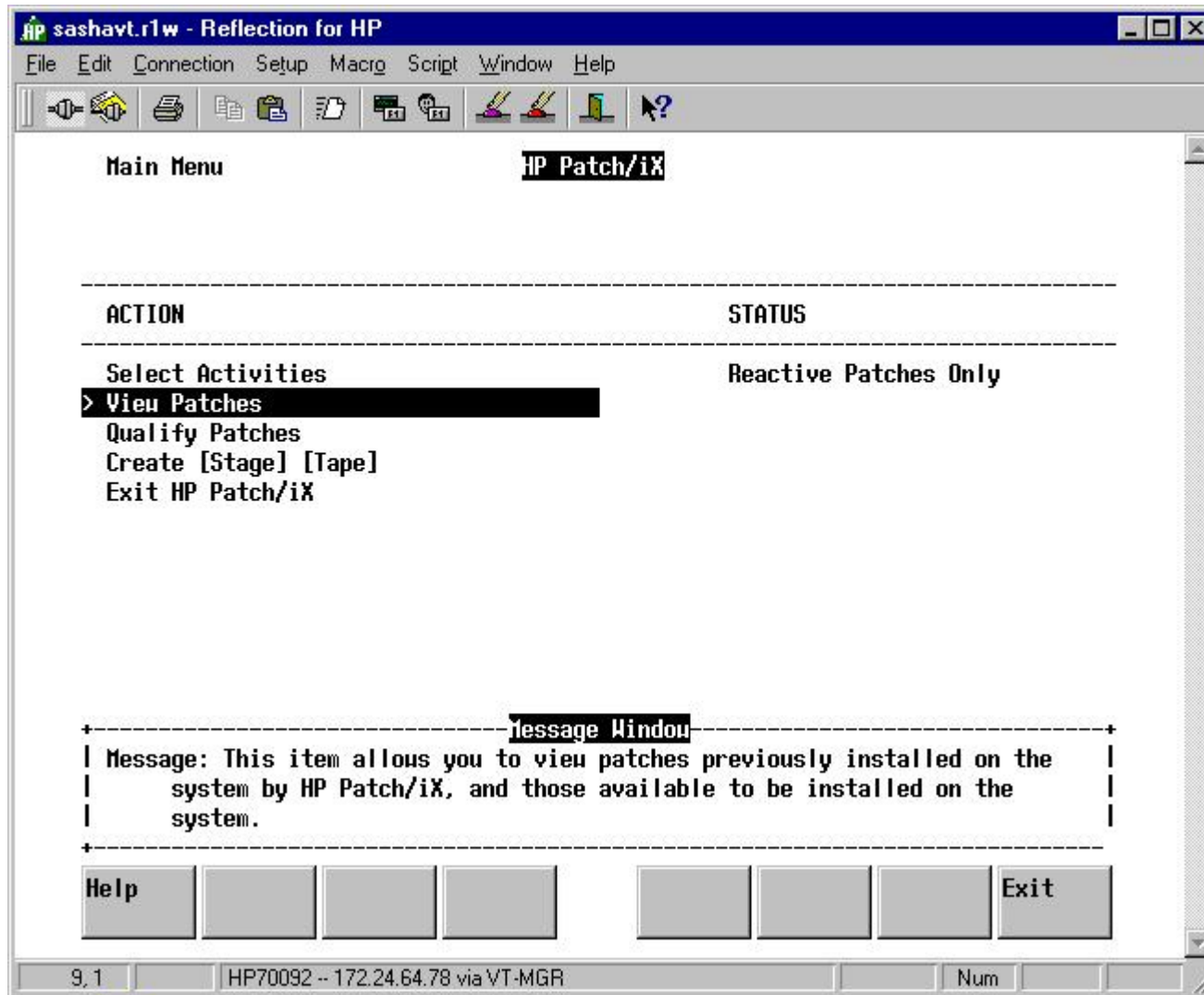


Generally speaking, you can say “yes” if you are just applying a PowerPatch. Otherwise, say “no”. It appears that the latest version of Patch/iX has been enhanced to eliminate the need to customize the setup; however, it is still a good idea to check anyway.

Perform Setup Activities

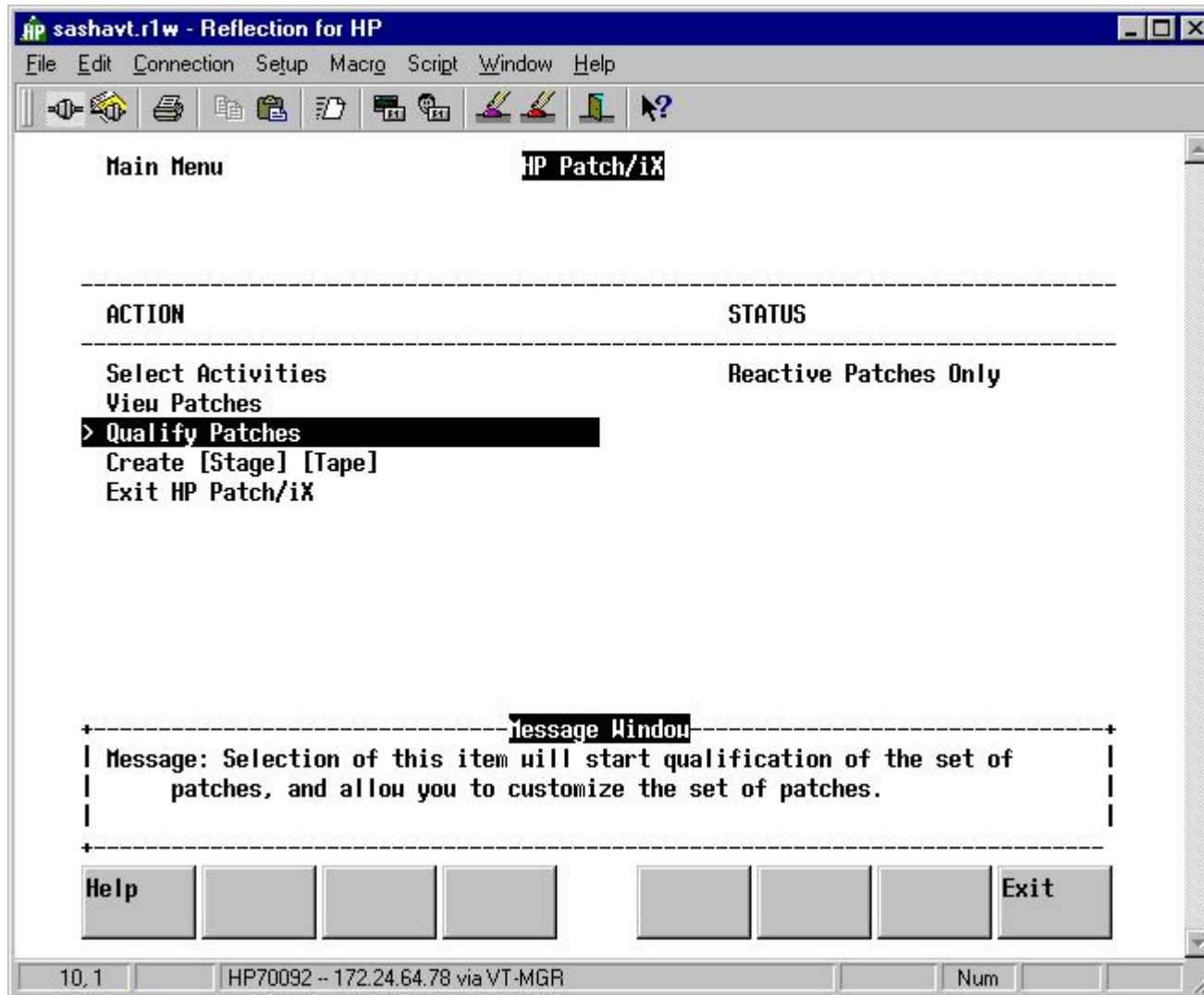


Main Menu - View Patches



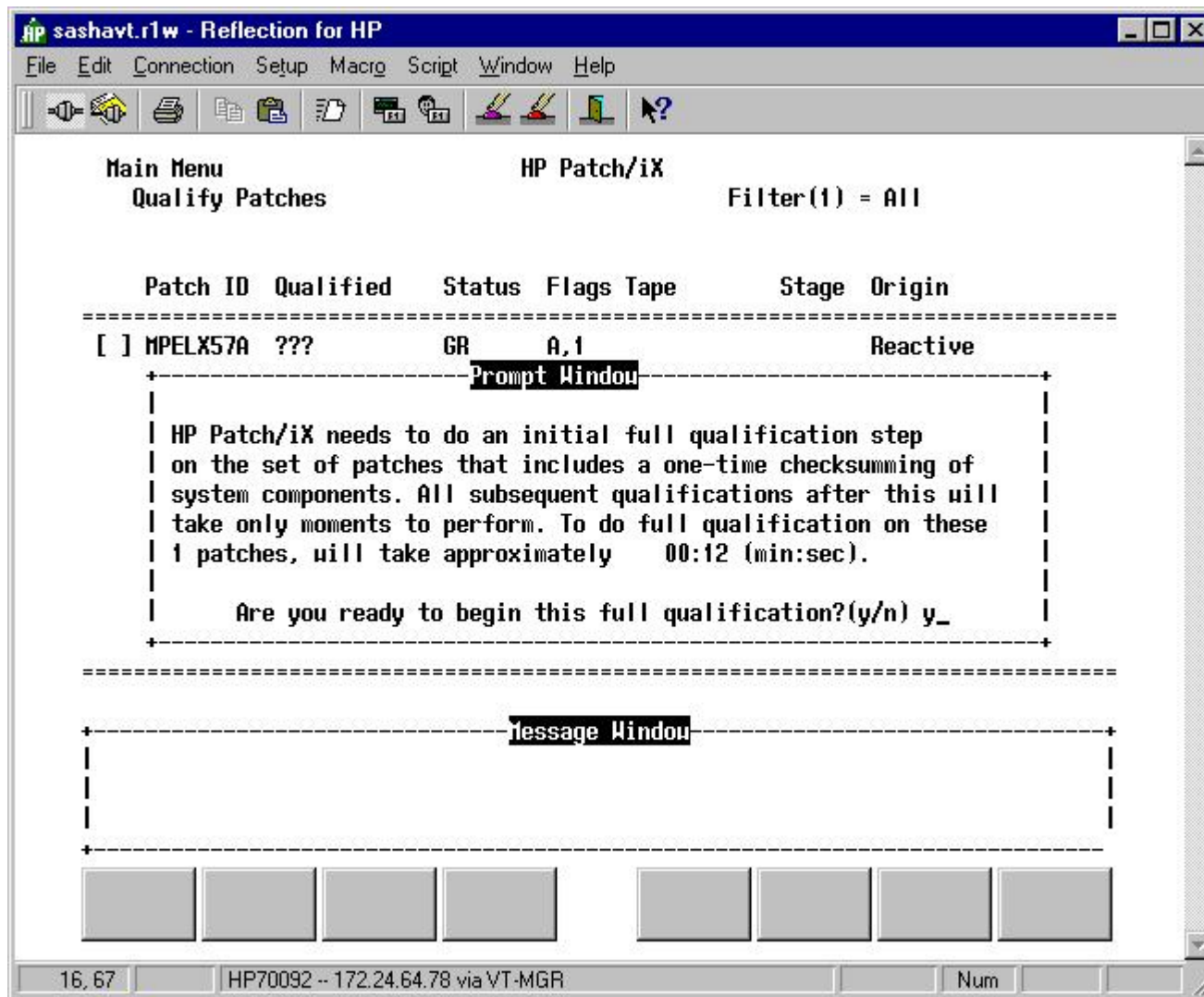
As before, this is optional. Presumably we've already checked that MPELX57A has not been installed.

Main Menu - Qualify Patches



Let's go right to qualifying the patch.

Begin Qualification Process?



Respond "yes" to continue.

Qualification Process

sashvt.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
[] MPCLX57A	???	GR	A,1			Reactive

Information Window

Patch Qualification in Progress

PowerPatch Patches:	0	Estimated Time:	00:12
Reactive Patches:	1	Elapsed Time:	00:14

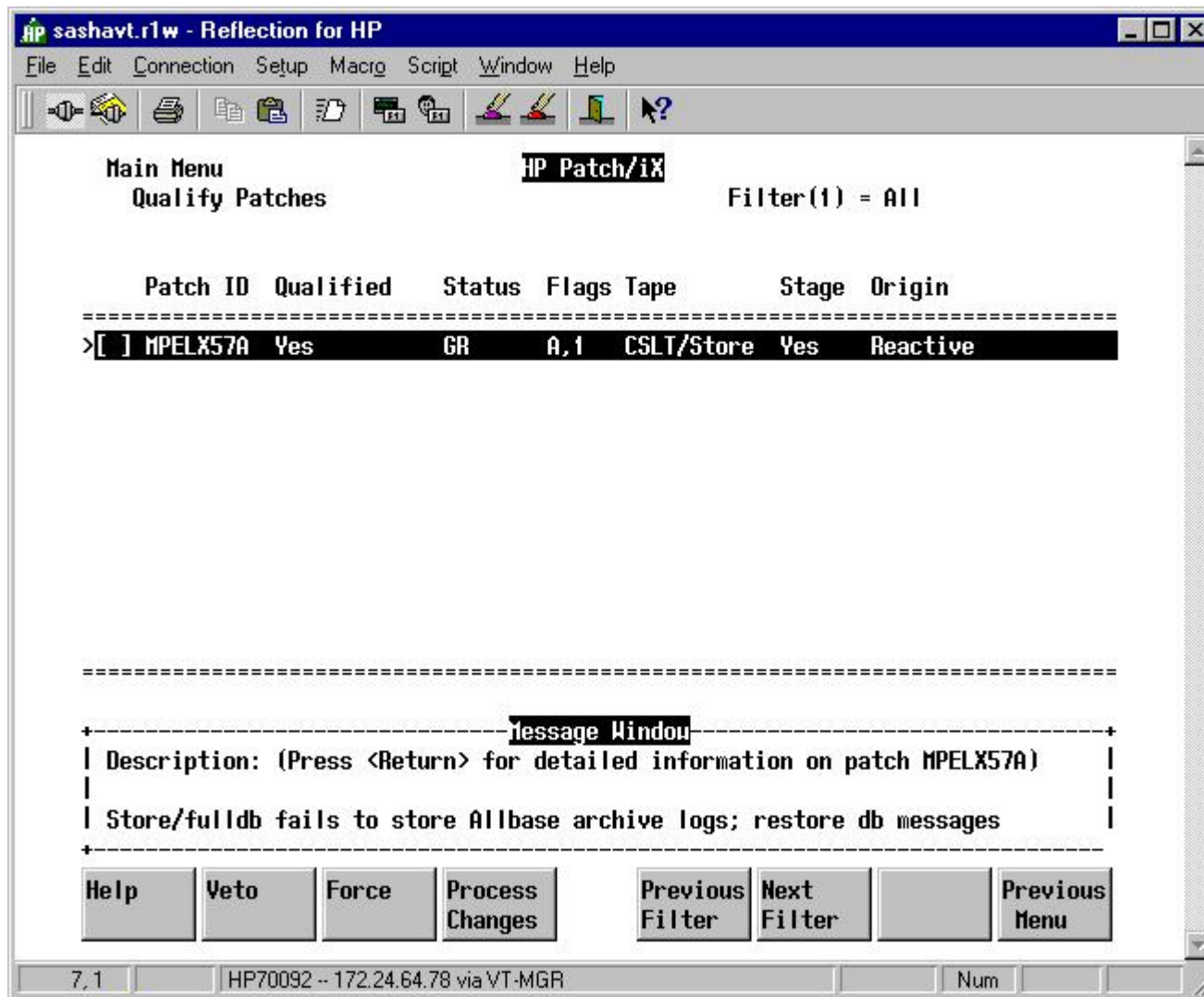
Message Window

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

<.....>

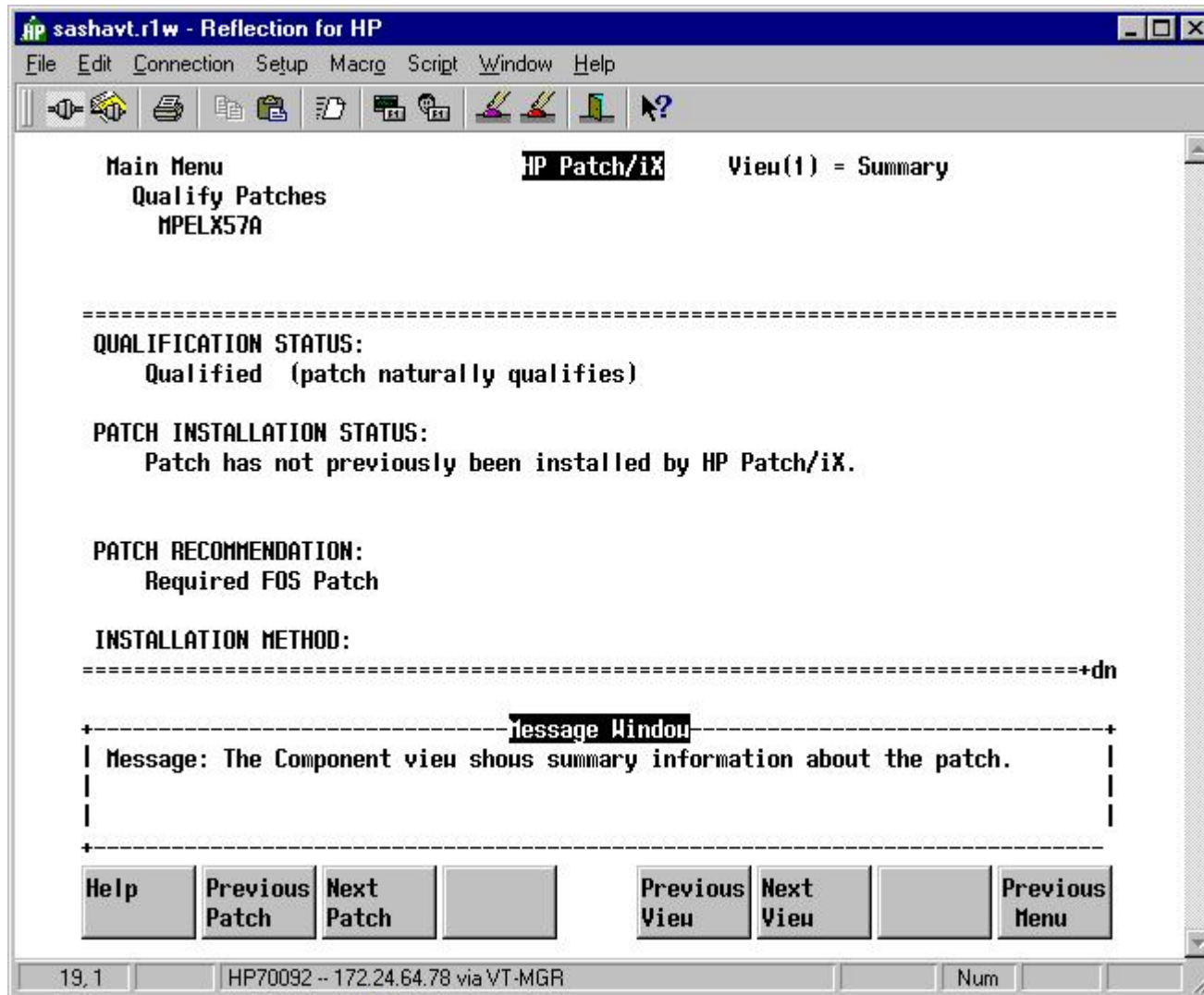
20, 48 HP70092 -- 172.24.64.78 via VT-MGR Num

