

HP 3000 Series 9X8LX Computer Systems
Getting Started



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

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Printing History

The following table lists the printings of this document, together with the respective release dates for each edition. The software version indicates the version of the software product at the time this document was issued. Many product releases do not require changes to the document; therefore, do not expect a one-to-one correspondence between product releases and document editions.

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In This Book

This book introduces your system and provides a step by step guide on how to begin using your system. It contains the following chapters described below:

Chapter 1: Introducing Your System

Describes the two main ways of using your system.

Chapter 2: Familiarizing Yourself with Your Computer

Provides a hardware overview.

Chapter 3: Familiarizing Yourself with Your Computer Peripherals

Provides an overview of the disk drive, the Data Communications and Terminal Controller (DTC) and the Uninterruptible Power System (UPS).

Chapter 4: Getting Your System Ready for Use

Describes how to set up external disk drives, terminals and printers and how to boot up the system.

Chapter 5: Using and Maintaining the Tape Drive

Describes how to prepare a cassette for your tape drive, load and unload a cassette, how to make tapes and how to maintain and store your cassette.

Chapter 6: Getting Started with HP Easytime/iX

Describes how to start HP Easytime/iX and the basic skills that you need to use the menus effectively. This is a good chapter to start with if you are new to the HP 3000.

Chapter 7: Performing Tasks with HP Easytime/iX

Describes many of the tasks that you need to monitor and manage printing, files, jobs, sessions, console messages, and backups on your system.

Chapter 8: HP Easytime/iX Reference

Provides information about console messages and requests, error messages, function keys, wildcard character sets, and field definitions for each HP Easytime/iX screen.

Appendix A: Preparing Additional Software Products

Describes additional steps to perform before using specific products.

Appendix B: Configuring Your UPS

Describes how to configure your UPS if the original configuration is lost.

Appendix C: UPS Console Messages

Describes the messages that a user will see after a power failure.

Appendix D: Declaration of Conformity

Related Manuals

Getting Started is the second book in a set of five manuals that includes the following:

- | | |
|---|---|
| <i>Understanding Your System</i> (B3813-90001) | If you are new to computers, this is a good place to start. It provides an introduction to what computers do and how they do it. |
| <i>Getting Started</i> (B3813-90003) | Familiarizes you with your computer and computer peripherals. It also explains how to get your system ready for use, how to use and maintain your tape drives and how to communicate with your system using HP Easytime/iX. |
| <i>Task Reference</i> (B3813-90009) | Describes how to communicate with your system using MPE/iX commands. This book also includes a chapter on how to get more information on your system, a chapter on troubleshooting and a glossary. |
| <i>Commands Reference</i> (B3813-90011) | Provides a detailed explanation of each MPE/iX command. |
| <i>New Features of MPE/iX: Using the Hierarchical File System</i> (32650-90351) | Describes the changes to MPE/iX as of Release 4.5 and 5.0, which enhanced MPE/iX to make it “POSIX-compatible.” The book also describes the features of the hierarchical file system. |

Note

The MPE/iX operating system has been enhanced as of Release 4.5 and 5.0 to include additional features that include POSIX compatibility and the *hierarchical file system*. The *hierarchical file system* is tree structured and can contain files at many different levels. This organization provides a special kind of file called a **directory**. Instead of holding data, directories contain lists of files and pointers to those files.

For more information on *POSIX* and the *hierarchical file system*, refer to the book, *New Features of MPE/iX: Using the Hierarchical File System* (32650-90351), included in this documentation set. This book includes an overview of the following enhancements of MPE/iX as of Release 4.5 and 5.0:

- Open systems environment
 - Hierarchical file system (HFS)
 - Expanded file naming syntax
 - New and enhanced commands and utilities
 - MPE/iX Shell and Utilities
 - MPE/iX Developer's Kit
-

Introducing the HP 3000 Series 9X8LX

Hewlett-Packard's HP 3000 Series 9X8LX computer system for the multiuser environment combines office computing with mainframe power. The system is designed to be used in a standard office setting without the stringent environmental controls of the typical computer room. Its compact size accommodates a number of office configurations.

Typically, the system consists of the following components:

- the main computer that fits comfortably alongside a desk or table
- the system console connected to the computer for system activities
- an optional cabinet containing additional disk and tape drives for extra data storage
- the data communication and terminal controller, also called the DTC, that enables you to connect multiple terminals and printers to the system
- The external uninterruptible power system, also called the UPS, that can provide up to 15 minutes of battery backup power to the computer system.
- terminals or PCs set up on each user's desktop and connected to the DTC
- various styles of printers conveniently located for easy access by several users

Contents

1. Introducing Your System	
Your HP 3000 Series 9X8LX System	1-1
What Is HP Easytime/iX?	1-1
What Are MPE/iX Commands?	1-2
The online Help Facility	1-3
The quick reference cards	1-3
Printing Conventions for this User's Guide	1-4
2. Familiarizing Yourself With Your Computer	
Hardware Overview	2-1
To familiarize yourself with the computer	2-2
Tape Drive	2-5
Interpreting Tape Drive Indicator Status Lights	2-6
3. Familiarizing Yourself With Your Computer Peripherals	
To familiarize yourself with the console	3-1
To familiarize yourself with the external disk drive.	3-3
To familiarize yourself with the DTC 16iX (J2062A)	3-5
Front Panel Display	3-5
DTC 16iX Back View	3-6
To familiarize yourself with the UPS	3-7
UPS Front Panel	3-7
The switches and indicator lights on the UPS front panel	3-8
UPS Back View	3-10
Configuring Your UPS	3-11
UPS Console Messages	3-11

4. Getting Your System Ready for Use	
To list your system hardware	4-1
To start your system from the ISL prompt	4-2
To add external disk drives to the operating system	4-3
To remove preconfigured LDEVs from the operating system	4-5
Setting Up Your Terminals and Printers	4-9
To get your terminals and printers to communicate to the system	4-9
Rebooting the system and the DTC	4-18
Customizing Your Terminal and Printer Configuration	4-19
To change a terminal or printer port	4-20
To perform a final validation of your new configuration	4-24
Booting the System	4-26
Booting from the Primary Path	4-28
Booting from the Alternate Path	4-28
5. Using and Maintaining the Tape Drive	
Getting To Know Your Tape Drive	5-2
Ordering HP DDS Cassettes	5-2
Operating a DDS Tape Drive Using DDS Cassettes	5-3
Preparing Your Cassette	5-4
To allow a cassette to be written on	5-4
To protect data on a cassette	5-4
To load a cassette	5-5
To unload a cassette	5-6
To label a cassette	5-7
Interpreting Indicator Status Lights	5-7
Interpreting Status Signal Conditions	5-9
If you have a read-only tape	5-9
If you see a caution signal	5-9
If the humidity is high	5-9
If you have a fault warning	5-10
If You Need to Copy Data From the Tape Onto Disk	5-10
If you need to copy from the system disk onto a new tape	5-11
Handling and Storing Cassettes	5-11
Temperature considerations	5-12
Environmental and usage limits	5-13
To determine storage life of a DDS cassette	5-13

Cleaning Tape Heads and Choosing Your Cassettes	5-13
To clean the tape heads	5-14
To choose cassettes labeled DDS	5-14
To determine number of DDS cassettes needed	5-15
6. Getting Started with HP Easytime/iX	
Are You Ready?	6-2
To install HP Easytime/iX	6-2
To customize HP Easytime/iX	6-2
To enable HP Easytime/iX	6-2
To disable HP Easytime/iX	6-3
Logging On and Starting HP Easytime/iX	6-4
To log on	6-4
To start HP Easytime/iX	6-5
To exit HP Easytime/iX	6-6
To go to the MPE/iX operating system	6-6
To log off	6-6
Getting Help	6-7
To use the Help menu	6-7
To select and read a help topic	6-8
To use the help key	6-9
Using the Main Menu	6-10
To open a screen from the Main menu	6-10
To get help about Main menu items	6-10
Working with Screens	6-11
To identify the parts of a screen	6-11
Working with Menus	6-13
To open a menu	6-13
To choose a menu item	6-14
To close a menu	6-14
To understand menu conventions	6-15
Working with List Boxes	6-16
To identify a list box	6-16
To scroll in a list box	6-17
To select items in a list box	6-17
To select one or more items	6-17
To select a range of items	6-18
To select all items	6-18

To cancel all selections	6-18
Working in Dialog Boxes	6-19
To type text in a field	6-20
To correct typing errors	6-20
To select from a list in a dialog box	6-20
To choose options in a dialog box	6-21
To move in a dialog box	6-21
To close a dialog box	6-21
To cancel a dialog box	6-21
Understanding Operating Modes	6-22
To set the system administrator password	6-22
To change to system administrator mode	6-22
To change to user mode	6-23
To change the system administrator password	6-23
Practicing Basic Skills	6-24
To prepare to practice basic skills	6-24
To read a file	6-24
To print a file	6-25
To copy a file	6-26
To delete a file	6-26

7. Performing Tasks Using HP Easytime/iX

Managing Sessions	7-2
To access Session Management	7-2
To delete (abort) a session	7-4
To send messages to users	7-4
To limit the number of sessions on the system	7-5
To display a set of sessions	7-5
To reset the view	7-6
To sort a list of sessions	7-6
Managing Files	7-7
To access File Management	7-8
To print a file	7-9
To copy files	7-9
To copy one file	7-10
To copy multiple files	7-10
To copy a file from disk to tape (store)	7-11
To stop the store process	7-12