Result of Qualification Process



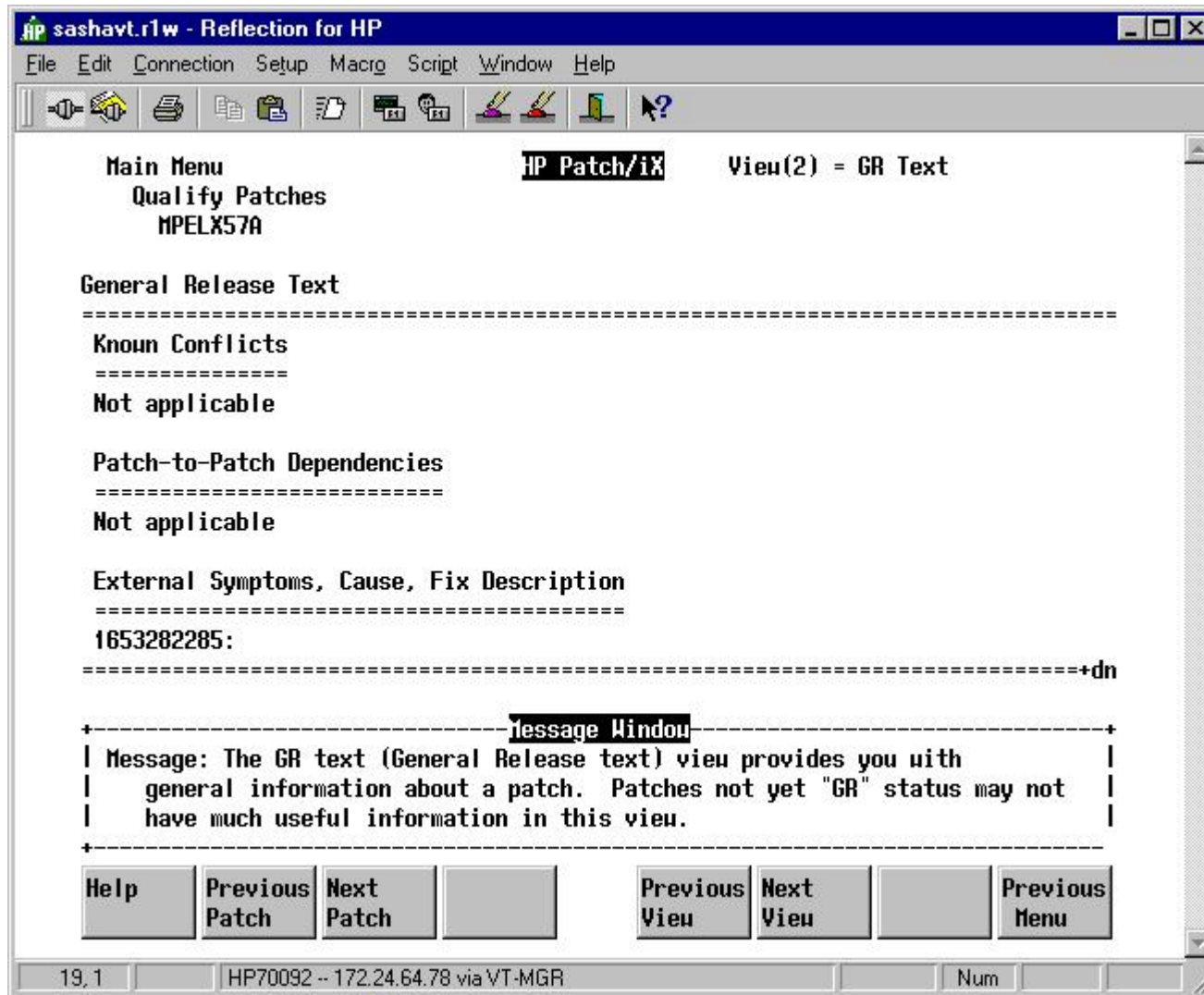
Surprise, surprise, it qualifies. If it did not, you would want to review why and discuss with your support provider.

View(1) = Summary

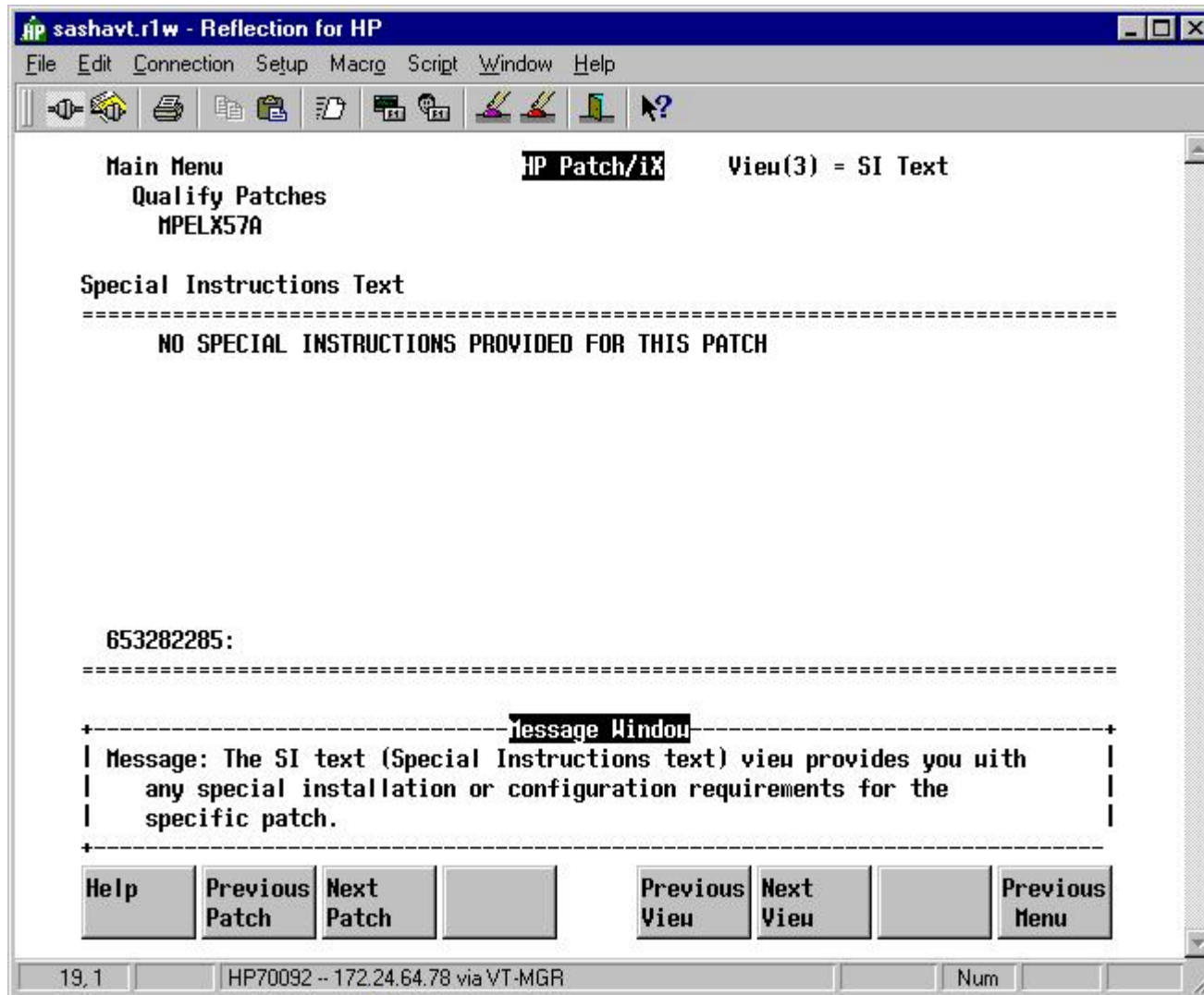


Let's go through all eight screens to see what this patch is all about. This is the exact same description as in the patch database of the ITRC.

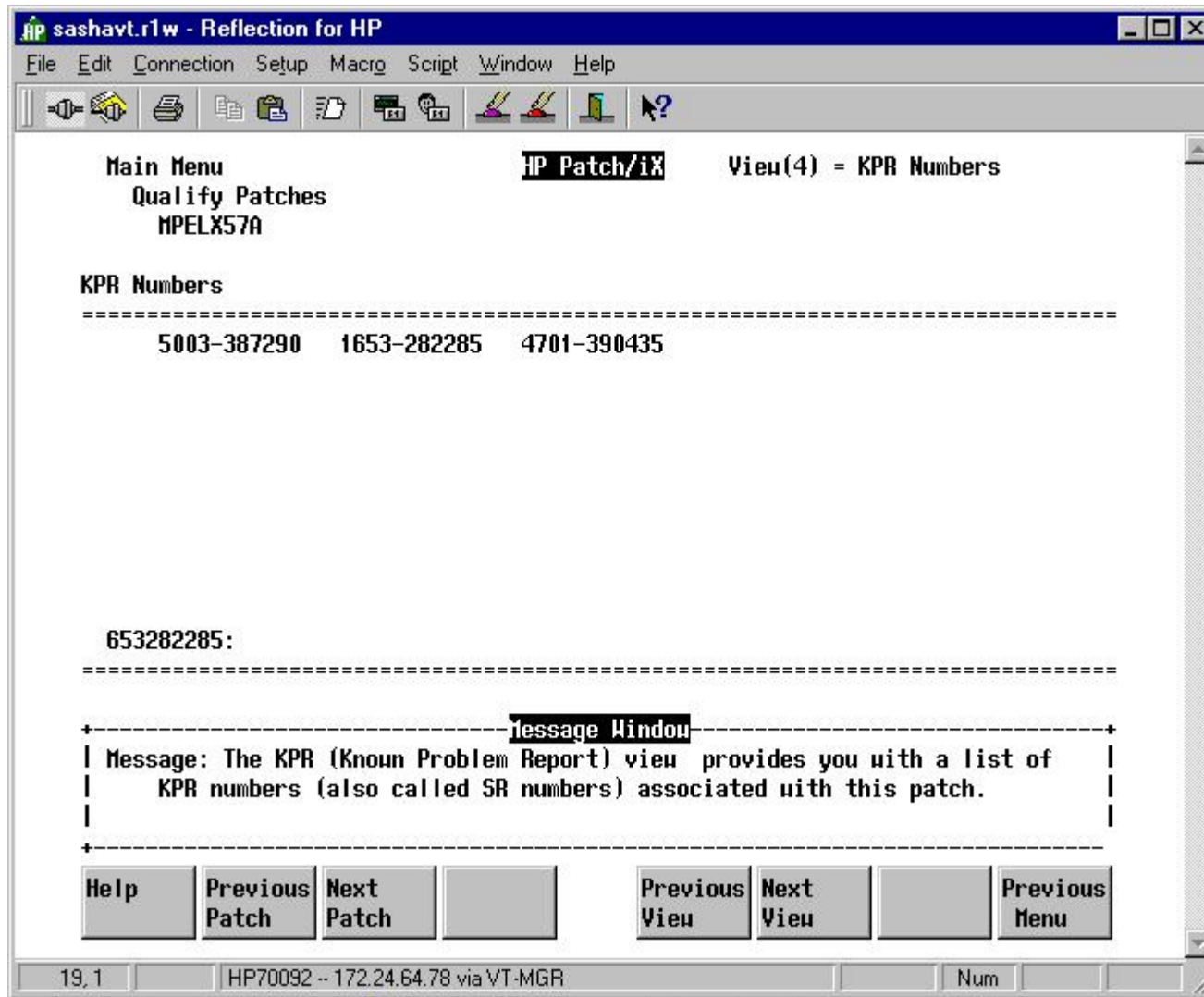
View(2) = GR Text



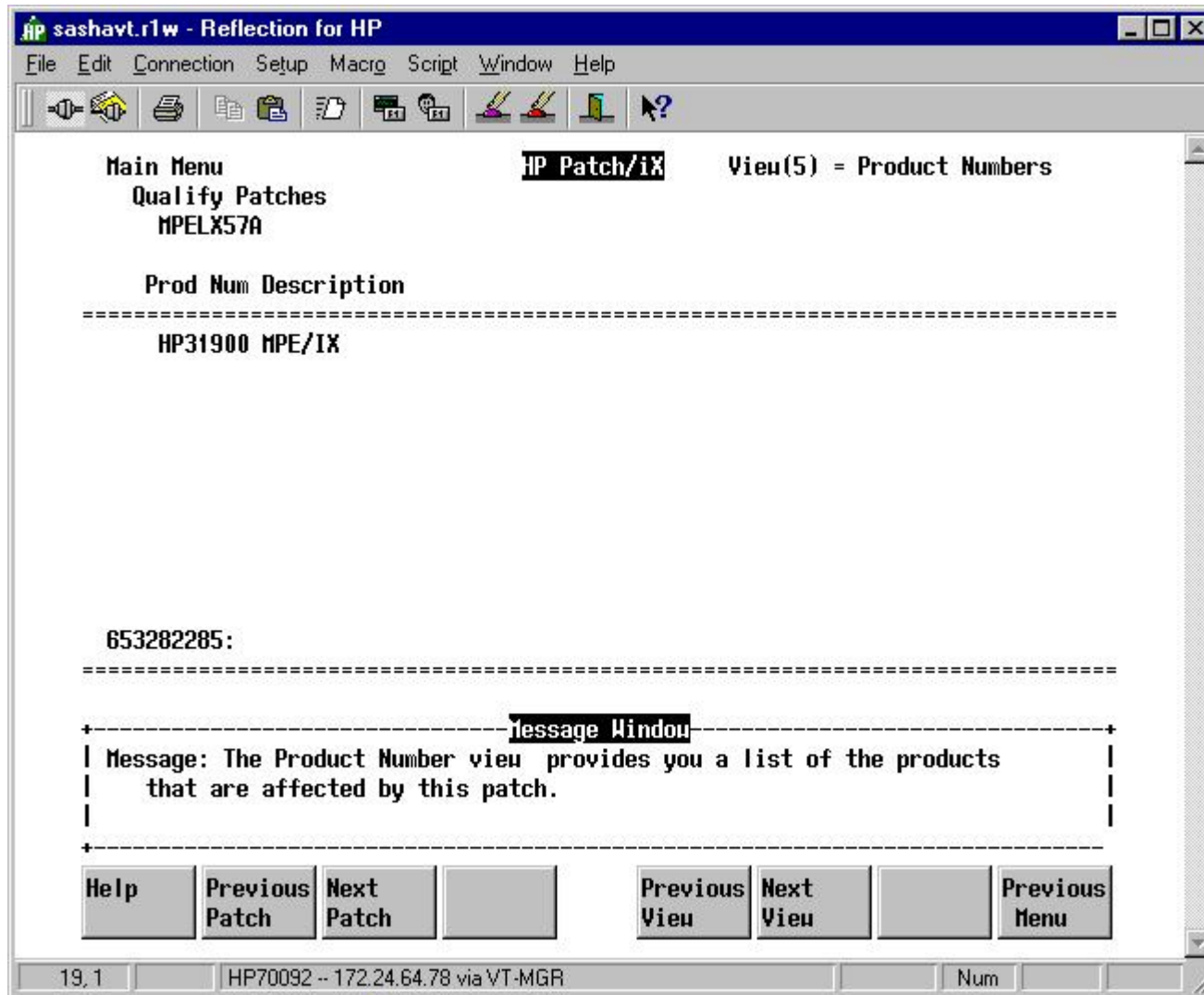
View(3) = SI Text



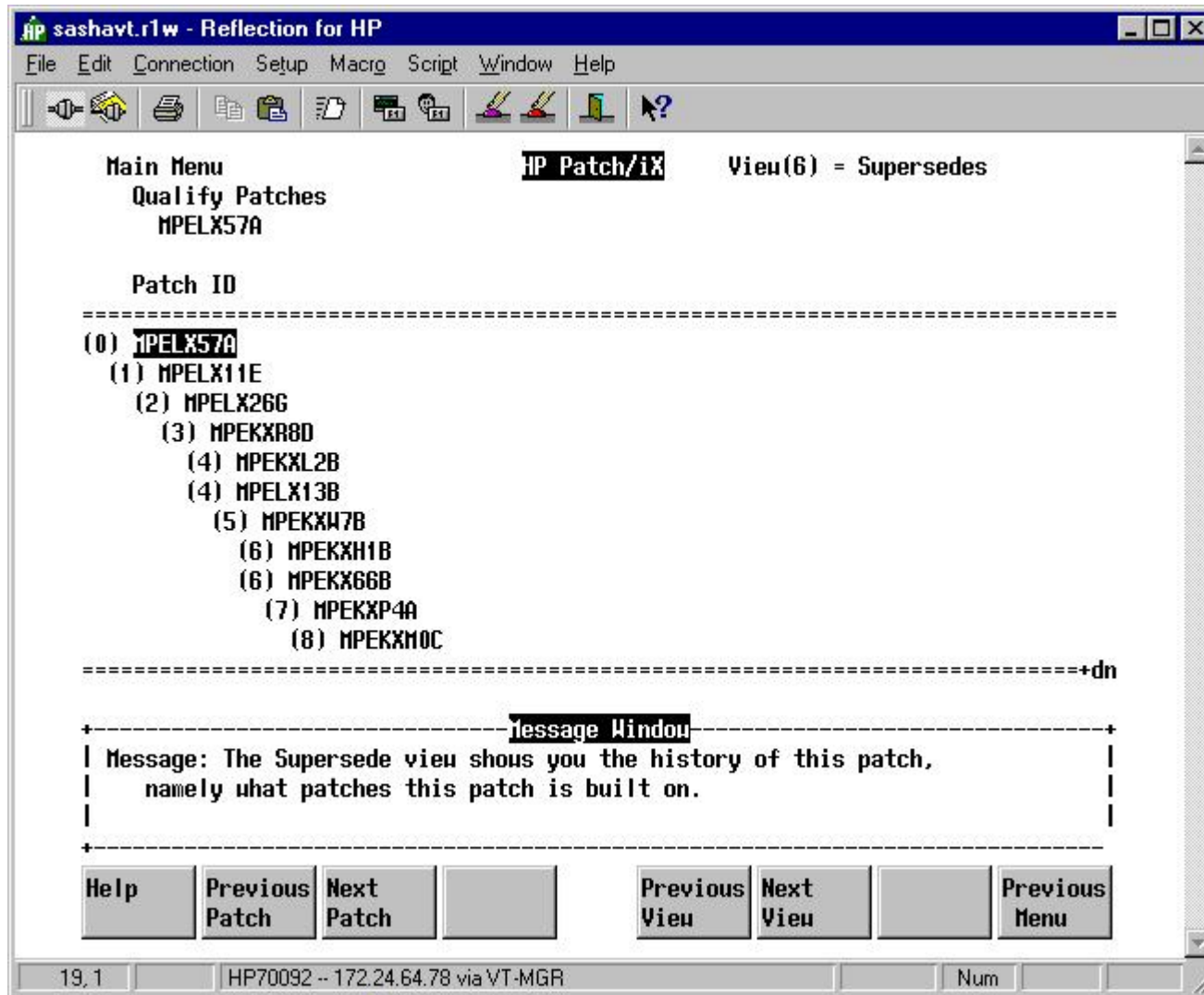
View(4) = KPR Numbers



View(5) = Product Numbers



View(6) = Supersedes



Ah, MPEKXR8D was the store-to-disk, abortproc and enhanced input site-specific patch.

View(7) = Patch Components

sashavt.r1w - Reflection for HP

File Edit Connection Setup Macro Script Window Help

Main Menu
Qualify Patches
MPELX57A

HP Patch/ix View(7) = Patch Components

ORGFILE	TARGFILE	PTYPE	CHKSUM	STATUS
C00LX57A.MPELX57A.PATCHIX	CICATERR.PUB.SYS	RP	%157414	MATCH
CATLX57A.MPELX57A.PATCHIX	CATALOG.PUB.SYS	RP	%50774	OK
CICLX57A.MPELX57A.PATCHIX	CICAT.PUB.SYS	RP	%17001	OK
ILOLX57A.MPELX57A.PATCHIX	ILOLX57A.UNL.SYS	NC	NA	OK
JOBLX57A.MPELX57A.PATCHIX	JOB.PUB.SYS	RP	%113321	MATCH
L00LX57A.MPELX57A.PATCHIX	L00LX57A.UNL.SYS	NC	NA	OK
NSTLX57A.MPELX57A.PATCHIX	STORE.PUB.SYS	RP	%124162	OK
R08LX57A.MPELX57A.PATCHIX	TSTORE_01	RP	%102602	OK
STOLX57A.MPELX57A.PATCHIX	STORECAT.PUB.SYS	RP	%130530	MATCH
U00LX57A.MPELX57A.PATCHIX	UISSEG3,S,00	RP	%107565	MATCH
UALLX57A.MPELX57A.PATCHIX	ALLOCSEG,S,00	RP	%40675	MATCH

-----+dn

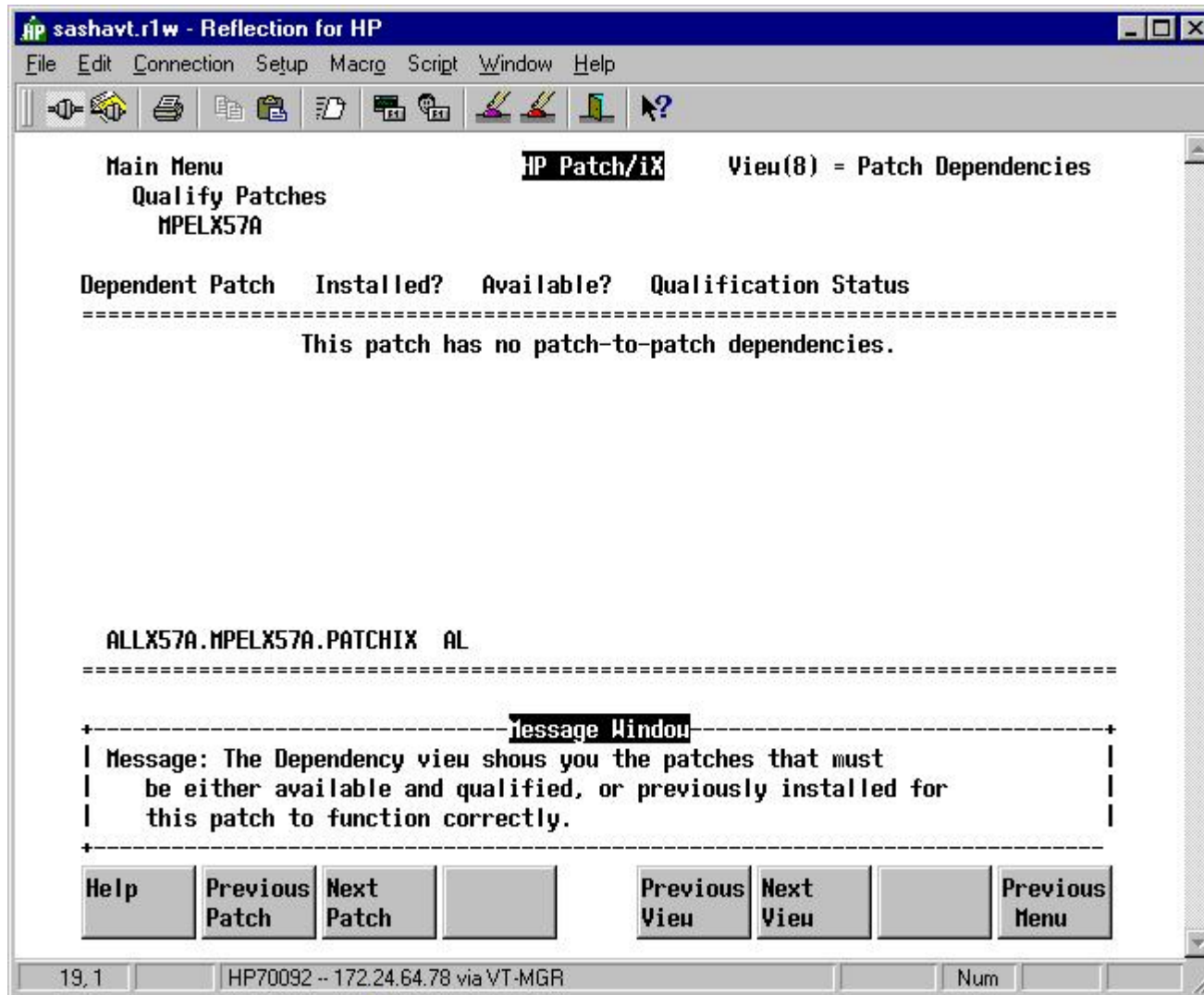
Message Window

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

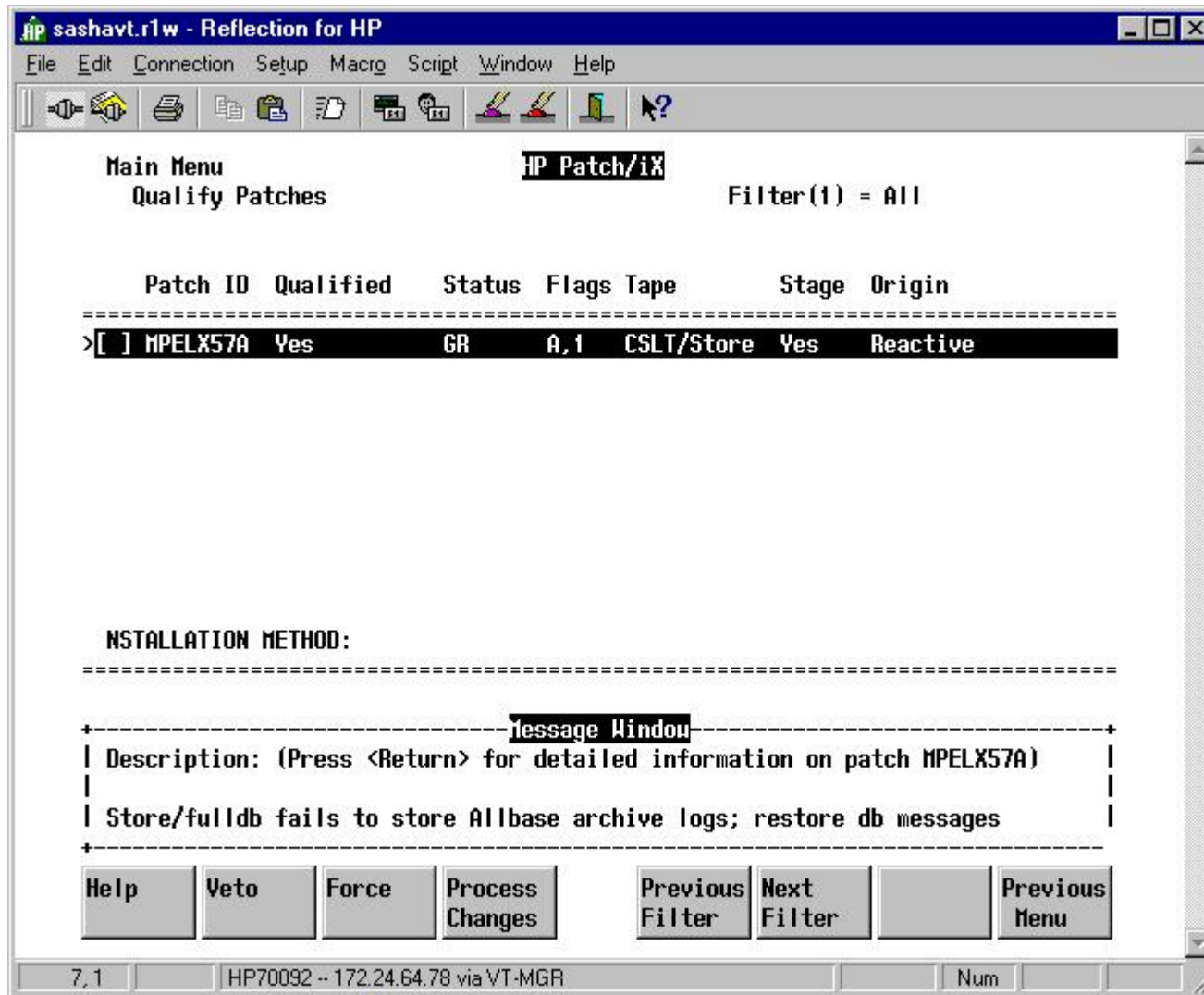
Help Previous Patch Next Patch Previous View Next View Previous Menu

19,1 HP70092 -- 172.24.64.78 via VT-MGR Num

View(8) = Patch Dependencies

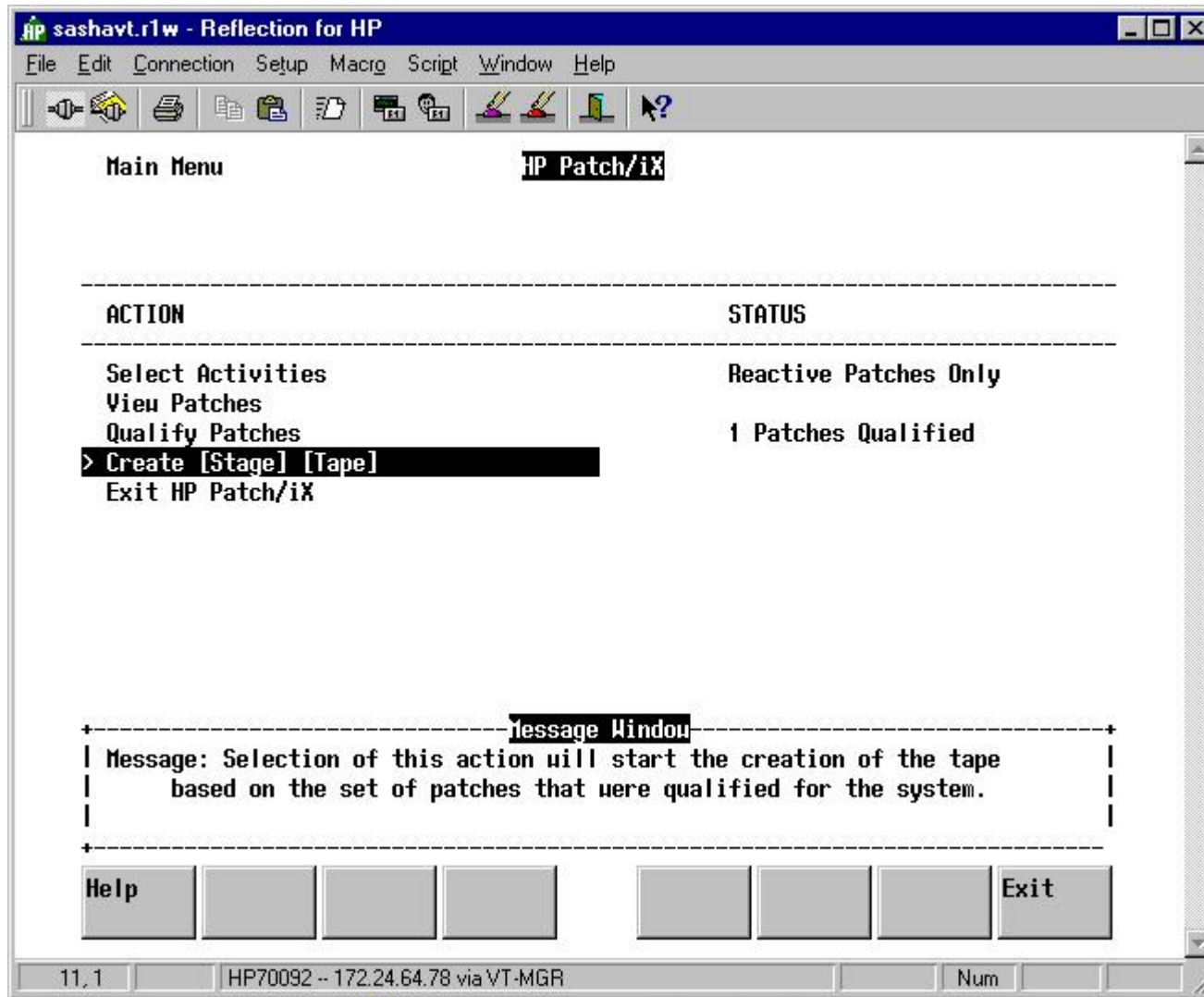


Back to Qualification Screen



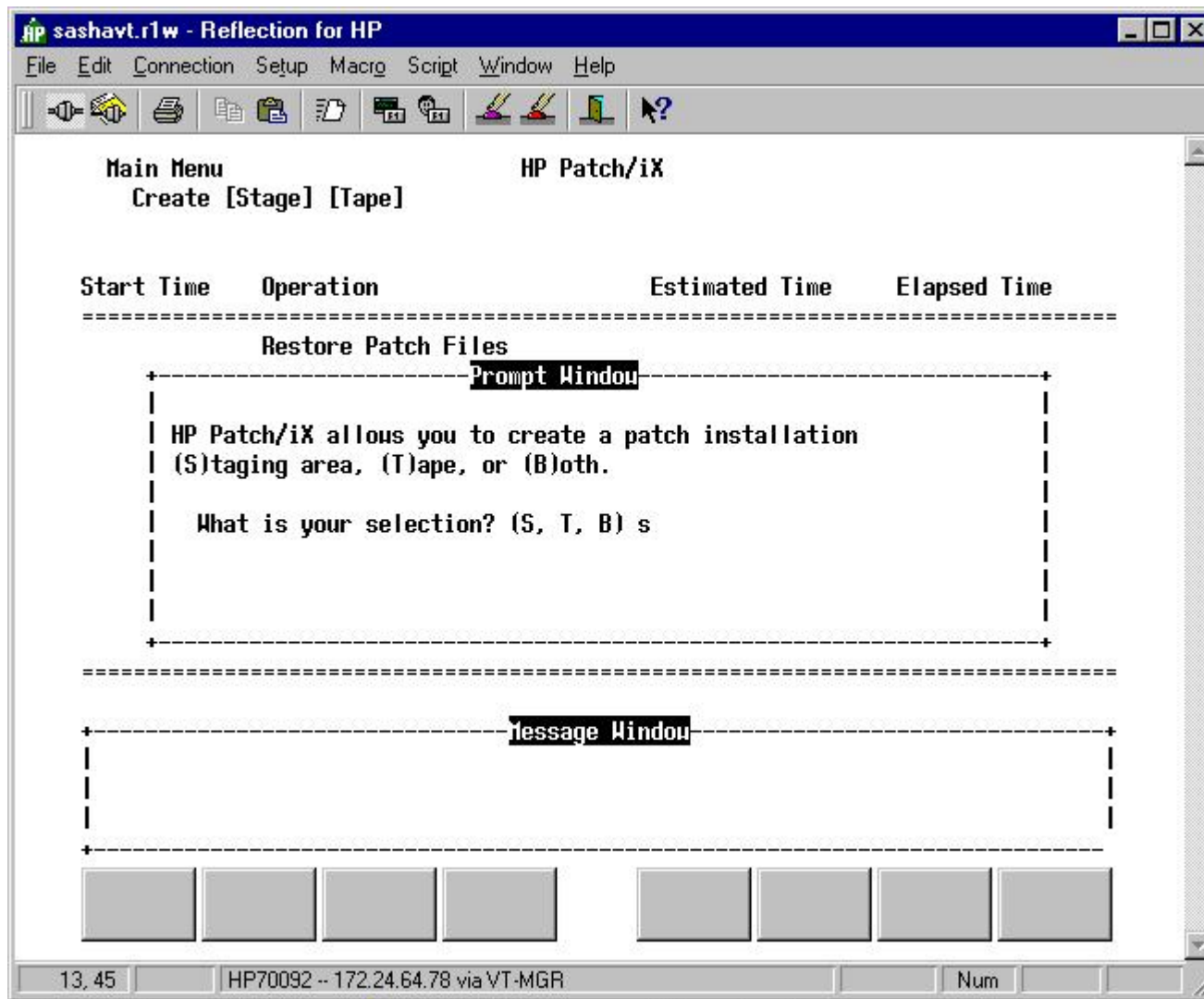
So, the only way we know this is the right patch is because it supercedes the patch with the enhancements we are looking for. Back to the main menu.