To verify files stored	7-13
To set store options	7-13
To copy a file from tape to disk (restore)	7-14
To stop the restore process	7-15
To verify files restored	7-16
To set restore options	7-16
To delete a file	7-17
To rename a file	7-17
To move files	7-18
To move one file to another group	7-18
To move multiple files to another group	7-19
To read the contents of a file	7-20
To remove MPE/iX security from a file	7-20
To add MPE/iX security to a file	7-21
To display a set of files	7-21
To reset the view	7-22
To sort a list of files	7-22
Managing Print Files	7-23
To access Print File Management	7-24
To check the status of print files	7-25
To delete a print file	7-26
To put a print file on hold	7-26
To take a print file off hold	7-26
To move a print file to the top of the queue	7-26
To read the contents of a print file	7-27
To change the number of copies of a print file	7-27
To change the printer for a print file	7-28
To stop and restart printing of a print file	7-29
To load a form	7-29
To align a form	7-30
To display a set of print files	7-30
To reset the view	7-31
To sort a list of print files	7-32
Managing Printers	7-32
To access Printer Management	7-33
To check the status of a printer	7-34
To enable a printer	7-34
To disable a printer	7-34

To set the printer outfence	7-35
To set the HP Easytime/iX printer	7-35
Managing Jobs	7-37
To access Job Management	7-38
To check the status of jobs	7-39
To start a job	7-39
To delete (abort) a job	7-40
To schedule a job	7-41
To put a job on hold	7-42
To take a job off hold	7-42
To suspend a job	7-42
To resume a suspended job	7-43
To move a job to the top of the queue	7-43
To limit the number of jobs	7-44
To set the jobfence	7-45
To display a set of jobs	7-45
To reset the view	7-46
To sort a list of jobs	7-46
Managing Backups	7-47
To access Backup Management	7-47
To design a backup schedule	7-49
To schedule backups	7-50
To cancel a scheduled backup	7-52
To perform backups	7-52
To stop the backup process	7-54
To verify backup information	7-54
To set the backup options	7-54
To set the backup device	7-55
Managing Console Messages	7-56
To access Console Management	7-56
To move between requests and messages	7-57
To reply to a request	7-58
To print messages and requests	7-59
To display a set of console messages	7-59
To reset the view	7-60
Customizing HP Easytime/iX	7-60
To start the setup program	7-61
To disable a function	7-62

To enable a function	7-63
To set backup defaults for scheduled backups	7-63
To set the default for console messages and requests	7-64
To choose a startup screen	7-65
To cancel a startup screen	7-65
To save the setup defaults	7-65
To exit the setup program	7-66
Solving Problems	7-66
To respond to print file problems	7-66
To respond to printer problems	7-67
To respond to session problems	7-67

8. HP Easytime/iX Reference

Requests and Messages from the System	8-2
To respond to requests	8-3
To respond to messages	8-5
Using the Keyboard	8-8
Cursor movement keys	8-8
Editing keys	8-9
Selection keys	8-9
Function Keys	8-10
Defining HP Easytime/iX Screens	8-12
Session Management	8-13
File Management	8-14
Print File Management	8-16
Printer Management	8-18
Job Management	8-20
Backup Management	8-22
Console Management	8-24
Specifying HP Easytime/iX Options	8-25
Set printer option	8-25
Set store options	8-26
Set restore options	8-27
Set backup device option	8-29
Set backup options	8-29
Understanding and Using Wildcard Characters	8-30

A. Preparing Additional Software Products for Use	
Setting Up Additional Software Products	A-1
Installing HP DeskManager	A-2
Installing HP ALLBASE/4GL	A-4
To install new HP ALLBASE/4GL systems	A-4
To install the HP ALLBASE/4GL environment	A-5
Installing SNA IMF/XL	A-5
Installing HP Predictive Support	A-6
Installing NewWave Office Products	A-7
To install HP Resource Sharing	A-7
To install HP Information Access	A-7
B. Configuring Your UPS	
Introducing the UPS	B-1
To configure a UPS device	B-2
To configure the first UPS after an Install	B-2
To configure a UPS connected via a DTC port	B-3
Overview of UPS Monitor/iX Software	B-5
System behavior when AC power fails	B-5
System Behavior When AC Power Returns	B-6
To enable logging of UPS activity	B-7
To review UPS activity recorded in the system log file	B-9
C. UPS Console Messages	
D. Declaration of Conformity	
Index	

Figures

2-1. Tape Drive (3.5-inch DDS)	2-5
3-1. UPS Back View	3-10
4-1. Quick DTC Configuration Screen	4-22
4-2. Initial Menu	4-26
4-3. Main Menu	4-27
5-1. HP C1503A 3.5-Inch Tape Drive Front Panel	5-1
5-2. Close the Recognition Hole to Write on a Cassette	5-4
5-3. Inserting a Cassette	5-5
5-4. Unloading a Cassette	5-6
6-1. Main Menu	6-5
6-2. Index of Help Procedures	6-8
7-1. Session Management	7-3
7-2. File Management	7-8
7-3. Print File Management	7-24
7-4. Printer Management	7-33
7-5. Job Management	7-38
7-6. Backup Management	7-48
7-7. Backup Management Screen	7-49
7-8. HP Easytime/iX Setup Screen	7-61
7-9. Actions menu	7-62
8-1. Messages and Requests	8-2
8-2. Session Management Screen	8-13
8-3. File Management Screen	8-14
8-4. Print File Management	8-16
8-5. Printer Management Screen	8-18
8-6. Job Management Screen	8-20
8-7. Backup Management Screen	8-22
8-8. Console Management Screen	8-24

Tables

2-1. HP 3.5-inch DDS Tape Drive	2-6
5-1. DDS Tape Requirements	5-3
5-2. HP 3.5-inch DDS Tape Drive	5-8

Introducing Your System

Your HP 3000 Series 9X8LX System

Your HP 3000 Series 9X8LX system is one in a family of computers renowned for reliability and performance. You can communicate with your system through a set of screens and menus called HP Easytime/iX or through a set of commands known as MPE/iX commands.

What Is HP Easytime/iX?

HP Easytime/iX is an easy-to-use program through which you can communicate with your HP 3000 computer. Based on a system of pull-down menus, HP Easytime/iX guides you with descriptive phrases through the day-to-day tasks that you need to do your job, whether that means managing system resources, starting a job, printing a report, or sending a message to another user on the system.

Whether you are the person who manages the system (in this documentation set, this role is referred to as system administrator) or someone who only uses applications on it, HP Easytime/iX provides easy methods or several tasks. The system administrator manages the system in many ways such as creating accounts and users, setting passwords, establishing schedules for backups, and replying to requests. Some of these tasks can be done through HP Easytime/iX.

For example, HP Easytime/iX screens provide ways to inform users of backup schedules, a system administration task. The screens also provide ways for all users to send messages to each other, or to the person operating the console. HP Easytime/iX helps in performing both system administration tasks and end user tasks.

Here are just some of the tasks that you can perform with HP Easytime/iX:

- print, copy, rename, delete, and store files
- review and manage files waiting to be printed
- start and delete jobs
- show and delete sessions
- send messages to other users
- review messages and reply to requests from the system
- perform full and partial backups
- access an extensive online Help Facility
- sort and display information to meet your special needs

What Are MPE/iX Commands?

All of the tasks that you can perform with HP Easytime/iX you can also perform by using one or more direct MPE/iX commands. The commands that you enter directly do not appear as a choice in a menu. You type them at a prompt on the screen and often get a message from the system showing that it received your instructions.

The online Help Facility

In addition to your documentation, MPE/iX provides an extensive online Help Facility that includes a description of every MPE/iX command, its parameters, and an example of its use.

The quick reference cards

HP Easytime/iX Quick Reference

This card provides a brief reference for important skills and tasks.

MPE/iX Day-to-Day Tasks

This quick reference for MPE/iX guides you in finding the commands that you might use most often.

Printing Conventions for this User's Guide

This convention

italic text

underlined text

computer text

Shaded

Key

Means this

A book title, emphasized text, or text that you must supply, such as the name of a file.

Text that you type exactly as shown. For example, type

:SHOWME

Text that appears on the computer screen.

Represents a push button or function key label, such as **Field Help**.

Indicates a key on your keyboard, such as **Return**.

The descriptions of MPE/iX commands, which use conventional MPE/iX syntax, require more detailed conventions. Look in the book, *Commands Reference - HP 3000 Series 9X8LX* (B3813-90011) for these.