Main Menu - Create [Stage] [Tape]



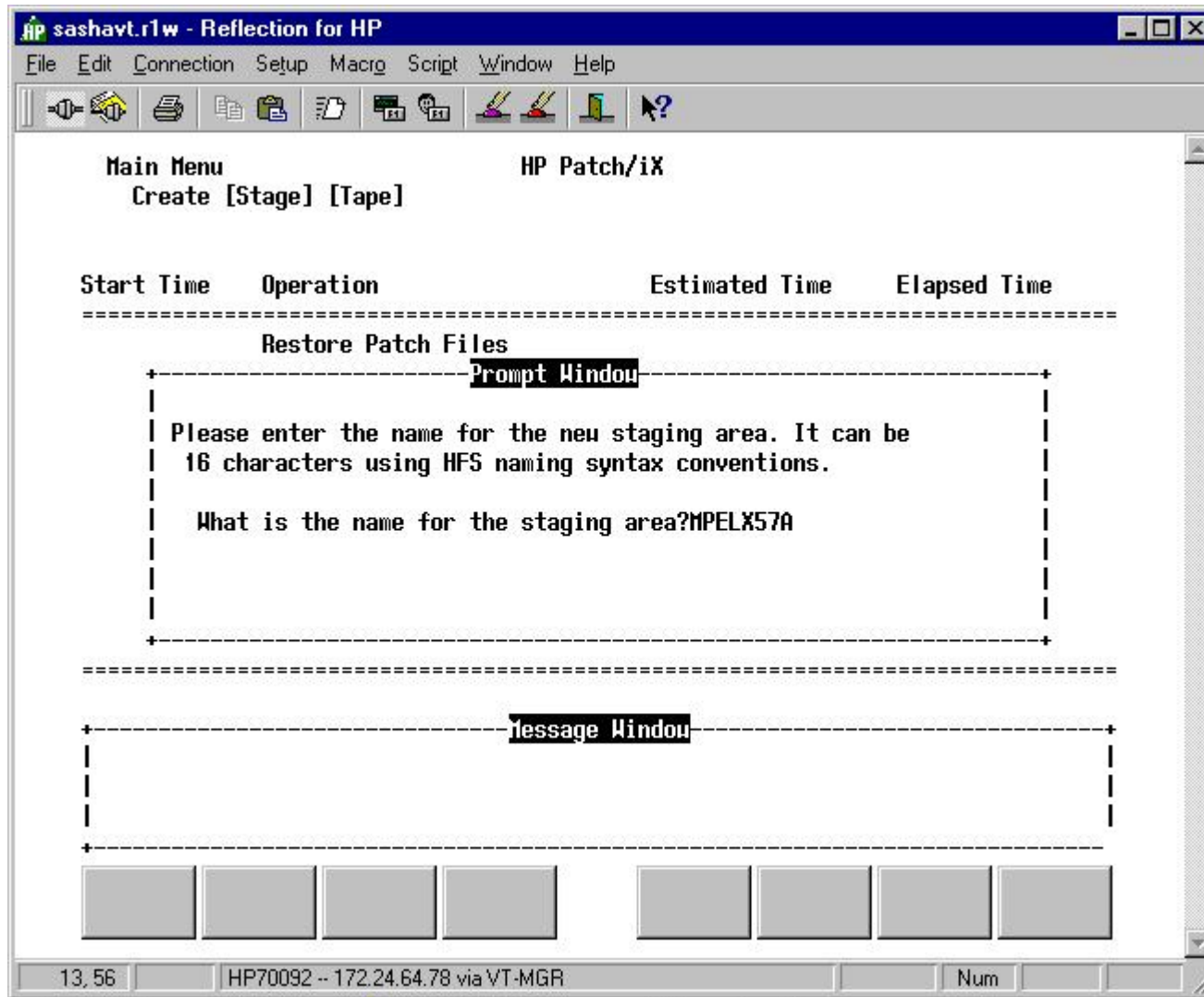
Note that since the patch is stageable and we initialized Stage/iX, we are now given the opportunity to stage the patch.

Stage, Tape or Both?



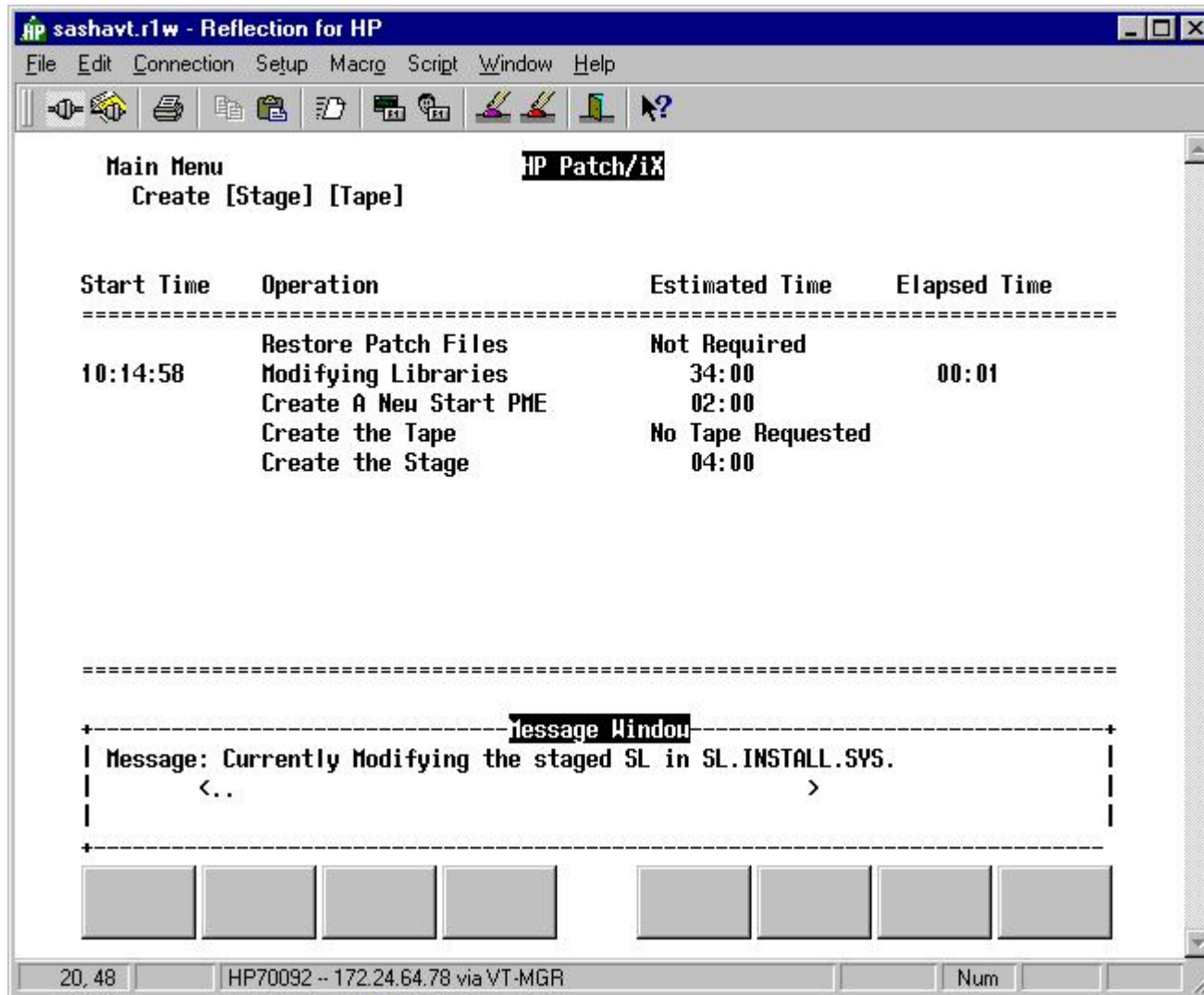
We'll just create the staging area.

Name Staging Area

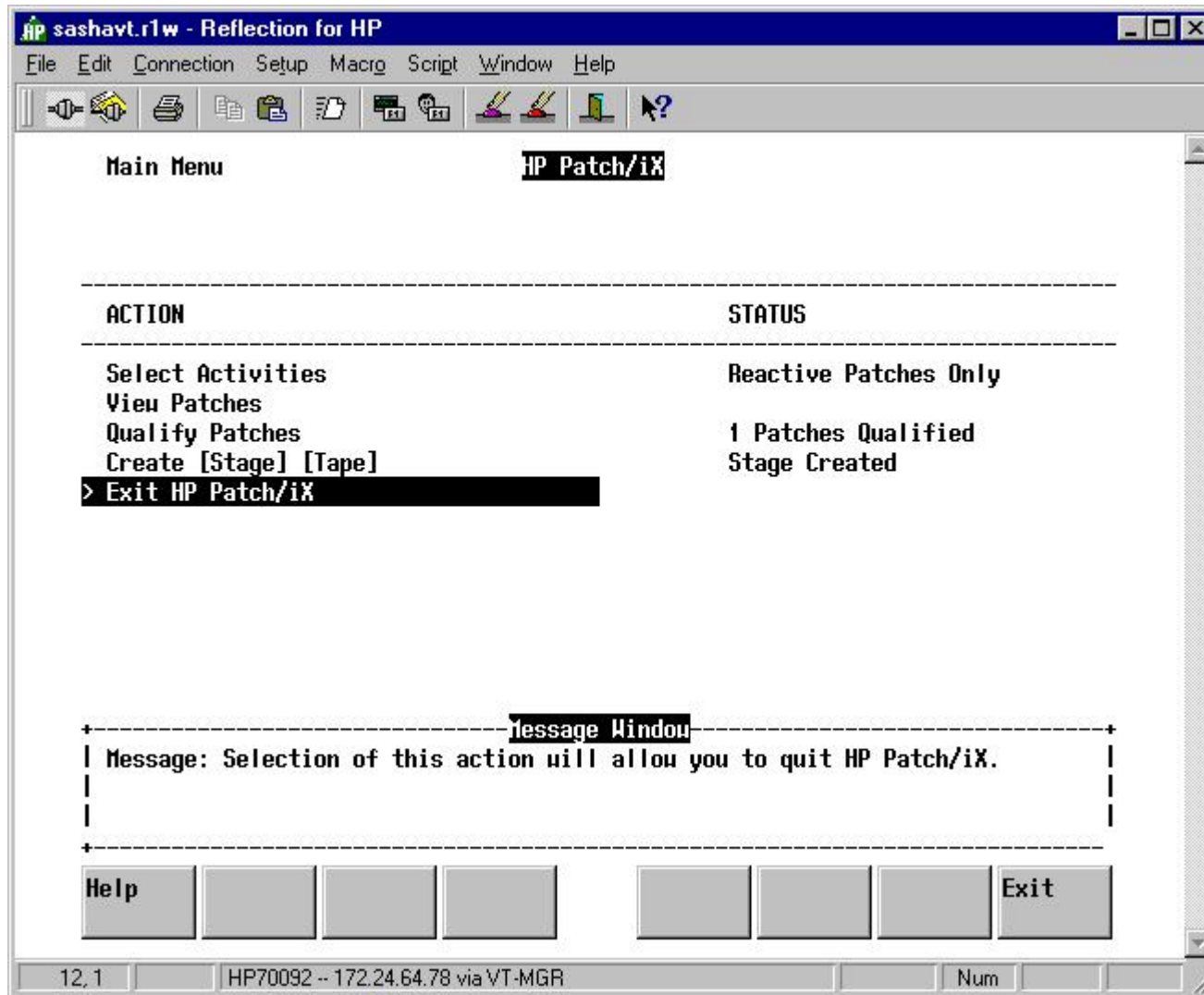


If it is just one Reactive Patch, use the patch name; otherwise think up something descriptive. Note that the name is case sensitive (we'll see this later).

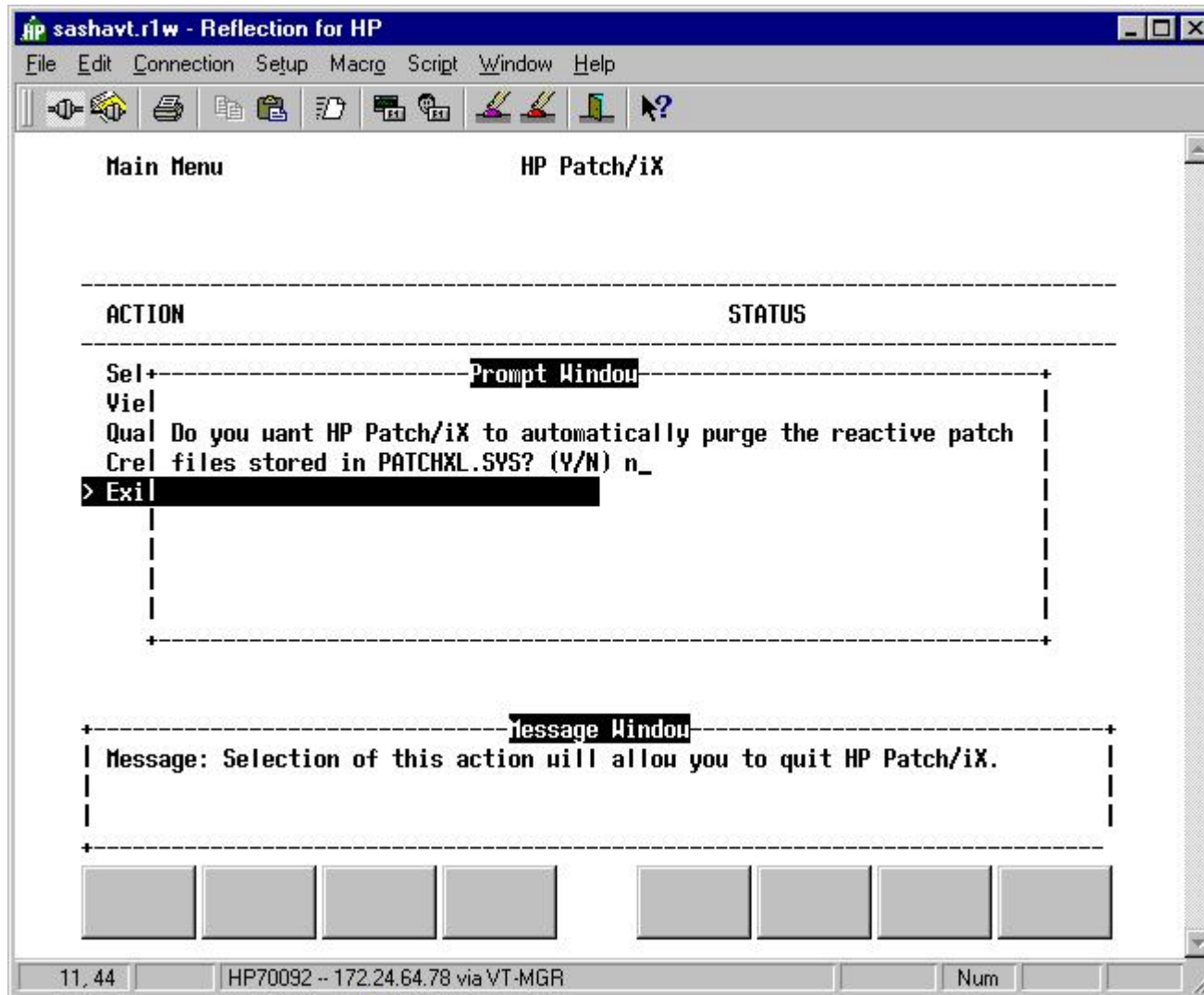
Creating the Stage



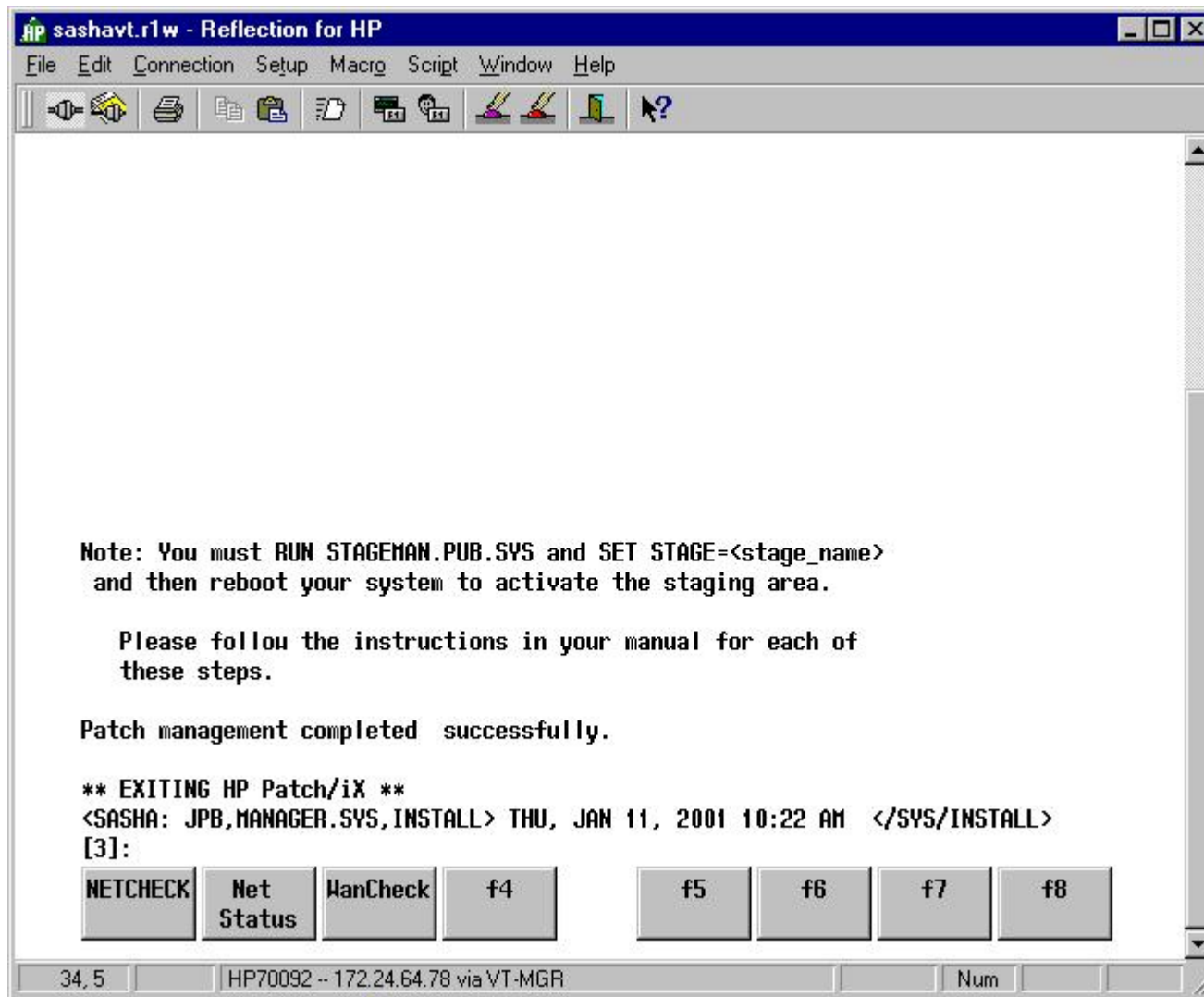
Main Menu - Exit



Purge files in PATCHXL.SYS?



What to do next?



What does hpstage look like now?

```
<SASHA: JPB,MANAGER.SYS,INSTALL> THU, JAN 11, 2001 10:22 AM </SYS/INSTALL>
[3]:listfile /SYS/hpstage/@,2;tree
PATH= /SYS/hpstage/
```

CODE	-----LOGICAL RECORD-----					----SPACE----			FILENAME
	SIZE	TYP	EOF	LIMIT	R/B	SECTORS	#X	MX	
	16W	HBD	0	67107839	1	32	1	*	MPELX57A/
	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

```
PATH= /SYS/hpstage/MPELX57A/
```

CODE	-----LOGICAL RECORD-----					----SPACE----			FILENAME
	SIZE	TYP	EOF	LIMIT	R/B	SECTORS	#X	MX	
	1276B	VA	1734	1023	1	512	1	*	AUTOLOG.INSTALL.SYS
	80B	FA	14054	14054	16	4400	1	1	CATALOG.PUB.SYS
	80B	FA	45363	45363	16	14224	1	29	CICAT.PUB.SYS
	80B	FA	28243	28243	16	9040	1	29	CICATERR.PUB.SYS
	80B	FA	386	6000	3	512	1	*	HPSWINFO.PUB.SYS
NMPRG	128W	FB	223	223	1	224	1	8	JOB.PUB.SYS
NMXL	128W	FB	116032	4096000	1	116896	1	*	NL.PUB.SYS
	80B	FA	120	100000	3	256	1	*	PATCHAUD.PUB.SYS
	1B	BA	14168	2147483647	1	64	1	*	PMSWINFO.PUB.SYS
SL	128W	FB	135441	320000	1	137440	1	*	SL.PUB.SYS
	80B	FA	134	15000	3	48	1	*	STAGELOG.INSTALL.SYS
	1024W	FB	4143	8192	1	34816	1	*	START.MPEXL.SYS
NMPRG	128W	FB	6202	6202	1	6208	1	8	STORE.PUB.SYS
	80B	FA	3905	3905	16	1232	1	1	STORECAT.PUB.SYS
	80B	FA	2643	2643	16	832	1	1	VSTORCAT.PUB.SYS
	512W	FB	16	10000	1	256	1	*	stage_contents

STAGEMAN SET command

```
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]
```

SET MPELX57A

```
<SASHA: JPB,MANAGER.SYS,INSTALL> THU, JAN 11, 2001 10:34 AM </SYS/INSTALL>
```

```
[4]:stageman
```

```
STAGEMAN A.01.00, (C) Hewlett-Packard Co., 1995. All Rights Reserved.
```

```
STAGEMAN> list
```

STAGING AREA NAME	MOD DATE	V	DESCRIPTION
-------------------	----------	---	-------------

MPELX57A	01/11/01	V	Reactive Patches User: John Burke
----------	----------	---	--------------------------------------

```
STAGEMAN> status
```

```
Last booted with:      BASE
```

```
Next boot will be with: BASE
```

```
STAGEMAN> set MPELX57A
```

```
Set staging area for next boot to "MPELX57A".
```

```
STAGEMAN> status
```

```
Last booted with:      BASE
```

```
Next boot will be with: MPELX57A
```

```
STAGEMAN> exit
```

```
<SASHA: JPB,MANAGER.SYS,INSTALL> THU, JAN 11, 2001 10:37 AM </SYS/INSTALL>
```

```
[5]:
```

The next slide shows what hpstage looks like after the SET command.

<SASHA: CONSOLE,MANAGER.SYS,PUB> THU, JAN 11, 2001 10:59 AM </SYS/PUB>

[1]: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	*	MPELX57A/
	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

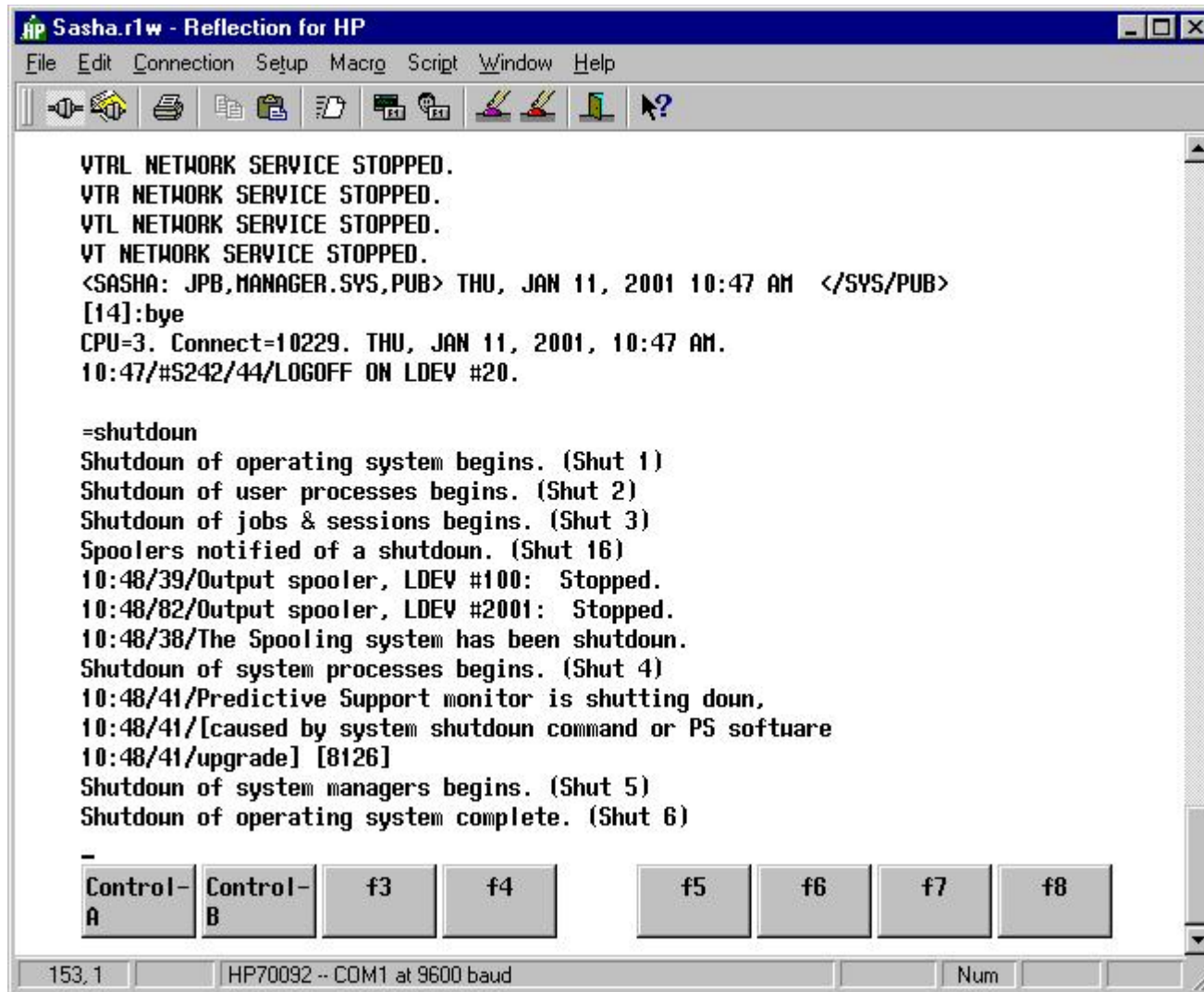
PATH= /SYS/hpstage/MPELX57A/

CODE	SIZE	TYP	EOF	LIMIT	R/B	SECTORS	#X	MX	FILENAME
	1276B	VA	1734	1023	1	512	1	*	AUTOLOG.INSTALL.SYS
	80B	FA	134	15000	3	48	1	*	STAGELOG.INSTALL.SYS
	512W	FB	16	10000	1	256	1	*	stage_contents

PATH= /SYS/hpstage/base_archive/

CODE	SIZE	TYP	EOF	LIMIT	R/B	SECTORS	#X	MX	FILENAME
	80B	FA	14044	14044	16	4400	18	*	CATALOG.PUB.SYS
	80B	FA	45149	45149	16	14160	1	29	CICAT.PUB.SYS
	80B	FA	28243	28243	16	9040	1	29	CICATERR.PUB.SYS
	80B	FA	378	5000	3	512	2	8	HPSWINFO.PUB.SYS
NMPRG	128W	FB	223	223	1	224	2	*	JOB.PUB.SYS
NMXL	128W	FB	114041	4096000	1	114688	59	*	NL.PUB.SYS
	80B	FA	5089	100000	3	2000	1	*	PATCHAUD.PUB.SYS
	1B	BA	13860	2147483647	1	64	1	*	PMSWINFO.PUB.SYS
SL	128W	FB	133970	320000	1	135168	69	*	SL.PUB.SYS
	1024W	FB	4107	4107	1	32864	1	1	START.MPEXL.SYS
NMPRG	128W	FB	6274	6274	1	6288	25	*	STORE.PUB.SYS
	80B	FA	3905	3905	16	1232	5	*	STORECAT.PUB.SYS
	80B	FA	2643	2643	16	832	4	*	VSTORCAT.PUB.SYS

System Shutdown



```
Sasha.r1w - Reflection for HP
File Edit Connection Setup Macro Script Window Help

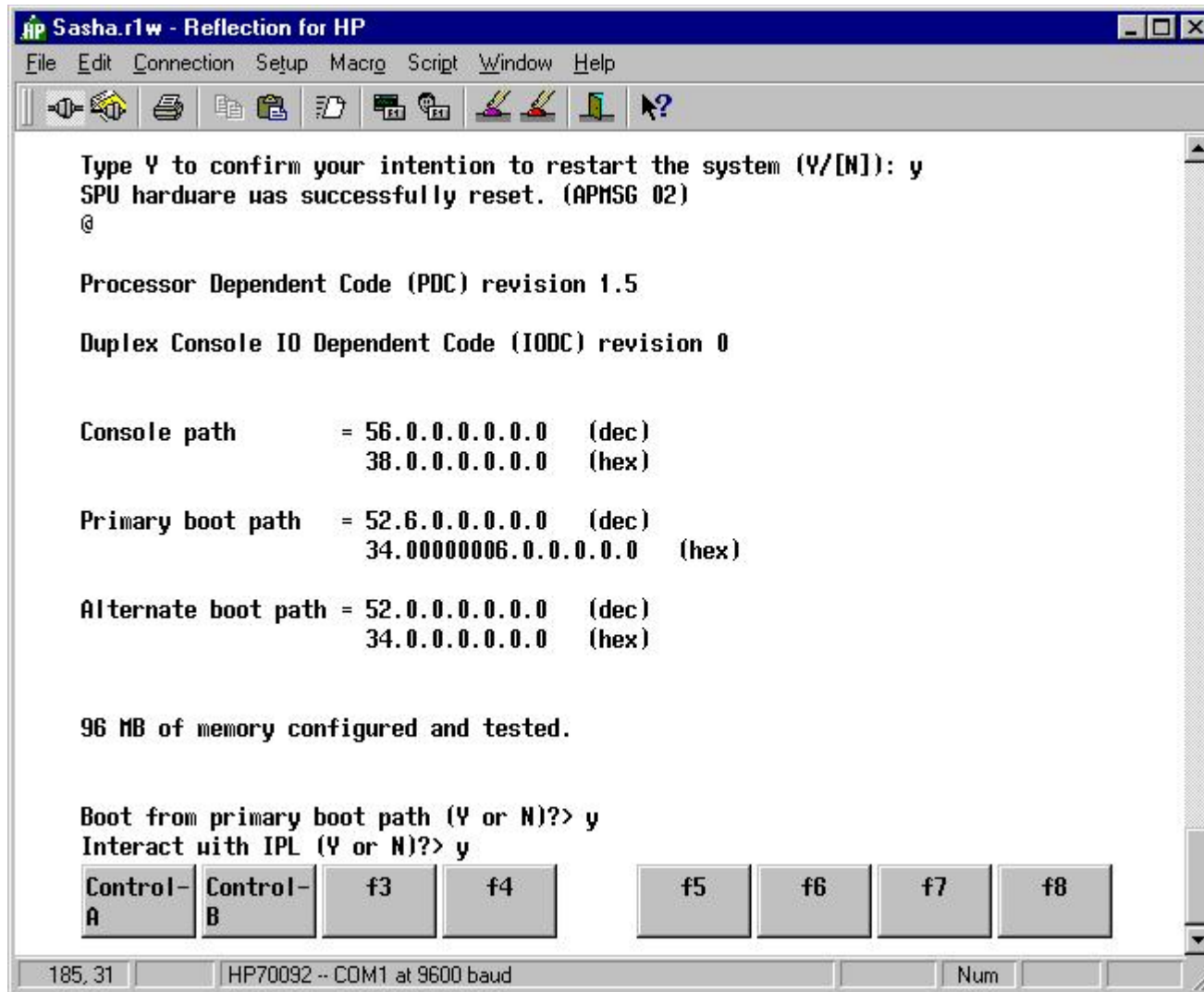
VTRL NETWORK SERVICE STOPPED.
VTR NETWORK SERVICE STOPPED.
VTL NETWORK SERVICE STOPPED.
VT NETWORK SERVICE STOPPED.
<SASHA: JPB,MANAGER.SYS,PUB> THU, JAN 11, 2001 10:47 AM </SYS/PUB>
[14]:bye
CPU=3. Connect=10229. THU, JAN 11, 2001, 10:47 AM.
10:47/#S242/44/LOGOFF ON LDEV #20.

=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)
10:48/39/Output spooler, LDEV #100: Stopped.
10:48/82/Output spooler, LDEV #2001: Stopped.
10:48/38/The Spooling system has been shutdown.
Shutdown of system processes begins. (Shut 4)
10:48/41/Predictive Support monitor is shutting down,
10:48/41/[caused by system shutdown command or PS software
10:48/41/upgrade] [8126]
Shutdown of system managers begins. (Shut 5)
Shutdown of operating system complete. (Shut 6)

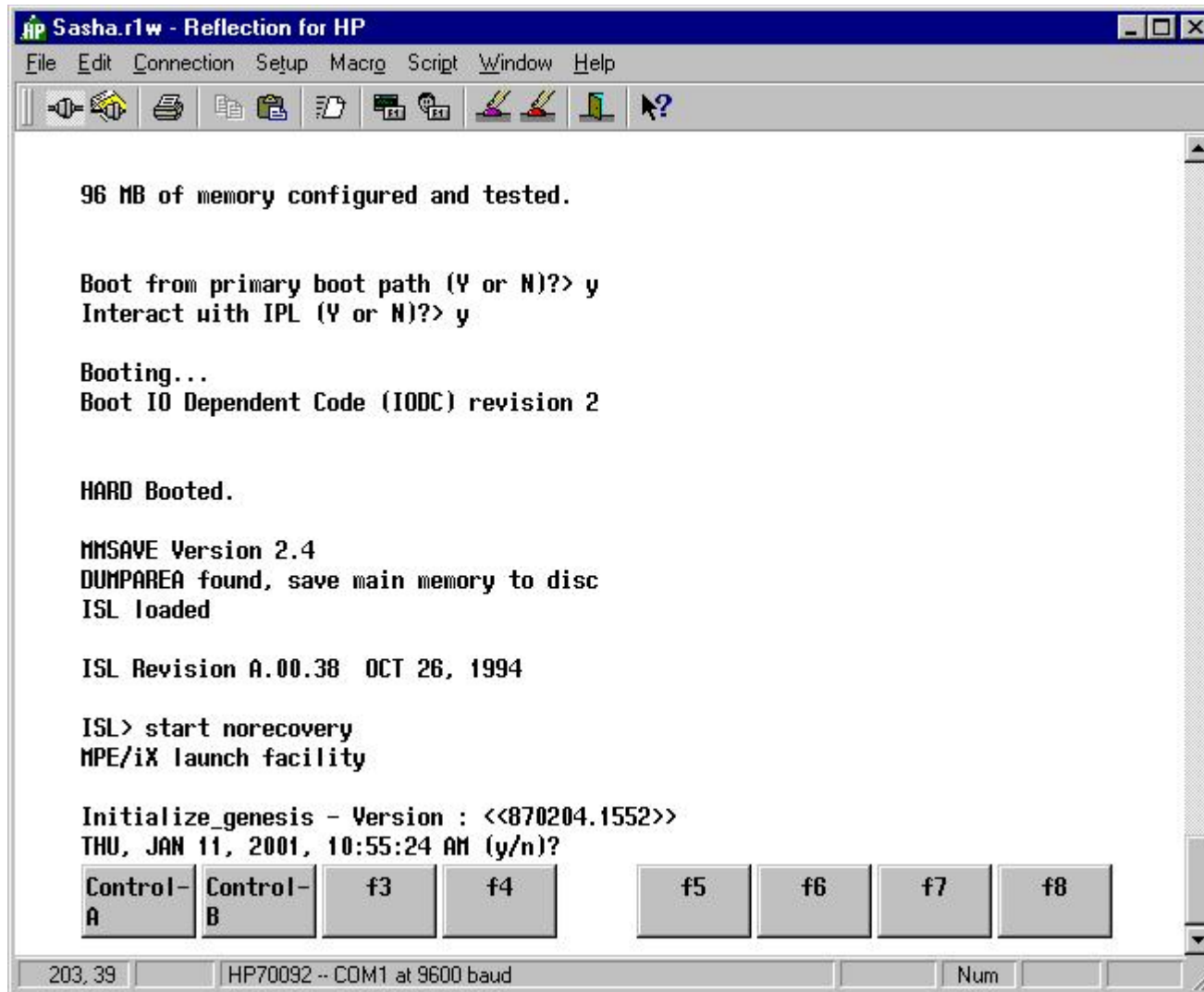
Control-A Control-B f3 f4 f5 f6 f7 f8
153,1 HP70092 -- COM1 at 9600 baud Num
```