2

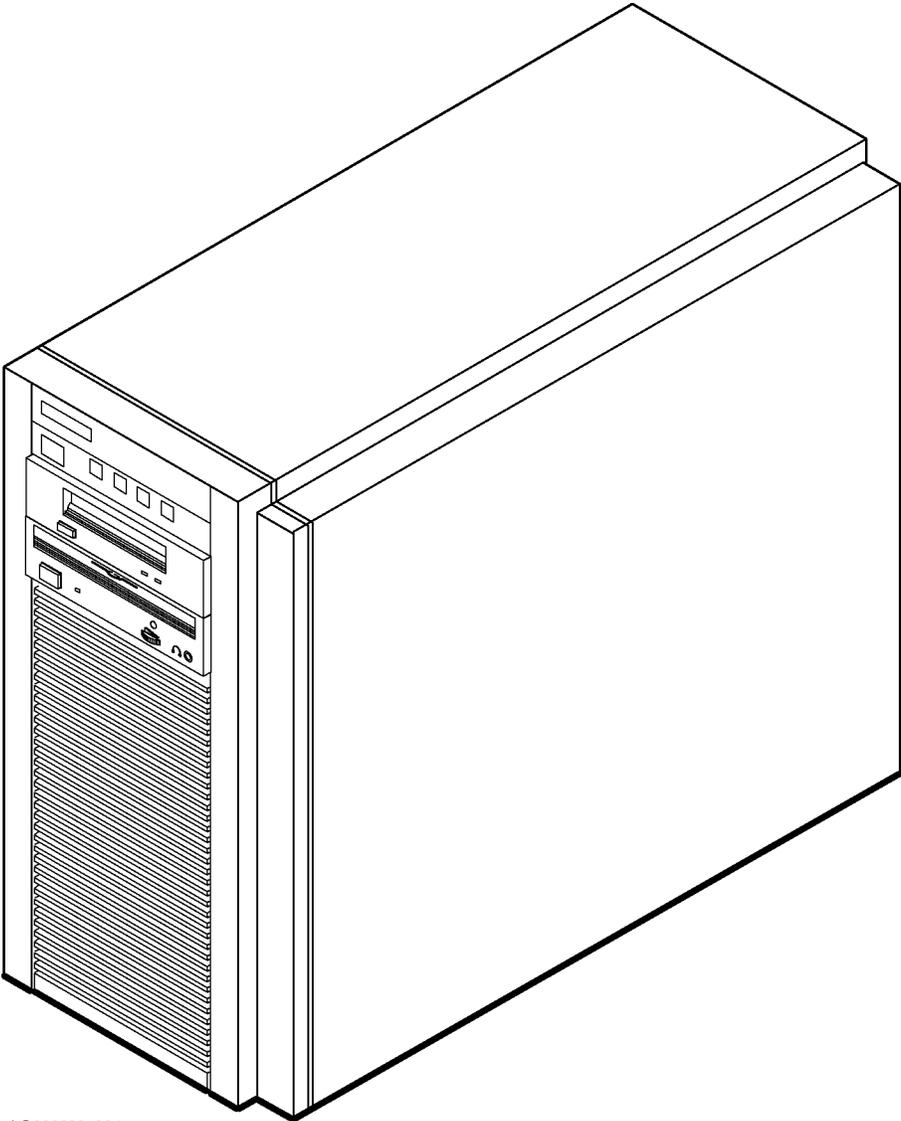
Familiarizing Yourself With Your Computer

Hardware Overview

Hewlett-Packard's HP 3000 Series 9X8LX computer systems for the multiuser environment combines office computing with mainframe power. Typically, the system consists of the following components:

- the main computer that fits comfortably alongside a desk or table
- the external uninterruptible power system, also called UPS, that can provide up to 15 minutes of battery backup power to the computer system.
- the system console used primarily by the system manager to perform system related tasks
- the data communication and terminal controller, also called DTC16iX (J2062A), that enables you to connect multiple terminals and printers to the system.
- an optional cabinet containing additional disks and tape drives
- various styles of printers conveniently located for easy access by several users
- terminals or PCs set up on each user's desktop and connected to the DTC

To familiarize yourself with the computer

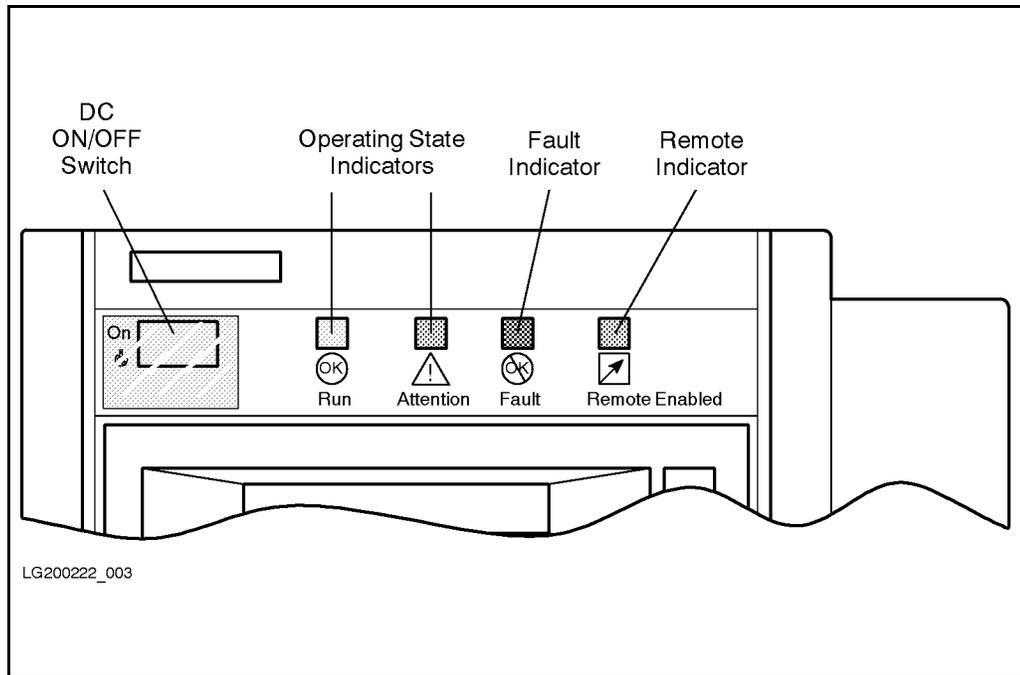


LG200222_004

The Computer

2-2 Familiarizing Yourself With Your Computer

You should take some time to study the front of the computer. The following illustration shows the front panel of the computer.



Computer Front Panel

The front of the computer. All of the switches and indicators on the computer are located along the top, in the front of the computer as shown in the figure above.

ON/OFF switch: Controls the DC power (*not* the AC power from the wall outlet) for the computer, the internal disk drive, and internal tape drive. Once the computer has started, you should turn this off only as part of the shutdown procedure.

Caution The **OFF** part of the front panel switch only disconnects the DC power from the inside of the computer cabinet. AC voltage is still present at the computer power supply. The AC power can be removed only by unplugging the power cord.

Run: (Operating State Indicator). This green light indicates that the computer is running normally. It can work in conjunction with the attention light.

Attention: (Operating State Indicator). When the yellow indicator light is on something other than normal operation is occurring, but no fault has occurred. For example, testing, initializing or system shutdown.

Fault: This orange light indicates that a fault exists in the computer.

Remote Enabled: When this yellow light is on, it indicates that remote access through a modem port is enabled, allowing outside access to the computer. This is useful if remote support is desired. When this light is off, the remote access is disabled or denied.

Tape Drive

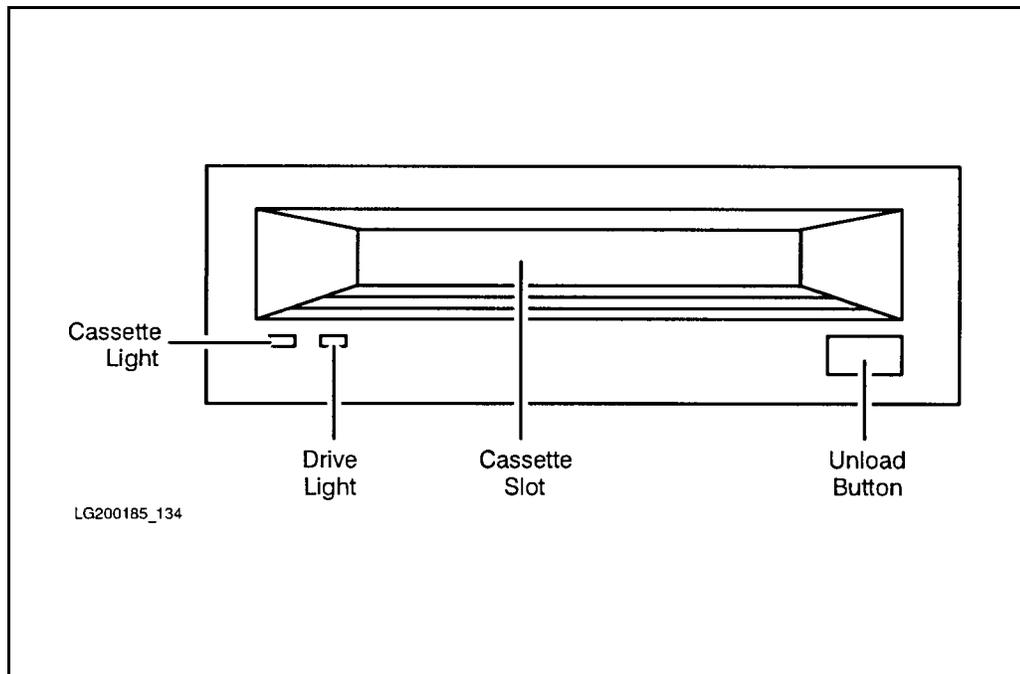


Figure 2-1. Tape Drive (3.5-inch DDS)

Cassette Light and **Drive Light**: These lights indicate the states of the tape drive. See the Interpreting Tape Drive Indicator Status Lights section at the end of this chapter.

Cassette Slot: Here you insert and retrieve the DDS tapes needed for storing information onto tapes.

Cassette Unload Button: This button stops any tape operation, rewinds the tape and ejects the cassette from the tape drive.

Interpreting Tape Drive Indicator Status Lights

The various status states that you see displayed are shown in the following table.