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

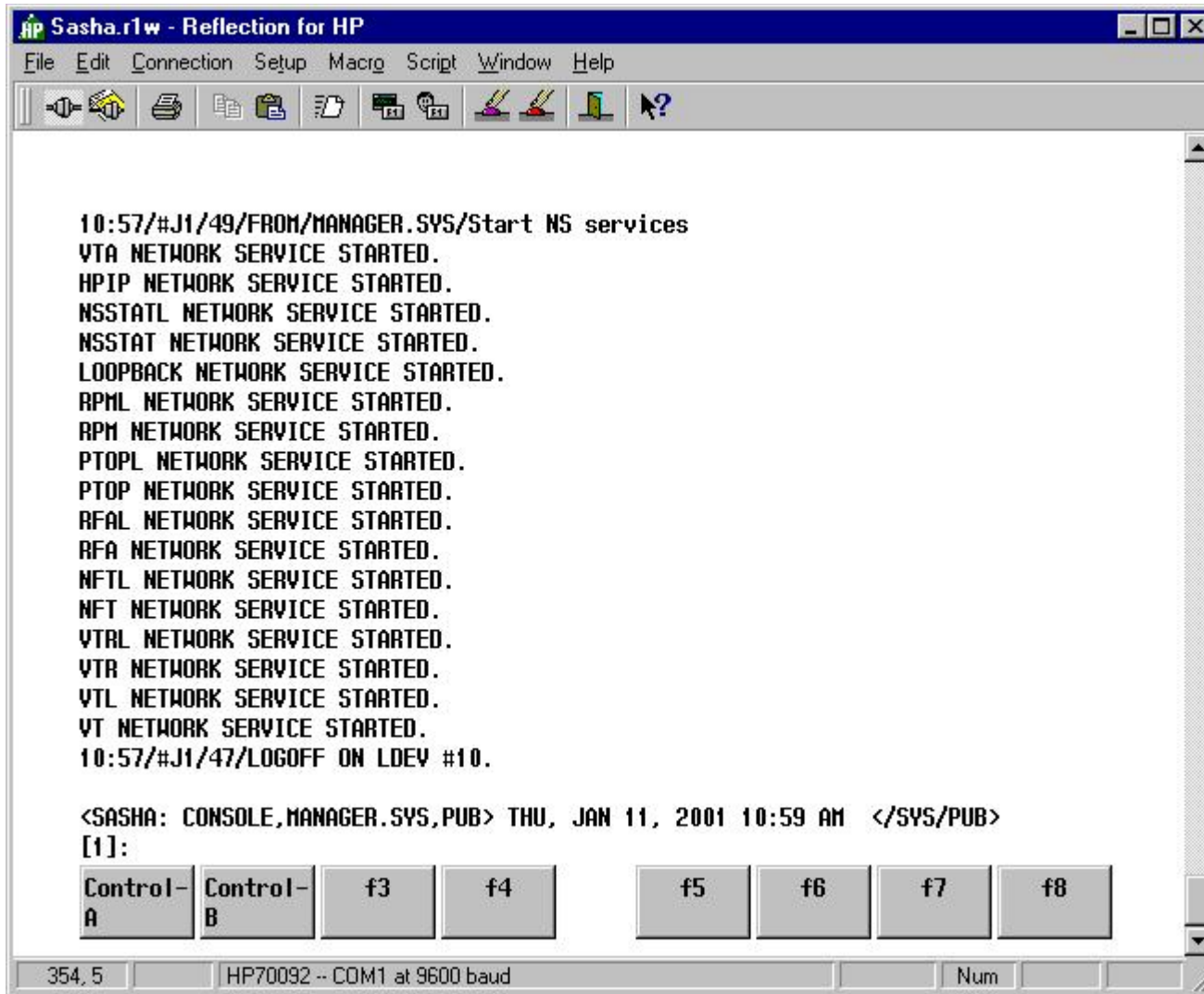
Boot



START NORECOVERY



System Startup



```
Sasha.r1w - Reflection for HP
File Edit Connection Setup Macro Script Window Help

10:57/#J1/49/FROM/MANAGER.SYS/Start NS services
VTA NETWORK SERVICE STARTED.
HPIP NETWORK SERVICE STARTED.
NSSTATL NETWORK SERVICE STARTED.
NSSTAT NETWORK SERVICE STARTED.
LOOPBACK NETWORK SERVICE STARTED.
RPLM NETWORK SERVICE STARTED.
RPM NETWORK SERVICE STARTED.
PTOPL NETWORK SERVICE STARTED.
PTOP NETWORK SERVICE STARTED.
RFAL NETWORK SERVICE STARTED.
RFA NETWORK SERVICE STARTED.
NFTL NETWORK SERVICE STARTED.
NFT NETWORK SERVICE STARTED.
VTRL NETWORK SERVICE STARTED.
VTR NETWORK SERVICE STARTED.
VTL NETWORK SERVICE STARTED.
VT NETWORK SERVICE STARTED.
10:57/#J1/47/LOGOFF ON LDEV #10.

<SASHA: CONSOLE,MANAGER.SYS,PUB> THU, JAN 11, 2001 10:59 AM </SYS/PUB>
[1]:
Control-A Control-B f3 f4 f5 f6 f7 f8
354, 5 HP70092 -- COM1 at 9600 baud Num
```

Was the patch applied?

```
<SASHA: CONSOLE,MANAGER.SYS,PUB> THU, JAN 11, 2001 11:07 AM </SYS/PUB>
```

```
[3]:help abortproc
```

```
ABORTPROC
```

The ABORTPROC command aborts the specified process(es).
This command requires OP or SM capability.

SYNTAX

```
ABORTPROC [ [PIN=]{pinspec          }]  
           {(pinspec [,pinspec ]...)}  
           [;SYSTEM]
```

KEYWORDS: PARMS, OPERATION, EXAMPLE

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

```
<SASHA: CONSOLE,MANAGER.SYS,PUB> THU, JAN 11, 2001 11:00 AM </SYS/PUB>
[2]:stageman
STAGEMAN A.01.00, (C) Hewlett-Packard Co., 1995. All Rights Reserved.
STAGEMAN> status
```

```
Last booted with:      MPELX57A
Next boot will be with: MPELX57A
```

```
STAGEMAN> list
```

STAGING AREA NAME	MOD DATE	V	DESCRIPTION
MPELX57A	*^	01/11/01	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 are staged in a particular staging area.

The LIST command can be abbreviated L.

Syntax:

```
LIST [[STAGE=]stage_name] [;{NOFILES}] [;{NOPATCHES}]
                        { FILES}      { PATCHES}
```

Now let's commit this 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.

The COMMIT command cannot be abbreviated.

Syntax:

```
COMMIT [ ; { CONFIRM } ]  
        { NOCONFIRM }
```

COMMIT

```
STAGEMAN> commit
```

```
This will permanently alter your HP Stage/iX environment. Are you sure? [Y/N]y
Committed staging area "MPELX57A" 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, JAN 11, 2001 11:09 AM </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 Patch Management

(Addendum)

HP e3000 Solutions Symposium
April 5, 2002

PSIRPT (Predictive Software Inventory Report)

<SASHA: JPB,MGR.SYSADMIN,PUB> TUE, MAR 12, 2002 4:20 PM </SYSADMIN/PUB>
[13]:xeq psirpt.pred.sys

PSSWINVP B.00.02 - MPE/iX Software Inventory

MPE version being evaluated: C.65.00

Customer software handle:

Beginning evaluation of the system files.

Generating list of files installed.

Comparing to product file list.

Evaluation of the system files completed.

Beginning evaluation of the system NL modules.

Opening the NL file.

Comparing the NL modules.

Evaluation of the system NL completed.

Beginning evaluation of the system SL segments.

Generating a list of SL segments.

Sorting the SL segments.

Comparing the SL segments.

Evaluation of the system SL completed.

Beginning evaluation of the system XL modules.

Opening the XL file.

Comparing the XL modules.

Evaluation of the system XL completed.

Beginning evaluation of collected information.

Evaluating the system file and library info.

Evaluating which HP products are installed.

Evaluating the HP product dependencies.

Evaluation of the current system is completed.

Reporting SUBSYS products installed on current system.

Generating report.

The currently installed MPE version is C.65.00

The software handle is

Fully installed products:

Product#	Product Description
-----	-----
HP30041	NS XL SERVER
HP30138	TRANSACT/IX
HP30318	RPG/IX
HP30391	TURBOIMAGE/IX
HP30604	ALLBASE/NET
HP31500	COBOLII/IX
HP31501	FORTTRAN 77/IX
HP31502	HP PASCAL
HP31506	HP C/IX
HP31508	SYMBOLIC DEBUG XL
HP32100	SPL
HP32101	BASIC INTERPRETER
HP32103	BASIC COMPILER
HP32104	RPG
HP32106	PASCAL/V
HP32111	BASIC SUPPORT
HP32115	HP BUSINESS BASIC
HP32116	FORTTRAN 77/V
HP32233	COBOL II
HP32246	INFORM/V
HP32247	TRANSACT/V
HP32256	SYSTEM DICT/XL
HP32715	BUSINESS BASIC
HP35360	HP ALLBASE/BRW
HP36070	HP BRW/V
HP36374	AIF/OS
HP36387	TURBOSTORE II
HP36388	TURBOSTORE II OLB
HP36395	POSIX 1003.1
HP36397	TURBOSTORE II MO
HP36398	TURBOSTORE II OLMO
HP36431	POSIX 2 SHELL
HP36920	NS3000/XL NET SRV

HP50734 HP GLANCE/IX
HPB1940 HP EASYTIME/XL

There were 35 products detected as fully installed.

There were 0 products detected as partially installed.

PSSWINVP - MPE/iX Software Inventory Report B.00.02 03/12/02 Page 2

		Bundled Products	
Product#	Product Description	Product#	Product Description
-----	-----	-----	-----
HP30138	TRANSACT/IX	HP32247	TRANSACT/V
HP30318	RPG/IX	HP32104	RPG
HP31500	COBOLII/IX	HP32233	COBOL II
HP31501	FORTTRAN 77/IX	HP32116	FORTTRAN 77/V
HP31502	HP PASCAL	HP32106	PASCAL/V
HP32111	BASIC SUPPORT	HP32101	BASIC INTERPRETER
		HP32103	BASIC COMPILER
HP32715	BUSINESS BASIC	HP32115	HP BUSINESS BASIC
HP35360	HP ALLBASE/BRW	HP36070	HP BRW/V

There were 8 bundles detected.

UNPACKP

```
PARM SCO_ID="", PATCH_TOOL=""

setvar unpackp_vuf 'B.00.02'

if ('!SCO_ID' = '?') or (ups('!SCO_ID') = 'HELP') then
  echo UNPACKP.INSTALL.SYS  Version !unpackp_vuf
  echo
  echo DESCRIPTION: Command file to decode and unpack MPE/iX patches
  echo                  downloaded from HP ESC, and move them to the proper
  echo                  group and account for the specified patch installation
  echo                  tool.
  echo
  echo SYNTAX:          UNPACKP PATCH_ID, PATCH_TOOL
  echo
  echo   where:  PATCH_ID   is the name of the patch to be unpacked.
  echo
  echo             PATCH_TOOL is the name of installation tool that will
  echo                  be used to apply the patch; either 'AUTOPAT'
  echo                  or 'PATCHIX'. The default is 'PATCHIX'.
  echo
  echo                  Note: The patch files unpacked by this
  echo                        script will be moved to:
  echo                              PATCHXL.SYS for 'PATCHIX'
  echo                              PATCHXL.TELESUP for 'AUTOPAT'
  echo
  echo REQUIREMENTS:
  echo
  echo   1) UNPACKP must reside in the INSTALL.SYS group, and be
  echo      be executed by MANAGER.SYS.
  echo
  echo   2) The patch name given when invoking the UNPACKP command
  echo      file must be a valid MPE/iX patch id and version (for
  echo      example 'MPEHXB0A') and must exist in INSTALL.SYS.
  return
endif

setvar unpackp_jcw fatal

# Unpackp has to be executed under MANAGER.SYS,INSTALL because it
# does some across account activities which require SM capability.
if (HPGROUP <> 'INSTALL') or (HPACCOUNT <> 'SYS') or &
```

```

    (HPUSER <> 'MANAGER') then
    echo ERROR: UNPACKP must be run by MANAGER.SYS from INSTALL.SYS.
    return
endif

if '!SCO_ID' = '' then
    echo ERROR: Missing patch ID parameter.
    echo Syntax: UNPACKP patch_id [,patch_tool]
    return
endif

# Allow the patch ID to be either 1) MPEKXH0B or 2) ./mpekxh0b (case sensitive)
if lft('!SCO_ID', 1) = '/' then
    echo ERROR: Invalid patch ID parameter.
    return
elseif lft('!SCO_ID', 2) = './' then
    if pos('/', '!SCO_ID', 2) <> 0 then
        echo ERROR: Invalid patch ID parameter.
        return
    else
        setvar unpackp_sco_id ups(basename('!SCO_ID'))
        # Case sensitive:
        setvar unpackp_sco_fname '!SCO_ID'
    endif
else
    setvar unpackp_sco_id ups(lft(ltrim('!SCO_ID'),8))
    # Shift to uppercase (so frombyte will find it)
    setvar unpackp_sco_fname ups('!SCO_ID')
endif

# Make sure the patch file is where it should be.
if not(finfo('!unpackp_sco_fname','exists')) then
    echo ERROR: The patch file "!unpackp_sco_fname" does not exist.
    return
endif

#
# Determine which patch installation tool to use
#
setvar patch_tool_parm ups(ltrim(rtrim('!PATCH_TOOL')))
if patch_tool_parm = 'AUTOPAT' then
    setvar patch_tool_parm 'AUTOPAT'
elseif (patch_tool_parm = 'PATCHIX') or (patch_tool_parm = '') then
    setvar patch_tool_parm 'PATCHIX'
else
    echo ERROR: Invalid patch tool parameter "!patch_tool_parm".

```



```

    echo      Parm must be AUTOPAT, PATCHIX, or blank.
    return
endif

# Output the copyright and disclosure information.
echo
echo      * * * * *
echo
echo NOTICE: Hewlett-Packard makes no warranty of any kind with regard to the
echo information provided via HP ESC, including but not limited to, the
echo implied warranties of merchantability and fitness for a particular purpose.
echo
echo Hewlett-Packard shall not be liable for errors contained within
echo HP ESC or for incidental or consequential damages in connection with
echo the furnishing or use of the information.
echo
echo Customer is hereby granted the right to use the information provided
echo through HP ESC. No right, title, or interest in the information
echo contained in and provided through HP ESC is granted to the
echo Customer.
echo
echo Any HP or third party software or information provided through HP ESC
echo is copyrighted. All rights reserved. Reproduction, adaptation
echo or translation without prior written permission from HP is prohibited,
echo except as allowed under the copyright laws and except that Customer may
echo produce a single human readable copy of the data. Customer shall not
echo transfer, sell or in any manner commercially exploit HP ESC or the
echo data contained in it. In no event may Customer remove or obscure copyright
echo notices contained in HP ESC and the information provided through HP ESC.
echo
echo Copyright Hewlett-Packard Company 1995"
echo
echo      * * * * *
echo

echo The patch ID (SCO number) is  !unpackp_sco_id
echo The Patch Tool is             !patch_tool_parm

setvar unpackp_oldcont hpautocont
setvar hpautocont true
setvar unpackp_frombyte_name 'UUE' + rhs(unpackp_sco_id,5)
purge !unpackp_frombyte_name > $null

# The patch file needs to be converted from byte stream format
# to MPE (non-bytestream) format before using STORE to unpackage it.
echo

```

```

echo Step 1: Converting the file from bytestream to MPE format.
echo Note that this may take several minutes on a large patch.
echo
setvar hpcierr 0
setvar cjcw 0
xeq frombyte.hpbin.sys &
    '-b !unpackp_sco_fname !unpackp_frombyte_name'
if (hpcierr <> 0) or (cjcw <> 0) then
    echo
    echo ERROR: The conversion of the file !unpackp_sco_fname failed.
    echo      cjcw = !cjcw hpcierr = !hpcierr
    setvar hpautocont unpackp_oldcont
    return
endif

# Insure the group and account exists for the appropriate installation tool.
if patch_tool_parm = 'AUTOPAT' then
    if not finfo('/TELESUP', 'exists') then
        echo Account TELESUP does not exist; creating account now
        echo
        setvar hpcierr 0
        newacct telesup,mgr;cap=!hpacctcapf
        if hpcierr <> 0 then
            echo ERROR: Could not create the TELESUP account.
            setvar hpautocont unpackp_oldcont
            return
        endif
    endif
    if not finfo('/TELESUP/PATCHXL','exists') then
        echo Group PATCHXL.TELESUP does not exist; creating group now
        echo
        setvar hpcierr 0
        newgroup patchxl.telesup;cap=ia,ba,ph,ds,mr
        if hpcierr <> 0 then
            echo ERROR: Could not create the PATCHXL.TELESUP group.
            setvar hpautocont unpackp_oldcont
            return
        endif
    endif
endif

setvar unpackp_store_parm 'group=patchxl;account=telesup;creator=mgr'

else

    # PATCHIX case
    if not finfo('/SYS/PATCHXL','exists') then

```

```

    echo Group PATCHXL.SYS does not exist; creating group now.
    echo
    setvar hpcierr 0
    newgroup patchxl.sys;cap=ia,ba
    if hpcierr <> 0 then
        echo ERROR: Could not create the PATCHXL.SYS group.
        setvar hpautocont unpackp_oldcont
        return
    endif
endif

    setvar unpackp_store_parm 'group=patchxl;account=sys;creator=manager'

endif

#
# Call STORE to unpackage the patch file back into individual
# patch files in the original staging group and account.
#
echo
echo Step 2: Using STORE/RESTORE to unpack the file...
echo
file unpkstor=!unpackp_frombyte_name;dev=disc
restore *unpkstor;@.@@;show;!unpackp_store_parm
if storejcw <> 0 then
    echo
    echo Error restoring the filesset. STOREJCW = !storejcw
    setvar hpautocont unpackp_oldcont
    return
endif

echo
echo Patch !unpackp_sco_id has been unpacked successfully.

purge !unpackp_frombyte_name > $null

reset unpkstor
deletevar unpackp_@
setvar unpackp_jcw ok

# ----- End of UNPACKP -----

```

Running Patchman for Information Purposes

```
<SASHA: JPB,MGR.SYSADMIN,PUB> TUE, MAR 12, 2002 8:28 PM </SYSADMIN/PUB>
[2]:sh
```

```
#####
```

```
                MPE/iX Shell and Utilities (A.50.02)
    COPYRIGHT (c) Hewlett-Packard Company 1992, All Rights Reserved.
```

```
#####
```

```
[129] /SYSADMIN/PUB $ patchman-2_2.sh
PATCHMAN v2.2 [C.65.00 sasha SERIES 927LX] Tue Mar 12 20:37:11 PST 2002
```

Downloading the obsolete patch list and the current patch catalog...

File Transfer Protocol [A0010A02] (C) Hewlett-Packard Co. 1990

ftp> exitonerror

ExitOnError mode on. (FTPINFO 33)

ftp> open us-ffs.external.hp.com

220-

220-Welcome to the IT Resource Center ftp server

220-----

220-

220-You are user 17, 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-

220- support_feedback@us-ffs.external.hp.com

220-

220 hpcc933 FTP server (HP ASL ftpd, version(322)) ready.

Connected to us-ffs.external.hp.com (192.151.11.75). (FTPINFO 40)

ftp> user anonymous MGR.SYSADMIN@sasha.mpe

331 Guest login ok, send your complete e-mail address as password.

230 Guest login ok, access restrictions apply.

Remote system type is UNIX

```

ftp> hash
Hash mark printing on (1024 bytes/hash mark).
ftp> byte
200 Type set to L (byte size 8).
ftp> get /export/patches/mpe-ix_obs_patch_list /tmp/patchman.19726417.sup.raw
200 PORT command successful.
150 Opening BINARY mode data connection for /export/patches/mpe-ix_obs_patch_lis
t (31173 bytes).
#####
226 Transfer complete.
31173 bytes received in 0.45 seconds (67.20 Kbytes/sec)
ftp> get /mpe-ix_patches/catalog /tmp/patchman.19726417.cat.raw
200 PORT command successful.
150 Opening BINARY mode data connection for /mpe-ix_patches/catalog (87760 bytes
).
#####
226 Transfer complete.
87760 bytes received in 0.55 seconds (155.82 Kbytes/sec)
ftp> cd /mpe-ix_patches/c.65.00
250 CWD command successful.
ftp> ls . /tmp/patchman.19726417.dir.raw
200 PORT command successful.
150 Opening ASCII mode data connection for file list.
##
226 Transfer complete.
2519 bytes received in 0.10 seconds (25.36 Kbytes/sec)
ftp> close
221 Goodbye.
ftp> :/SYS/HPBIN/TOUCH /tmp/patchman.19726417.ftpok
ftp> exit

```

Download completed!

```

Generating the local installed patch list from HPSWINFO...done!
Generating the MPE VUF current patch catalog...done!
Generating the MPE VUF obsolete patch list...done!
Generating the local superseded patch list...done!
Checking for HP patch server inconsistencies...

```

CAUTION! The patch server ftp://us-ffs.external.hp.com/mpe-ix_patches/catalog catalog file refers to patches that are missing from the patch server download directory:

Patch	Sectors	Description
-------	---------	-------------

ODILXG0A	70384	Online Diagnostic fix for MPE/iX 6.5 Diagnostic
----------	-------	---

The preceding patches may be bad; I have removed them from my working copy of the catalog since there's nothing to download anyway. If you have already installed any of the preceding patches or anything that they supersede, those patches will now show up in the unrecognized patch list if I see them in your /SYS/PUB/HPSWINFO file.

=====> PATCHES ALREADY INSTALLED (LISTED IN /SYS/PUB/HPSWINFO)

The following installed patches have been marked bad. If a superseding patch is available, it will be listed in the superseding report:

NONE

The following installed patches have been superseded:

NONE

The following installed patches have been superseded by patches which are unavailable for download (you will have to ask the HPRC to send you these unavailable patches on tape):

NONE

The following installed patches are unrecognized, because they were either alpha, beta, or omitted from the MPE VUF catalog for some weird reason:

NONE

=====> PATCHES YOU MIGHT WANT TO INSTALL FROM <ftp://us-ffs.external.hp.com>

The following new superseding patches are available for download:

NONE

The following new FOS/HPSWINFO-based patches are available for download:

Patch	Sectors	Description
-------	---------	-------------

ATCLXV7A	7552	Image/SQL internal error error 137,0,0,0 (DBERR 13553) vers
BBRLXJ1A	20352	Business BASIC dec. library fix for uninit err parm in BB_D
DTCFDP1A	23232	6.5 DTC Host Downloads, equivalent to ODMFDG9, OV DTCMGR A1
DTSFDW4A	24832	DTSFDP0/6.5 shows wrong version numbers for DTF and X25FMT.
FTPGD92A	6848	GENERAL FIXES FOR FTP FOR 6.5 RELEASE (H Patch).
FWSLXT5B	3216	Provide rev. 3728 firmware file for 28696A FW SCSI device a
INTFDX3A	9952	General Fixes for Intersrv Products on MPE/iX 6.5 (B)
LNKLXG1A	3616	Cumulative patch: miscellaneous linkedit fixes.
MPEKX92D	1840	AIFSCPUT 3058 doesn't work if no AIF logging, and not VV.UU
MPEKXD3B	1552	SYSGEN Portion of HAFO (MPEKXD2, MPEKXD3, MPEKXD4, MPELX95)
MPEKXE9C	1728	Y2K problem with AIFSWSWIDEGET item 8512
MPEKXK4E	1344	SA615 During MPEX Copy From One Volume Set To Another
MPEKXR9C	1536	SPOOLF;PRINT of unlinked spoolfiles fails with MPEKXG0 inst
MPEKXV3B	1792	Create MPE-named file via non-MPE named symlink--no filenam
MPEKXX0D	4032	Session hang in break mode when VTSERVER is impeded by Brea
MPEKXY5C	1344	SA773 or Files left accessed, when using NFS/iX product
MPELX24C	1344	SA1482 while processing an AIF port interrupt (replaces MPE
MPELX33C	4000	UPS Monitor/iX support for PowerTrust II UPS, powerfail mes
MPELX34C	672	Fix 128 Byte Boundry Corner Case With TLB Causing Boot Fail
MPELX37B	1616	Addresses Multiple Problems With TAR Utility
MPELX42C	3744	Y2K leap year problem w/CM HPYEAR/HPMONTH/etc. vars/JCWs, a
MPELX47B	5600	dat/debug fixes. hp_version, rm_semaphore fix and fs_mvt_
MPELX63A	2288	Definition of AIFACCTPUT in AIFINTR file causes problems wi
MPELX67B	1552	HPDATECONVERT does not accept a valid output date parameter
MPELX68A	1328	Calling NM CKERROR causes Data Memory Protection Trap
MPELX69A	1376	HPMC or hang during boot after installing patches on 64MB m
MPELX82C	1488	System hang caused by AIFDEVICEGET call requesting item #13
MPELX88A	1552	AIFFILELPUT item 4101 does not recognize largefiles.
MPELX89F	1392	Debug does not always handle breakpoints correctly
MPELX93B	1552	OS changes for SwitchOver product.
MPELXB2A	1344	CI COPY command without target filename can abort job/sessi
MPELXB3A	1472	Dispatcher causes system hang when NEWWG command is execute
MPELXC2B	1392	Fixes for Multiple Jobqueues: SA773, System Hang & incorrec
MPELXC4B	1328	MEMLOGD daemon not running on 6.5 systems w/between 3.75GB
MPELXD0B	1328	HANG - Loop in xm_get_gufd_active_transactions
MPELXG9A	1312	SVIPCUTL aborts with LDRERR 472
MPELXH7A	704	System hang when using AIF Ports or AIF:PE on systems with
MPELXH9A	1344	SA1048 from sampler_handler when running performance collec
MPELXJ3C	1456	AIFCHANGELOGON error handling fixes
MPELXJ6B	1344	SA 615 SS143 Trying to deallocate a PLFD locked by some oth
MPELXK3B	1344	JOBQFILE corrupt after START RECOVERY results in system han
MPELXL0A	944	FSCHECK Online Help Returns A *Error: Subys: 0, Info: 4. (f
MPELXL5A	16608	NEWCI command results in 'unknown command name' after MPELX
MPELXN2B	1552	FORTTRAN and Transact programs can abort when calling HPGETP

MPELXP3A	1520	BULDACCT giving CIERR 9166 and 9445 when more than 1020 dir
MPELXQ3B	1568	Update To IODFAULT.PUB.SYS To Support New Devices (APR 2001
MPELXQ4B	1344	Request change in label mgmt compile options to speed up fi
MPELXQ5B	7008	SA2216 from running out of XM copyfwd array elements during
MPELXR0A	1744	Introduce debug access to pdc and I/O space on 6.5
MPELXR8A	145264	SA1404 when SCSI driver fails to expand IO Pquad Table
MPELXT0A	1344	New patch to include MPEJXV9(5.5), MPEKXL0(6.0), and MPEKXX
MPELXT1B	8176	Network Spooler: 2 fixes for PJL syntax errors, NMS 9621
MPELXT7D	1360	SA -996 during PURGE of a CIR or RIO file
MPELXT9B	1328	Spoolfile incorrectly deleted due to no locking around DIRC
MPELXU5F	16016	SA 1144 Stack Overflow When AIF Data Structures Overwritten
MPELXU9B	6928	Old LOG40NLN.PUB.SYS config trails need to be deleted after
MPELXV8B	1360	Hangs or SA1516 caused by gufd open semaphore not being unl
MPELXW2A	1424	Job/session hangs due to gdpd semaphore not being released
MPELXY4A	16384	TurboStore slower backup with SW compression after MPELXH3+
MPEMX27B	1424	Hang or SA1516 with MPELX41 installed.
MPEMX28C	1344	Certain escape sequences in logon error messages can hang t
MPEMX29A	5056	CATALOG changes for MPEMX28 fixes (console hang due to esca
NMCGD12A	32928	General Fixes for NMMGR on MPE/iX 6.5 (C) Patch
NRCMX20A	16816	Support tools update - fmtioerr and macros
NSTGDB1A	54320	General Fixes for NS TRANSPORT on MPE/iX 6.5 (B0) Patch
ODILXU1A	70384	Online Diagnostics fix for MPE 6.5 Diag
OSPLX96A	11808	HPMC during PSCONFGP or MEMSCANP if PDC buffer addr > 3.75G
PTDGD18A	11424	General fixes for TELNET ARPA Services on 6.5 (E Patch)
PX2LXB1B	3120	tobyte can can create huge bytestream file when TRIM (-t) u
PX2LXC0B	1856	Posix RLOG utility displays wrong dates after Dec 31, 1999.
PX2LXD4B	1376	The shell program PS.HPBIN.SYS cannot be run in batch.
QUELXP5B	13760	QUERY/iX HP32216D.03.20 Progress Reporting Plus Report Real
SMBGXL7A	110400	Session cancelled copying large file from samba share to lo
STRFDP5A	2432	GENERAL FIXES FOR STREAMS/IX ON MPE 6.5 Release (A Patch)
TIXMX12B	32752	RDBA and Omnidex together won't work on C.09.02.
TRRLXP7B	6928	Transact/iX Run Time 30138A.07.02 Long Banners and Title Op
VPLLX49C	52336	VPLUS with ARB enabled returns year '00' as 'A0' and '10' a

TOTAL: 820976

The following new other patches are available for download:

Patch	Sectors	Description
APCFDX6B	8960	6.5 Apache 1.3.9 with DSO capability
APPFDW6A	21040	System abort 1457 during APPC start on 6.5 MPE/iX
ARMLXY7C	54368	ARMSERVER Alignment Trap
BROLXY0B	2832	HPBrowse/iX 36384A.00.06 HFS filename and Byte-Stream file

BT1GD35A	864	General Fixes for NIO 100BT Link (B5427BA) on MPE/iX 6.5 (A
FDDFDP7A	5072	General Fixes for FDDI Driver on on MPE/iX 6.5 (A0 Patch)
GLALXX8E	10656	GlancePlus/iX B1787B.nn.13 JSMAIN garbage data fix plus Pri
GLFLXT3B	10992	GlancePlus/iX Trial Demo Patch X.nn.11 for Systems WITHOUT
INFKXH6C	4112	INFORM 32246A.11.04 fix Parent/child Item not in any data s
ITOED07B	992	Provide 5.5 functionality in XL.PUB.SYS for 6.0 & 6.5 HP300
JDBLXU8B	4304	JDBC should be able to handle translations UNICODE<->ROMAN8
MCMFDW3A	1280	General Fixes for MCM on MPE/iX 6.5
NSRGD68A	2912	General fixes for Domain Name Service Routines on 6.5 (A Pa
NSSGD21A	24224	General Fixes for NS SERVICES on MPE/iX 6.5 (02 PATCH)
NSXGD05A	1264	General Fixes for NS X.25 on MPE/iX 6.5 (A0 Patch)
ODBLXE8B	30448	ODBCLink/SE version F.00.00 for 6.0 and 6.5
SCOLXR6B	22736	PCS/Scope/iX B1794B.13.53 Extract from MPE/iX Extracted Fil
SNAFDR5A	10336	Discard Frames if incoming MAC address, SSAP and DSAP not c
SNMFDY7A	6400	General Fixes for MPE/iX 6.5 SNMP (B Patch)
SPTMX04B	11280	SPT/iX B1776A/B1777A A.07.02 AIF/PE hang fix
SQLLXD8C	83760	ALLBASE/SQL A.G3.22 for MPE/iX 6.0, 6.5 and 7.0
TRXLXP8B	14608	Transact/iX Compiler 30138A.07.02 Intrinsic Calls and IPfil
TSMGD57A	3536	Standalone TERMDSM issues non-fatal errors if run in batch
VG1GD38A	864	General Fixes for NIO 100VG Link (B5426BA) on MPE/iX 6.5 (A
VGCFDU7A	2032	General Fixes for NIO VG-BT DRIVER on MPE/iX 6.5 (A0) Patch
VGFGD41A	10048	General Fixes for NIO VG-BT FORMATTER on MPE/iX 6.5 (B0) Pa
XPMLXD9A	31504	HP SureStore E RAID Manager XP (RM) UTILITIES.

TOTAL: 381424

PATCHMAN v2.2 [C.65.00 sasha SERIES 927LX] Tue Mar 12 20:37:11 PST 2002
[130] /SYSADMIN/PUB \$

Get and unpack patch MPELX57A via Patchman

```
<SASHA: JPB,MANAGER.SYS,INSTALL> WED, DEC 27, 2000 12:39 PM </SYS/INSTALL>
[5]:xeq sh.hpbin.sys -L
```

```
#####
```

```
                MPE/iX Shell and Utilities (A.50.02)
    COPYRIGHT (c) Hewlett-Packard Company 1992, All Rights Reserved.
```

```
#####
```

```
shell/iX> ./patchman-2_2.sh -d
PATCHMAN v2.2 [C.60.01 sasha SERIES 927LX] Wed Dec 27 12:40:35 PST 2000
```

Downloading the obsolete patch list and the current patch catalog...

File Transfer Protocol [A0009B02] (C) Hewlett-Packard Co. 1990

ftp> exitonerror

ExitOnError mode on. (FTPINFO 33)

ftp> open us-ffs.external.hp.com

220-

220-Welcome to the IT Resource Center ftp server

220-----

220-

220-You are user 20, 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-

220- support_feedback@us-ffs.external.hp.com

220-

220 hpcc933 FTP server (HP ASL ftpd, version(300)) ready.

Connected to us-ffs.external.hp.com (192.151.11.75). (FTPINFO 40)

ftp> user anonymous MANAGER.SYS@sasha.mpe

331 Guest login ok, send your complete e-mail address as password.

230 Guest login ok, access restrictions apply.

Remote system type is UNIX.

```

ftp> hash
Hash mark printing on (1024 bytes/hash mark).
ftp> byte
200 Type set to L (byte size 8).
ftp> get /export/patches/mpe-ix_obs_patch_list /tmp/patchman.3145780.sup.raw
200 PORT command successful.
150 Opening BINARY mode data connection for /export/patches/mpe-ix_obs_patch_lis
t (24905 bytes).
#####
226 Transfer complete.
24905 bytes received in 0.30 seconds (80.53 Kbytes/sec)
ftp> get /mpe-ix_patches/catalog /tmp/patchman.3145780.cat.raw
200 PORT command successful.
150 Opening BINARY mode data connection for /mpe-ix_patches/catalog (65805 bytes
).
#####
226 Transfer complete.
65805 bytes received in 0.84 seconds (76.59 Kbytes/sec)
ftp> cd /mpe-ix_patches/c.60.00
250 CWD command successful.
ftp> ls . /tmp/patchman.3145780.dir.raw
200 PORT command successful.
150 Opening ASCII mode data connection for file list.
#
226 Transfer complete.
2049 bytes received in 0.28 seconds (7.20 Kbytes/sec)
ftp> close
221 Goodbye.
ftp> :/SYS/HPBIN/TOUCH /tmp/patchman.3145780.ftpok
ftp> exit

```

Download completed!