Table 2-1. HP 3.5-inch DDS Tape Drive

Cassette Light	Drive Light	Condition
No Cassette States		
Off	Off	No cassette loaded, or power is off.
Flash Yellow	Flash Yellow	Self-test in progress.
On Green	Flash Green	No cassette; tape drive is active.
Write Enable States		
On Green	On Green	Cassette loaded; tape drive online.
On Green	Flash Green	Cassette loaded; tape drive active.
Pulse Green	Pulse Green	Loading, unloading, or ejecting cassette.
On Green	Off	Tape drive offline.
Write Protect States		
On Yellow	On Green	Read-only cassette loaded; tape drive online.
On Yellow	Flash Green	Read-only cassette loaded; tape drive active.
Pulse Yellow	Pulse Green	Loading, unloading, or ejecting cassette.
On Yellow	Off	Tape drive offline.
Error States		
On Green	Pulse Green/Yellow	Caution ¹ (media warning).
On Yellow	On Yellow	Moisture detected, ² or no termination resistors.
Pulse Yellow	On Yellow	Fault ³ .

¹ This occurs during writes where an excessive number of read-after-write errors occur and persists until the cassette is unloaded.

² The termination resistor problem occur only at power-on time, and the tape drive appears to have *hung* during self-test.

³ Indicates a failure of the DDS field replaceable unit.

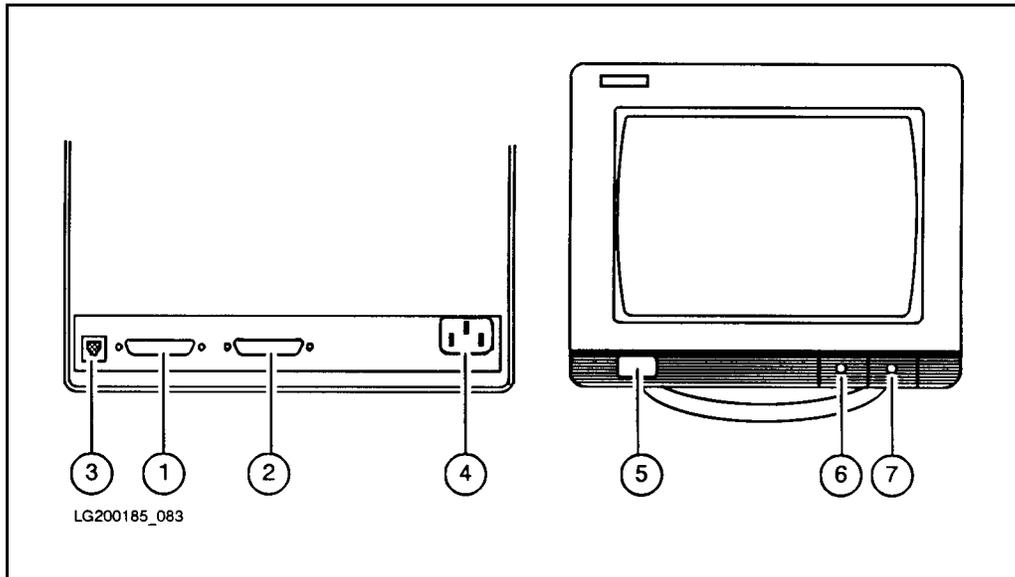
2-6 Familiarizing Yourself With Your Computer

3

Familiarizing Yourself With Your Computer Peripherals

To familiarize yourself with the console

The console is an ordinary terminal that has a special purpose. You can locate the switches, adjusting knobs, and connectors of the console in the following illustration.



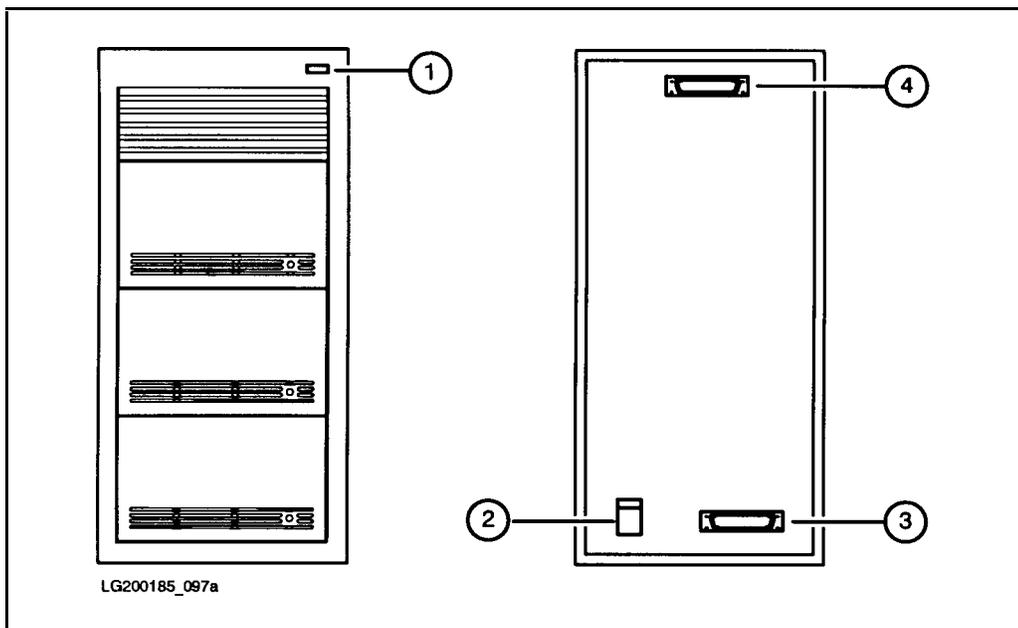
Computer Console Back and Front Views

1. port 1, datacomm connector to the computer (back)
2. port 2, printer connector (back, not used for this computer system)
3. keyboard cable connector (back)
4. power cord connector (back)
5. power ON/OFF switch (front)
6. brightness control (front)
7. contrast control (front)

3-2 Familiarizing Yourself With Your Computer Peripherals

To familiarize yourself with the external disk drive.

The external disk or disks, depending on how many you ordered, come mounted in a disk cabinet. To familiarize yourself with the external disk cabinet the following illustration shows the location of the switches, indicators, and connectors for the disk cabinet (also known as a disk drive cabinet).



Disk Drive Cabinet Front and Back View

- | | |
|--|---------------------------------|
| 1. power on indicator (front) | 3. bottom SCSI connector (back) |
| 2. power receptacle and ON/OFF switch (back) | 4. top SCSI connector (back) |

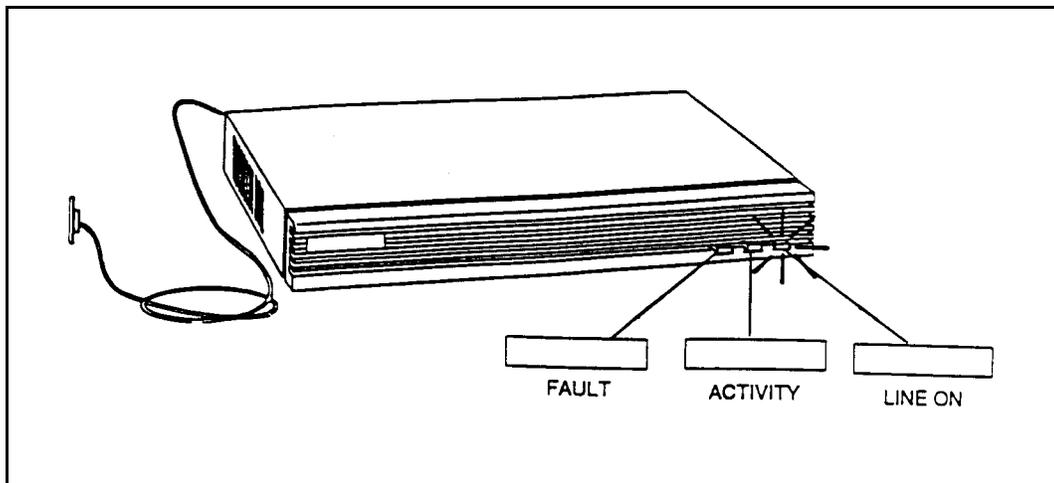
The figure above shows an external disk cabinet containing three disk drives. To determine the number of disk drives in your external disk cabinet, count the indicator lights (located on the right side of each disk drive).

3-4 Familiarizing Yourself With Your Computer Peripherals

To familiarize yourself with the DTC 16iX (J2062A)

As a part of your new computer, you received at least one box containing a Data Communications and Terminal Controller (DTC). The DTC 16iX allows terminals, PCs, and printers to use the computer and be used by the computer.