```

Generating the local installed patch list from HPSWINFO...done!
Generating the MPE VUF current patch catalog...done!
Generating the MPE VUF obsolete patch list...done!
Generating the local superseded patch list...done!
Checking for HP patch server inconsistencies...

```

CAUTION! The patch server ftp://us-ffs.external.hp.com/mpe-ix_patches/catalog catalog file refers to patches that are missing from the patch server download directory:

Patch	Sectors	Description
10624	0	version E.57.08
13840	0	HP32216D.03.17 Expanded Limits and Find by Record
14608	0	Compiler 30318A.07.00 Btree/FINDMODE & Open Enh

The preceding patches may be bad; I have removed them from my working copy of the catalog since there's nothing to download anyway. If you have already installed any of the preceding patches or anything that they supersede, those patches will now show up in the unrecognized patch list if I see them in your /SYS/PUB/HPSWINFO file.

CAUTION! The patch server ftp://us-ffs.external.hp.com/mpe-ix_patches/c.60.00/download directory contains patches that are omitted from the patch server catalog file:

```
Patch
-----
ODBKXU2B
QUELXA4B
TRXKXV0B
```

You will not be able to download any of the preceding patches with this script.

CAUTION! The ftp://us-ffs.external.hp.com/export/patches/mpe-ix_obs_patch_list obsolete patch file contains superseding patches that are omitted from the patch server catalog file:

```
Patch
-----
ATCKXP2A
FTPFD3A
FTPFD3A
MPEJXP1E
NMSFDQ9A
PTDFDT3A
PTDFDT4A
TIXKXP6A
```

The preceding patches are most likely tape-only patches that must be mailed from the HPRC, but this is only a guess.

=====> PATCHES ALREADY INSTALLED (LISTED IN /SYS/PUB/HPSWINFO)

The following installed patches have been marked bad. If a superseding patch is available, it will be listed in the superseding report:

NONE

The following installed patches have been superseded:

Patch	Description
ARMKXW5C	Initial release of ARM (AutoRAID Manager) software
ATCKXP2C	Big performance degradation when user update IMAGE/SQL to G2 version.
BBRKXU7B	Business BASIC library cumulative patch.
LNKKXV4B	Linkedit link command creates XL list string with length too long
MPEKXE2B	hpdircdir does not support the 'threads' environment.
MPEKXF7C	Network Spooler fixes for serial spooler compatibility and PJI syntax
MPEKXJ9D	SA1798 caused by incorrectly mapped START image page during boot.
MPEKXU3F	File System and Driver Changes To Support SureStore E Disk Array 12H
MPEKXW7B	HPDATECONVERT leap year fix for type 3 & HPFMTCALENDAR error handling
MPEKXX9A	SA614 when duplicating a file descriptor with pathname > 89 chars
MPELX30B	IODFAULT Changes For Additional 99 Disk Drives
NRCKXK9B	NARC Support Tools-FIX FOR FASTER PROCESSORS AND SYSINFO BUGS
NSTFDJ5A	General Fixes for NS TRANSPORT on MPE/iX 6.0 (A2) Patch
ODBKXU2B	ODBCLink/SE version E.57.08
ODIKXK2C	This patch will fix the diagnostic tools.
PX2KXP5A	Support tar -h Command in Posix Shell
QUELX02B	QUERY/iX 32216D/N.03.15 Max records now 16,700,000 & Bounds Vio. Fix
SQLKXQ3B	ALLBASE/SQL A.G3.04 with ODBCLINK/SE E.56.12
TIXKXX8B	If both TPI and TPS enabled, app may got 'DBOPEN count exceed 127'.

The following installed patches have been superseded by patches which are unavailable for download (you will have to ask the HPRC to send you these unavailable patches on tape):

Installed Unavail	Installed Patch Description
FTPFDP3A	GENERAL FIXES FOR FTP FOR 6.0 PUSH (C Patch).
NMSFDD0A	GENERAL FIXES FOR NMS/IX ON 6.0 (A Patch)
PTDFDD5A	General fixes for TELNET ARPA Services on 6.0 ("B" Patch)

The following installed patches are unrecognized, because they were either alpha, beta, or omitted from the MPE VUF catalog for some weird reason:

NONE

=====> PATCHES YOU MIGHT WANT TO INSTALL FROM ftp://us-ffs.external.hp.com

The following new superseding patches are available for download:

Patch	Sectors	Description
ARMLX35B	53776	Address Excessive Logging Problem with ARM Utilities
ATCKXY1B	7344	Locking strategy changed to place optimal no. of locks
BBRLXE7B	20640	BB_DBL_TO_DEC gets Pascal string error.
LNKLXG1B	4016	Cumulative patch: miscellaneous linkedit fixes.
MPEKXV3A	2080	Create MPE-named file via non-MPE named symlink--no filename
MPEKXX4B	1360	SA -200 when rmdir used w/symlink, MPEJXV9(5.5)/MPEKXL0(6.0
MPELX34A	704	Fix 128 Byte Boundry Corner Case With TLB Causing Boot Fail
MPELX37A	1616	Addresses Multiple Problems With TAR Utility
MPELX39B	8128	Network Spooler prints header/data endless loop w/ PJL_SUPP
MPELX57A	56896	Store/fullldb fails to store Allbase archive logs; restore d
MPELX59B	1472	Add Support For Latest (May 2000) Disk Drives
MPELXC6A	188240	With MPELX44 an invalid pointer can occur if AIF:PE's enabl
NRCLXA8A	23760	Support tools update. kschkix, fmtioerr
NSTFDT6A	64064	General Fixes for NS TRANSPORT on MPE/iX 6.0 (A6) Patch
ODBLX27B	10928	ODBCLink/SE version E.58.03
ODILX12A	27088	Online Diagnostic fix for XL library.
QUELXD6B	13840	QUERY/iX HP32216D.03.17 Expanded Limits and Find by Record
SQL LX50B	83696	ALLBASE/SQL A.G3.15 for MPE/iX 5.5, 6.0 and 6.5
TIX LX74B	18080	Security problem in DBUTIL.

TOTAL:	587728	

Mark all(Y), none(N), or select(S) individual patches for download? [N/y/s] s

Please select which individual patches you want to download; enter
Y to mark the patch for download, N to skip the patch, D to see patch
details:

Patch	Sectors	Description
ARMLX35B	53776	Address Excessive Logging Problem with ARM Utiliti ? [N/y/d] n
ATCKXY1B	7344	Locking strategy changed to place optimal no. of l ? [N/y/d] n
BBRLXE7B	20640	BB_DBL_TO_DEC gets Pascal string error. ? [N/y/d] n
LNKLXG1B	4016	Cumulative patch: miscellaneous linkedit fixes. ? [N/y/d] n
MPEKXV3A	2080	Create MPE-named file via non-MPE named symlink--n ? [N/y/d] n
MPEKXX4B	1360	SA -200 when rmdir used w/symlink, MPEJXV9(5.5)/MP ? [N/y/d] n

MPELX34A	704	Fix 128 Byte Boundry Corner Case With TLB Causing ?	[N/y/d]	n
MPELX37A	1616	Addresses Multiple Problems With TAR Utility ?	[N/y/d]	n
MPELX39B	8128	Network Spooler prints header/data endless loop w/ ?	[N/y/d]	n
MPELX57A	56896	Store/fullldb fails to store Allbase archive logs; ?	[N/y/d]	y
MPELX59B	1472	Add Support For Latest (May 2000) Disk Drives ?	[N/y/d]	
MPELXC6A	188240	With MPELX44 an invalid pointer can occur if AIF:P ?	[N/y/d]	
NRCLXA8A	23760	Support tools update. kschkix, fmtioerr ?	[N/y/d]	
NSTFDT6A	64064	General Fixes for NS TRANSPORT on MPE/iX 6.0 (A6) ?	[N/y/d]	
ODBLX27B	10928	ODBCLink/SE version E.58.03 ?	[N/y/d]	
ODILX12A	27088	Online Diagnostic fix for XL library. ?	[N/y/d]	
QUELXD6B	13840	QUERY/iX HP32216D.03.17 Expanded Limits and Find b ?	[N/y/d]	
SQLLX50B	83696	ALLBASE/SQL A.G3.15 for MPE/iX 5.5, 6.0 and 6.5 ?	[N/y/d]	
TIXLX74B	18080	Security problem in DBUTIL. ?	[N/y/d]	

The following new FOS/HPSWINFO-based patches are available for download:

Patch	Sectors	Description
INTFDP8A	688	General Fixes for Intersrv Products on MPE/iX 6.0 (A)
MPEKX43B	14928	RE/VSTORE problems with multireel parallel backups from ONL
MPEKX88C	736	SA775; bad address passed from DEVSPEC when CM stack is lar
MPEKXG6C	1792	File corruption (ASCII blanks) on page boundaries.
MPEKXJ5B	1872	Various problems with FCLOSE system log records (105/205) f
MPEKXK6B	1328	Security Monitor/iX: Y2K fixes
MPEKXN3B	1360	Completed TurboImage transaction not completely backed out
MPEKXP9B	1680	MSG file corruption when many messages in file and many ope
MPEKXQ0B	1472	Various system aborts due to corrupted NM KSAM file.
MPEKXY7D	1520	Several BULDACCT enhancements. New version is A.50.25
MPELX15B	1536	Fix for new directory deadlock introduced by MPEJX22
MPELX33B	1936	UPS Monitor/iX support for PowerTrust II UPS, powerfail mes
MPELX38B	1440	Replacement for MPEKXY0. Incorrect alias name used in EASMM
MPELX41A	1424	Data loss using GMULTI & APPEND access to fixed rec file
MPELX42B	3744	Y2K leap year problem w/CM HPYEAR/HPMONTH/etc. vars/JCWs, a
MPELX46A	2080	SA2182 after enabling ALTERCHKPTSTAT in VOLUTIL
MPELX61A	1328	SA 0 Problem With Workload Manager (MAXCPUPCT Settings)
MPELX82A	1488	System hang caused by AIFDEVICEGET call requesting item #13
MPELXA1B	2304	System hang (deadlock) during online backup during file ope
PTDFDM6A	11376	General fixes for TELNET ARPA Services on 6.0 ("E" Patch)
PTDFDQ6A	11376	General fixes for TELNET ARPA Services on 6.0 ("G" Patch)
TRRLX22B	6928	Transact/iX Run Time 30138A.07.01 Btree/FINDMODE & OPEN Enh

TOTAL:	74336	

Mark all(Y), none(N), or select(S) individual patches for download? [N/y/s] n

The following new other patches are available for download:

Patch	Sectors	Description-----
APPFDC9A	20592	APPC subsystem start error 1034 due to validation error - A
BROLX21B	2784	HPBrowse/iX 36384A.00.03 KSAMXL,Dynamic Screens,Large Files
DBPLX04B	6112	DBChangePlus/iX 36386A.02.07 \$ODDPALLOWED and DDX Cap Incre
DC1LX45B	37184	RPC fixes and rebuild of DCE product because of external th
FDDFDP6A	4704	General Fixes for FDDI Driver on on MPE/iX 6.0 (A0 Patch)
FRIKXN7C	12048	Enhancement request for new DCE RPC on MPE/iX 6.0.
ITOED07A	992	Provide 5.5 functionality in XL.PUB.SYS for 6.0 HP3000 ITO
NRJFDJ1A	9584	Logic of getting yesterday's date was failing on Jan 1 for
NSSFDA5A	26048	General Fixes for NS SERVICES on MPE/iX 6.0 (01 PATCH)
PX1KXV7G	2736	Enhancement to allow approx. 1016 concurrently open streams
RPGKXH9B	8000	RPG/iX progs compiled w/new compiler,run w/old lib always u
SDLFDH0A	1216	SA1047 from Subsys 101 in wan_sdlic_driver.calculate_length
SEALX03B	1712	HPSearch/iX 36383A.00.01 KSAMXL/64 Support plus misc. fixes
SIMFDT1A	23984	To fix the problem of double printing on IMF connected prin
SNAFDK6A	10368	For Token Ring, change length of data for IPR Frame, keep h
SPTLX08B	11424	SPT/iX B1776/7A.05.17 String Overflow and other problem fix
TDPKXG2B	3648	TDP Year 2000 fixes: date problems in /catalog and banners.
TRXLX23B	14544	Transact/iX Compiler 30318A.07.01 Btree/FINDMODE & Open Enh

TOTAL:	197680	

Mark all(Y), none(N), or select(S) individual patches for download? [N/y/s] n

=====> DOWNLOADING PATCHES FROM ftp://us-ffs.external.hp.com/mpe-ix_patches
/c.60.00/

The following patches are download candidates:

Patch	Sectors	Description-----
MPELX57A	56896	Store/fulldb fails to store Allbase archive logs; restore d

TOTAL:	56896	

Mark all(Y), none(N), or select(S) individual patches for download? [N/y/s] y

56896 sectors of patches have been selected for download;
8448080 sectors of free space are available on MPEXL_SYSTEM_VOLUME_SET.

Start the download? [N/y] y

Downloading the patch utilities and the selected patches...

File Transfer Protocol [A0009B02] (C) Hewlett-Packard Co. 1990

ftp> exitonerror

ExitOnError mode on. (FTPINFO 33)

ftp> open us-ffs.external.hp.com

220-

220-Welcome to the IT Resource Center ftp server

220-----

220-

220-You are user 18, 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-

220- support_feedback@us-ffs.external.hp.com

220-

220 hpcc933 FTP server (HP ASL ftpd, version(300)) ready.

Connected to us-ffs.external.hp.com (192.151.11.75). (FTPINFO 40)

ftp> user anonymous MANAGER.SYS@sasha.mpe

331 Guest login ok, send your complete e-mail address as password.

230 Guest login ok, access restrictions apply.

Remote system type is UNIX.

ftp> hash

Hash mark printing on (1024 bytes/hash mark).

ftp> byte

200 Type set to L (byte size 8).

ftp> get /export/bin/unpackp /tmp/patchman.3145780.unpackp.raw

200 PORT command successful.

150 Opening BINARY mode data connection for /export/bin/unpackp (10974 bytes).

#####

226 Transfer complete.

10974 bytes received in 0.20 seconds (54.13 Kbytes/sec)

ftp> get /mpe-ix_patches/c.60.00/MPELX57A /SYS/INSTALL/MPELX57A;disc=2147483647

200 PORT command successful.

150 Opening BINARY mode data connection for /mpe-ix_patches/c.60.00/MPELX57A (40

38912 bytes).

```
226 Transfer complete.  
4038912 bytes received in 35.89 seconds (109.90 Kbytes/sec)  
ftp> close  
221 Goodbye.  
ftp> :/SYS/HPBIN/TOUCH /tmp/patchman.3145780.ftpok  
ftp> exit
```

Download completed!

Preparing utilities for execution...done!

Unpacking all downloaded patches...

(Please ignore any "Internal error: waitany: unknown pid xxx" messages that you may see. This is a known bug (SR 4701250951), and is only a cosmetic issue. Patchman *is* running properly despite the presence of this error message.)

* * * * *

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* * * * *

The patch ID (SCO number) is MPELX57A
The Patch Tool is PATCHIX

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

Group PATCHXL.SYS does not exist; creating group now.

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

STORE/RESTORE VERSION C.60.07 (C) 1986 HEWLETT-PACKARD CO.

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

WED, DEC 27, 2000, 12:47 PM

WILL RESTORE 19 FILES ; NUMBER OF FILES ON MEDIA 19

FILENAME	GROUP	ACCOUNT	VOLUME	RESTRICTIONS	SECTORS	CODE	MEDIA
AUTOPAT	.PATCHXL	.SYS	DISC		:C 384		1
C00LX57A	.PATCHXL	.SYS	DISC		:C 9040		1
CATLX57A	.PATCHXL	.SYS	DISC		:C 4400		1
CICLX57A	.PATCHXL	.SYS	DISC		:C 14224		1
GENLX57A	.PATCHXL	.SYS	DISC		:C 448		1
ILOLX57A	.PATCHXL	.SYS	DISC		:C 16		1
JOBLX57A	.PATCHXL	.SYS	DISC		:C 224	NMPRG	1
L00LX57A	.PATCHXL	.SYS	DISC		:C 2288	NMOBJ	1
MPXLX57A	.PATCHXL	.SYS	DISC		:C 800		1
NSTLX57A	.PATCHXL	.SYS	DISC		:C 6208	NMPRG	1
R08LX57A	.PATCHXL	.SYS	DISC		:C 5120	NMXL	1
REFLX57A	.PATCHXL	.SYS	DISC		:C 96		1
RMLX57A	.PATCHXL	.SYS	DISC		:C 512		1
SHOWPTCH	.PATCHXL	.SYS	DISC		:C 416	NMPRG	1
STOLX57A	.PATCHXL	.SYS	DISC		:C 1232		1
U00LX57A	.PATCHXL	.SYS	DISC		:C 112	USL	1
UALLX57A	.PATCHXL	.SYS	DISC		:C 80	USL	1
UUILX57A	.PATCHXL	.SYS	DISC		:C 96	USL	1
VSTLX57A	.PATCHXL	.SYS	DISC		:C 832		1

FILES RESTORED : 19

Patch MPXLX57A has been unpacked successfully.

Unpacking completed!

./patchman.sh 1059: /bin/cat: Internal error: waitany: unknown pid 9437264
(Please ignore any "Internal error: waitany: unknown pid xxx" messages that you may see. This is a known bug (SR 4701250951), and is only a cosmetic issue.

Patchman *is* running properly despite the presence of this error message.)

Checking for stealth bad patches...done!

Deleting ACDs from @.PATCHXL.SYS...altsec @.patchxl.sys;delacd

Operation failed on all files in the file set. (CIERR 7329)

done!

All patches have been successfully downloaded and unpacked. You should now run Patch/iX to continue the patching process.

PATCHMAN v2.2 [C.60.01 sasha SERIES 927LX] Wed Dec 27 12:40:35 PST 2000
shell/iX>