Front Panel Display



DTC 16iX Front Panel

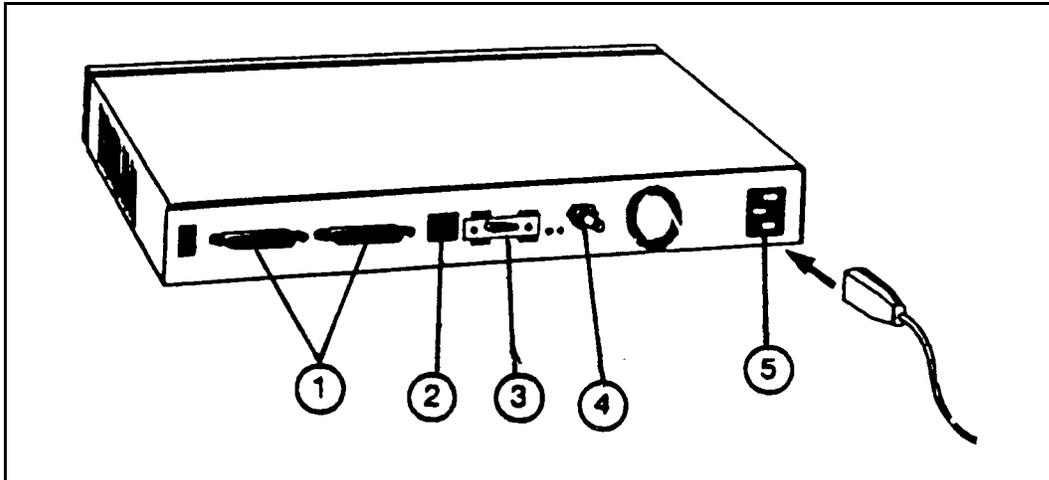
FAULT only active when there is a problem.

ACTIVITY a fixed light when the DTC 16iX is fully operational and running without a problem. A flashing light indicates software uploaded, download or a self-test in progress.

LINE ON stays lit when the power is on.

Refer the manual that accompanies the DTC 16iX for more details on hardware operation.

DTC 16iX Back View



DTC 16iX Back View

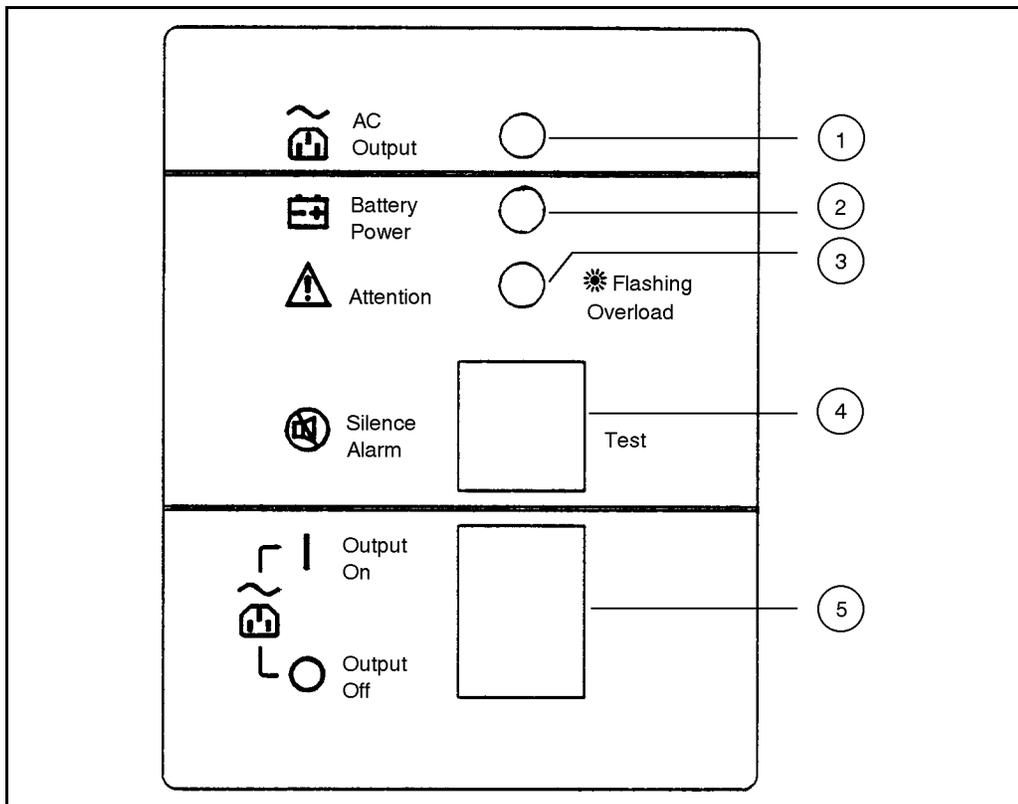
- | | |
|------------------------------|--------------------------|
| 1. Junction Panel Connectors | 4. ThinLAN Connection |
| 2. Diagnostics port | 5. Power Cord Connection |
| 3. AUI Port | |

3-6 Familiarizing Yourself With Your Computer Peripherals

To familiarize yourself with the UPS

The uninterruptible power system (UPS for short), provides up to 15 minutes of battery backup for your system processor.

UPS Front Panel



UPS Front Panel

The switches and indicator lights on the UPS front panel

The following table describes the switches and indicator lights on the front panel of the UPS.

- | | |
|--------------------------------|--|
| 1. AC Output | A green light—indicates that normal power (AC) is being supplied to the receptacles in the back. |
| 2. Battery Power | A yellow light—indicates the unit is supplying power during abnormal power (AC) conditions. |
| 3. Attention | <p>A yellow light—indicates unit needs attention. This indicator light, in conjunction with the audible alarm, can have several meanings:</p> <p>Light ON:</p> <ul style="list-style-type: none">■ Charger fail: the internal batteries will not charge to capacity.■ Overload shutdown: Excessive overload causes the unit to shutdown.■ System fail: the unit has failed its calibration selftest. <p>A flashing light indicates an overload condition. With too much equipment connected to the unit, the light will flash once-per-second and sound an audible alarm.</p> |
| 4. Silence Alarm/Test | A switch—if the unit is supplying power during abnormal AC conditions, an audible alarm sounds, pressing this switch silences this alarm. The TEST portion of this switch can be used to switch the unit from AC operation to battery operation under controlled conditions. |
| 5. Output On/Output Off | A switch—controls the output receptacles in the back of the unit. |

3-8 Familiarizing Yourself With Your Computer Peripherals

Audible alarm	<p>The audible alarm is located inside the unit and is used in conjunction with the Attention light and the Test switch. There are three conditions that activate the audible alarm:</p> <ol style="list-style-type: none">1. Pushing the Test switch2. AC power fail and unit switches to battery power.3. Attention light comes on. This could be for an overload condition or a low battery warning indicating two minutes until battery depletion. <p>The beep sequence for the alarm is based on a half (0.5) second interval timed at 10 seconds per sequence. For example, a one beep alarm sounds for 0.5 seconds and is off for 9.5 seconds, then repeats. A three beep alarm sounds three beeps (of 0.5 seconds on, 0.5 seconds off) then off for 7 seconds, then repeats.</p>
----------------------	--

UPS Back View

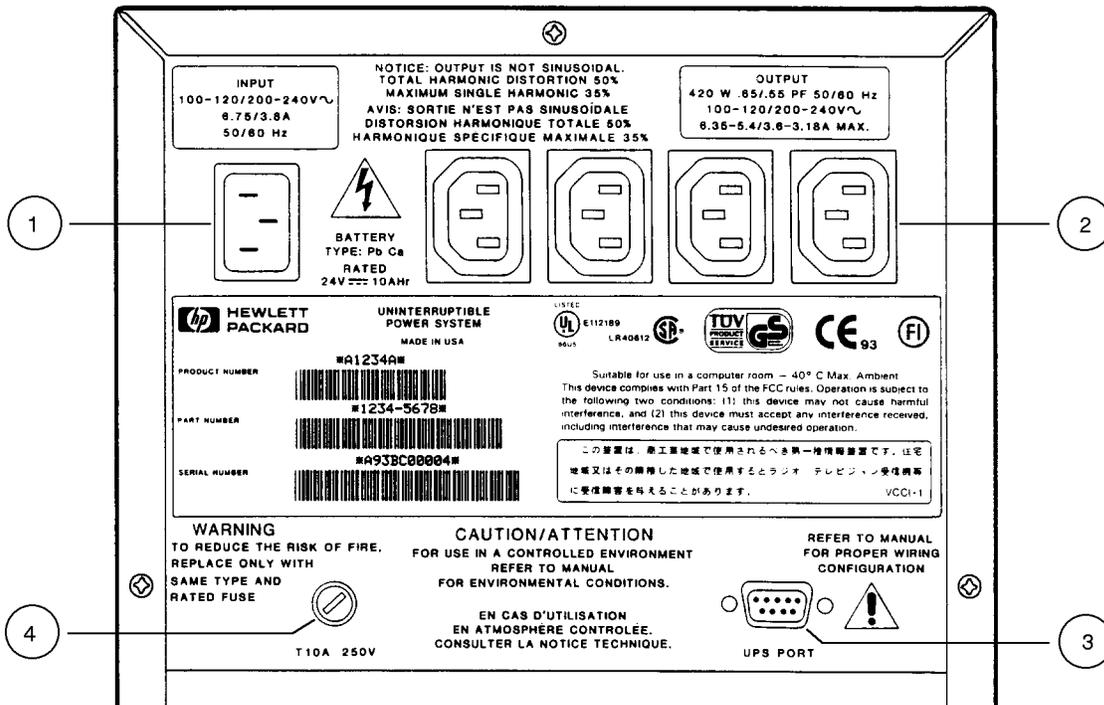


Figure 3-1. UPS Back View

- | | |
|----------------------------|--|
| 1. Input connector | There is one input receptacle to plug the unit into an appropriate wall outlet for AC power. |
| 2. Output connector | There are four output receptacles that supply AC power or battery power. |
| 3. UPS Port | A 9-pin RS-232 connector for communication to a computer. |
| 4. Safety Fuse | A time delay 10 amp safety fuse. |

3-10 Familiarizing Yourself With Your Computer Peripherals

Configuring Your UPS

In most cases, your Hewlett-Packard representative will configure your UPS when they install your system. If you should need to reconfigure, for example, if you reinstall your system, refer to Appendix B, Configuring Your UPS.

UPS Console Messages

If you lose power and the UPS is activated, you will see status messages on your console. For a detailed description of these messages, refer to Appendix C, UPS Console Messages.

4

Getting Your System Ready for Use

Note Your Hewlett-Packard representative is responsible for the installation of your HP 3000 Series 9X8LX system. The following procedures assume that your system is at the point where the fundamental operating software is starting and that your system is waiting for your response to the ISL> prompt.

To list your system hardware

Before you start your system, you may want to use the MAPPER utility. Once initiated, MAPPER displays a user interface that gives you information about your disk drives, memory, processors and co-processors and allows you to modify any information that you need to change. To run MAPPER from the ISL prompt:

1. Type the following at the ISL prompt to get an ODE prompt:

```
ISL> ODE
```

2. Type the following at the ODE prompt to get a MAPPER prompt:

```
ODE> MAPPER
```

3. At the MAPPER prompt type:

```
MAPPER> RUN
```

To exit MAPPER after you modify or accept the information displayed, you must exit out of MAPPER and ODE to get back to the ISL prompt. For example:

```
1. MAPPER> EXIT
```

2. ODE> EXIT

3. ISL>

Note To use MAPPER after you have started up your system, you must first stop all system activity and shut the system down, for example, at the system console prompt:

```
: [ [CTRL]] A  
=SHUTDOWN
```

Once the system issues the final shutdown message, transfer control by entering:

```
[ [CTRL]] B
```

If this reply does not work, initiate a hard reset by entering:

```
CM> RS
```

Then, at the ISL prompt, proceed as above (Step 1) to run MAPPER.

To start your system from the ISL prompt

1. Type the following at the ISL> prompt:

```
ISL> START NORECOVERY 
```

Note If you have not configured your HP 3000 Series 9X8LX system, use the default configuration group for your system, for example type:

```
ISL> START NORECOVERY GROUP=CONFIG9X8 
```

2. After a few minutes, you are prompted to confirm the date and time. If you do not respond within 15 seconds, the system accepts the displayed date and time by default and continues with the startup process. If the date and time

4-2 Getting Your System Ready for Use

are not correct, respond accordingly. Enter the time in 24-hour format (for example, 5:00 pm is entered as 17:00).

Note Do not be alarmed if you inadvertently miss the system's time-out to change the date and time. You will be given another opportunity to change the date and time when you reboot the system.

Your system will display some warning messages on the console telling you that unconfigured devices are attached to your system.

Do not be concerned. These messages are normal during your first boot up. They appear during the first bootup because you have not completed your final configuration.

When the system is ready for you to proceed, a system prompt appears. The typical prompt at this point is the colon (:). At this point, you are automatically logged on to the system as `OPERATOR.SYS` and can begin performing system management tasks such as configuration and creating user accounts.

To add external disk drives to the operating system

To configure your system and its peripherals, you must know what pieces of equipment make up your system's set up. You can use `MAPPER` to find out what is connected to your system. You can also ask your HP Representative or refer to your Purchase Order to help you determine this.

If you have purchased any additional external disk drives, use the `VOLUTIL` utility to define and initialize them.

Note If you have NOT purchased any additional external disk drives, skip to the next section entitled, To remove preconfigured LDEVs from your system.

1. Log on as `MANAGER.SYS`:

:HELLO MANAGER.SYS;HIPRI

2. At the system prompt, type the following to get into VOLUTIL:

: VOLUTIL

3. Use the VOLUTIL utility to identify each external disk drive separately. Your system may arrive with either one or two internal disk drives already preconfigured on your system. If you have **one** internal disk preconfigured, use 2 in place of *n* in the following example when adding an external disk drive to your configuration.

If your system has **two** preconfigured disk drives, use 3 in place of *n* when configuring the external disk drive. Note that your internal disks always count as the first disk drive and second disk drive, if the second one exists.

volutil: NEWVOL VNAME=MPEXL_SYSTEM_VOLUME_SET:MEMBER n LDEV= n

For example, to add an external disk drive to your system configuration, where there is one internal disk preconfigured, type the following:

volutil: NEWVOL VNAME=MPEXL_SYSTEM_VOLUME_SET:MEMBER2 LDEV=2

4. The system displays a screen similar to the following each time that you initialize an external disk drive. Confirm that you want to initialize each new member volume by responding to the prompt as shown:

```
volutil:NEWVOL VNAME=MPEXL_SYSTEM_VOLUME_SET:MEMBER2 LDEV=2
*Verify:Initialize new member volume
MPEXL_SYSTEM_VOLUME_SET on ldev 2 [Y/N]?y
Note:New member volume has been initialized on ldev2.
```

Using these procedure you can initialize up to three external disk drives, *if* one internal disk drive is preconfigured on your system. You can configure two external disk drives *if* your system is preconfigured with 2 internal disk drives.

4-4 Getting Your System Ready for Use

5. To return to the system prompt (:). At the `volutil:` prompt, type:

```
volutil: EXIT 
```

The system prompt should reappear.

To remove preconfigured LDEVs from the operating system

Follow these procedures only if you have *not* purchased any external disk drives.

1. At the system prompt (:), type:

```
:HELLO MANAGER.SYS;HIPRI 
```

2. To get into the SYSGEN utility, type the following:

```
:sysgen config9x8 
```

A screen similar to the following should appear:

```
SYSGEN version E.00.00: catalog version E.00.00 TUE, SEP 28, 1993,  
Copyright 1987 Hewlett-Packard Co. All Rights Reserved.
```

```
**warning** no MMCONFIG file in this configuration.  
**warning** MMCONFIG.PUB.SYS is now the MMCONFIG file
```

```
** First level command **
```

```
io          log (lo)      misc (mi)      spu (sp)  
sysfile (sy)  
  
basegroup (ba)  keep(ke)      permyes (pe)  show (sh)  
tape (ta)  
  
clear (cl)(c)  exit (ex)(e)  help (he)(h)  oclose (oc)  
redo
```

```
sysgen>
```

3. To see how your system is currently configured, type `IO` at the prompt.

```
sysgen> io 
```

A screen similar to the following should appear:

```
** IO configuration commands **
```

```
aclass (ac)      adev (ad)      apath (ap)      avol (av)  
dclass (dc)      ddev (dd)      dpath (dp)      dvol (dv)  
lclass (lc)      ldev (ld)      lpath (lp)      lvol (lv)  
maddress(ma)     mclass (mc)    mdev (md)      mpath (mp)  
mvol (mv)  
  
clear (cl)(c)    exit (ex)(e)   help (he)(h)    hold (ho)  
oclose (oc)     redo
```

4-6 Getting Your System Ready for Use

4. To get a device listing, type LD at the prompt.

```
io> ld 
```

A listing similar to the following should appear:

```
LDEV:    1  DEVNAME:      OUTDEV:    0  MODE:
  ID: HPC2474S          RSIZE:    128  DEVTYPE: D
  PATH: 56/52.6.0      MPETYPE:    4  MPESUBTYPE
  CLASS: DISC    SPOOL

LDEV:    2  DEVNAME:      OUTDEV:    0  MODE:
  ID: HPC2474S          RSIZE:    128  DEVTYPE: D
  PATH: 56/52.5.0      MPETYPE:    4  MPESUBTYPE
  CLASS: DISC    SPOOL

LDEV:    3  DEVNAME:      OUTDEV:    0  MODE:
  ID: HPC2474S          RSIZE:    128  DEVTYPE: D
  PATH: 56/52.4.0      MPETYPE:    4  MPESUBTYPE
  CLASS: DISC    SPOOL

LDEV:    4  DEVNAME:      OUTDEV:    0  MODE:
  ID: HPC2474S          RSIZE:    128  DEVTYPE: DISC
  PATH: 56/52.3.0      MPETYPE:    4  MPESUBTYPE: 2
  CLASS: DISC    SPOOL

LDEV:    6  DEVNAME:      OUTDEV:    0  MODE:
  ID: HP2567B           RSIZE:    66  DEVTYPE: LP
  PATH: 56/52.8.0      MPETYPE:    32  MPESUBTYPE: 9
  CLASS: LP        LP1

LDEV:    7  DEVNAME:      OUTDEV:    0  MODE:
  ID: HPC1503B          RSIZE:    128  DEVTYPE: TAPE
  PATH: 56/52.0.0      MPETYPE:    24  MPESUBTYPE: 7
  CLASS: TAPE    DDUMP  TAPE1
.
.
```

5. To delete LDEV 3 and LDEV 4 from the configuration, type the following at the IO> prompt:

```
io> dd 3   
io> dd 4 
```

6. To check to see if these devices have been removed type the following at the IO> prompt:

```
io> ld 
```

A screen similar to the following should appear:

```
LDEV:    1  DEVNAME:      OUTDEV:    0  MODE:  
  ID: HPC2474S          RSIZE:    128  DEVTYPE: DISC  
  PATH: 56/52.6.0      MPETYPE:     4  MPESUBTYPE: 2  
  CLASS: DISC    SPOOL  
  
LDEV:    2  DEVNAME:      OUTDEV:    0  MODE:  
  ID: HPC2474S          RSIZE:    128  DEVTYPE: DISC  
  PATH: 56/52.5.0      MPETYPE:     4  MPESUBTYPE: 2  
  CLASS: DISC    SPOOL  
  
LDEV:    6  DEVNAME:      OUTDEV:    0  MODE:  
  ID: HP2567B           RSIZE:     66  DEVTYPE: LP  
  PATH: 56/52.8.0      MPETYPE:    32  MPESUBTYPE: 9  
  CLASS: LP      LP1  
  
LDEV:    7  DEVNAME:      OUTDEV:    0  MODE:  
  ID: HPC1503B          RSIZE:    128  DEVTYPE: TAPE  
  PATH: 56/52.0.0      MPETYPE:    24  MPESUBTYPE: 7  
  CLASS: TAPE    DDUMP TAPE1  
.  
.  
.
```

7. To keep your configuration changes type the following at the IO> prompt:

```
:SYSGEN config 
```

```
io> hold 
```

```
io> exit 
```

4-8 Getting Your System Ready for Use

```
sysgen> keep config 
```

```
Purge old configuration (YES/NO)? YES 
```

```
Keep configuration anyway (YES/NO)? YES 
```

8. When you start (boot up) the system next time, you need only type the `START NORECOVERY` command at the ISL prompt.
9. To return to the system prompt (:), when the `sysgen>` prompt reappears, type:

```
sysgen> EXIT 
```

```
:
```

Setting Up Your Terminals and Printers

Terminals and printers are connected to the computer through the data communications and terminal controller (DTC). If you have a DTC 16iX, you must perform the activities described here.

To get your terminals and printers to communicate to the system

Once the appropriate cables have been connected through the DTC 16iX in your system set up, you must tell the system where to look for the DTC. This location is known as the DTC station address, and is located either on the front cover or back panel of the DTC box. You must input each LAN address that you have connected in your system set up.

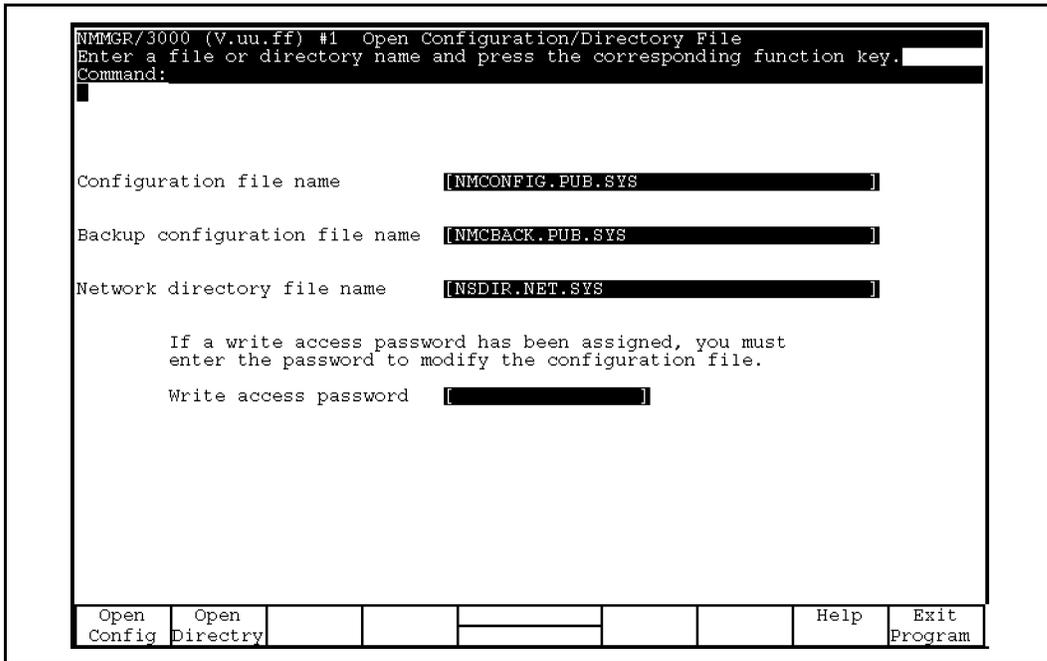
1. At the system prompt, log onto `MANAGER.SYS`:

```
:HELLO MANAGER.SYS 
```

2. Run the `NMMGR` program:

```
:NMMGR.PUB.SYS 
```

The Open Configuration/Directory File screen is displayed.



The Open Configuration/Directory Screen

3. NMCONFIG.PUB.SYS is the name required by the software. Verify that this name is displayed in the Configuration file name field.
4. Verify that the name of the correct backup configuration file is in the Backup configuration file name field. The default is NMCBACK.pub.sys.
5. Press the function key Open Config function key ((F1)).

If the configuration file you are opening does not exist, the following message appears on the message line at the top of the screen:

Config files does not exist; press Open Config again to create it.

6. Press the Open Config function key again.

The following Main screen is displayed:

4-10 Getting Your System Ready for Use

```

NMMGR/3000 (V.uu.ff) #2 Main Data: N
Type in the node name and press Save Data; then press the desired function key.
Command:

Local HP 3000 node name [ ]
                        (node.domain.organization)
Are you using OpenView DTC Manager? [N] (Y/N)
Do you have X.25 system-to-system or PAD connections? [N] (Y/N)

DTS   - Configuration of DTC device connections, links, & profiles.
NS    - Configuration of ARPA Network: Logging, LAN (802.3/Ethernet),
       NS/Token Ring (802.5), X.25 (WAN), Point-to-Point, NS/SNA.
OSI   - Configuration of OSI network:
       OSI Transport & Session (OTS) and OSI FTAM services.
IBM   - Configuration of the IBM network:
       Logging, SNA node, NRJE, RJE, IMF, DHCF, APPC, & SNADS.
UTILITY - Utility functions: output, compress, validate, & copy subtree.
File: NMCONFIG.PUB.SYS

DTS   NS   OSI   IBM   Utility   Save   Help   Prior
      Data   Screen

```

The Main Menu

To fill in the Main Menu:

1. Provide node name using the format: *nodename.domain.organization*.

Use the format *nodename.domain.organization*, where *nodename* identifies the DTC. If there is more than one DTC on the system, the *nodename* of each DTC must be unique.

Note

DTC name and *DTC node name* are two different fields. However, it is common to use the *nodename* part of the *DTC node name* as the *DTC name*, for example:

DTC name = ALPHA

DTC node name = ALPHA.ACCTG.TEKLAB

2. Reply with N to the following prompts:

Are you using OpenView DTC Manager? N

Do you have X.25 system-to-system or PAD connections? N

3. Press the **Save Data** function key (**F6**).

4. Press the **DTS** function key (**F1**).

The Host Configuration screen will appear. This screen is used to configure the Datacommunications and Terminal Subsystem (DTS) on the HP 3000. DTS defines the interaction between the system and any “asynchronous” devices such as terminals and printers.

```
NMMGR/3000 (V.uu.ff) #29 Host Configuration Data: N
Fill in the required information; then press the Save Data key.
Command:
Local HP 3000 node name NODEA.XLNET.ACCTG
Link name [DTSLINK ]
Physical path of LANIC [ ]

File: NMCONFIG.PUB.SYS

Go To Go To Tune Go To Save Help Prior
DTC Profiles Link UserPort Data Screen
```

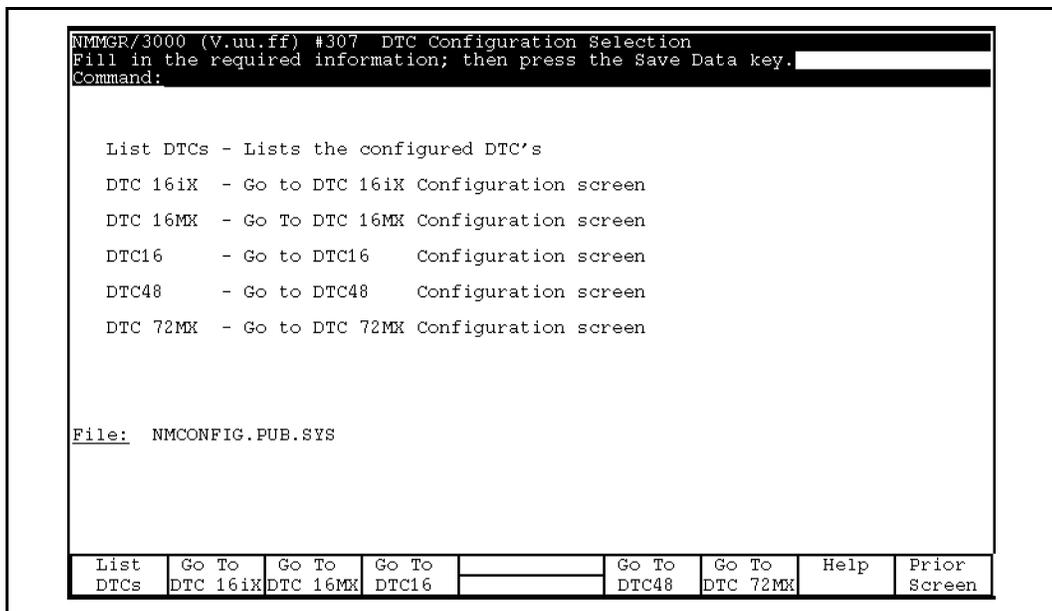
Host Configuration Screen

To fill in the Host Configuration Screen:

1. The Local HP 3000 node name field displays the name of your local node.
2. The Link name field displays DTSLINK. Use this default.

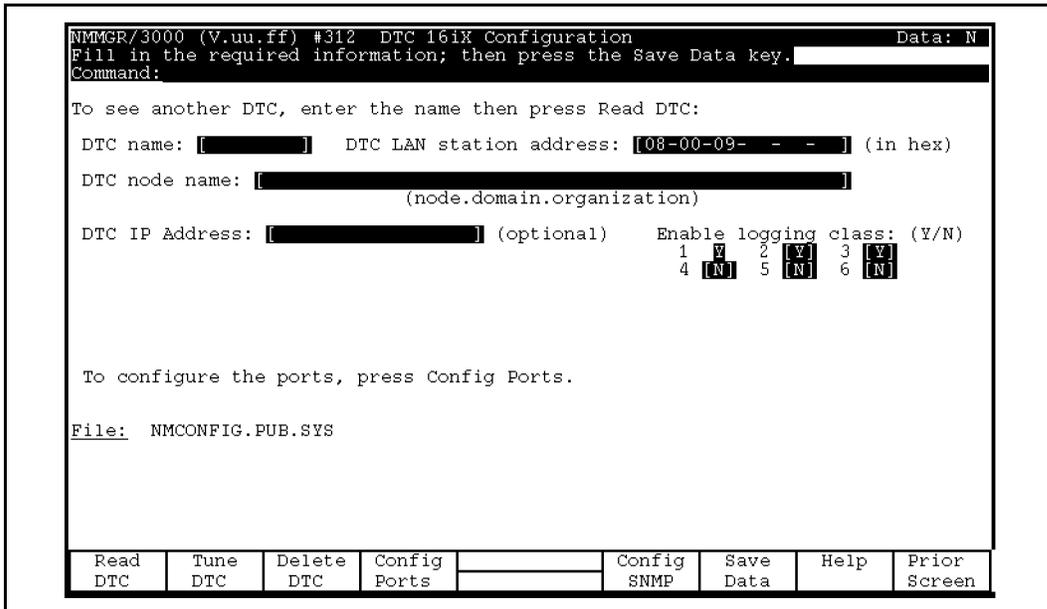
4-12 Getting Your System Ready for Use

3. In the **Physical path of LANIC** field, enter slot number (default physical path for Series 9X8LX is 60/6). Verify this number with your HP Service Representative.
4. To save the information entered on this screen press the **Save Data** function key (**F6**).
5. Press the **Go to DTC** function key (**F1**) to get the following screen:



DTC Configuration Selection Screen

6. Press the **Go To DTC 16iX** function key (**F2**) to get the following screen:



To initiate the DTC 16iX Configuration:

1. Enter the DTC's name in the "DTC name" field.

The DTC name can be up to eight alphanumeric characters, beginning with a letter. The DTC name must be unique on the system.

2. Enter the DTC's LAN address in the "DTC LAN station address" field.

The DTC address can be found on a label on the back panel of the DTC16iX box.

3. Type in the DTC's node name in the DTC node name field.

Use the format *nodename.domain.organization*, where *nodename* identifies the DTC. If there is more than one DTC on the system, the *nodename* of each DTC must be unique.

4-14 Getting Your System Ready for Use

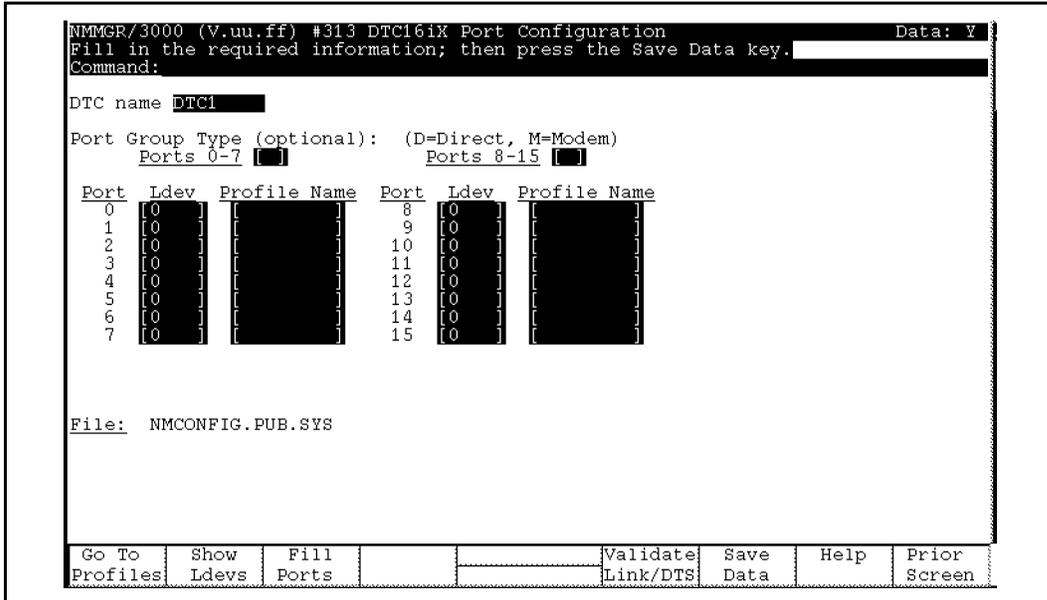
Note

DTC name and *DTC node name* are two different fields. However, it is common to use the *nodename* part of the *DTC node name* as the *DTC name*, for example:

DTC name = ALPHA

DTC node name = ALPHA.ACCTG.TEKLAB

4. (Optional) Enter an IP (internet protocol) address for the DTC, if you want this DTC to be able to respond to PING/iX requests. Otherwise, leave the **DTC IP Address** field blank.
5. Enable the event logging classes that you want. It is recommended that you enable classes 2 and 3 and disable classes 4 through 6.
6. Press **Save Data** function key (**f6**).
7. To configure the ports, press “Config Ports” function key (**f4**) to get the following screen.



DTC16iX Port Configuration

To configure the DTC16iX:

1. Verify that the DTC name is correct.
2. (Optional) Enter the port group type. The valid types are D for direct connect and M for modem connect.
3. Press **(Tab)** key to move the cursor to the first port connector.
LDEV number used for each port connector must be unique.
4. Enter the profile name for each port connector in the **Profile Name** field.
For direct terminals ports, the suggested profile to use is TR10D96. For direct printer ports, the suggested profile to use is PR18D96. For a UPS connected to a DTC port, the suggested profile is UP10D12.
5. Press the **Save Data** function key (**(F6)**).
6. Press the **Validate Link/DTS** function key (**(F6)**) to validate the information you have just supplied. The DTS validation procedure starts by displaying the following on the terminal.

4-16 Getting Your System Ready for Use

Validation of DTS/LINK started.

NOTE: In order for any TIO changes to take effect, you must reboot the system.

Validation of DTS/LINK finished.

If the configuration file encounters errors, the validation procedure prints out the total number of errors that it finds. Error messages are also displayed, explaining the problems found. If this occurs, correct the errors, press **Save Data** again and repeat the **Validate Link/DTS** process.

7. After validation of the network configuration file is complete, a series of SYSGEN messages will begin to appear ending with the following:

.
. .
.

Cross validation with SYSGEN complete.

Copying validation configuration file to backup file, please wait ***
(Press RETURN when done viewing screen contents.)

Note

The message **Cross validation with SYSGEN complete** does NOT mean that there were no configuration conflicts. There is a configuration mismatch if you see error or warning messages indicating that a conflict exists between the network configuration file and the system I/O devices configured through SYSGEN. If you see these messages, you must first correct the conflicts before validating again.

8. After successful validation and cross-validation, exit NMMGR by pressing the **(Prior Screen)** function key until you exit out, or type **EXIT** at the command line on top of any NMMGR screen and then press **(Enter)**.

Rebooting the system and the DTC

It is necessary to reboot your system for it to recognize the station address that you have provided. This procedure is needed to bring new equipment into the system's configuration file. Enter the following commands to reboot the system.

1. Shut down the system by pressing the **(Ctrl)** and **(A)** keys simultaneously and then typing the following command at the prompt (=):

= **SHUTDOWN** **(Return)**:

Note that the shutdown process could take more than 10 minutes depending on what processes were running at the time.

Several shutdown messages flash on the screen during this shutdown process. Some messages contain the phrase **SHUT nn**. The numbers at the end of the phrase do not appear in sequence and might vary with each shutdown.

2. Wait until you see the phrase **SHUT6**.
3. Reset the system by pressing the **(Ctrl)** and **(B)** keys simultaneously and then typing the following command at the prompt (**CM>**):

CM> RS **(Return)**

4. When the startup Main Menu appears, respond as follows:

Main Menu: Enter command or menu > **B0** **(Return)**

Interact with IPL (Y or N)?> **y** **(Return)**

4-18 Getting Your System Ready for Use

5. At the ISL> prompt type the following:

```
ISL> START NORECOVERY Return
```

6. At the system prompt, type SHOWME to make sure that you are logged on to MANAGER.SYS. Then type the following:

```
:SPOOLER LP;START  
:STREAMS 10  
:OUTFENCE 7
```

7. To reset the DTC, turn off the power and then turn on the power again for the DTC.

Note You should reboot the DTC *after* rebooting your HP 3000 system.

Customizing Your Terminal and Printer Configuration

terminal configuration| printer configuration|

Your system came with a preset (also known as default) terminal and printer configuration. The defaults are

- eight direct-connect terminal ports (ports 0-7), on the slot labeled “**Slot #0 - Direct Connect**”
- five modem-connect terminal ports (ports 0-4), on the slot labeled “**Slot #1 - Modem Connect**”
- one modem-connect printer port (port 5), on the slot labeled “**Slot #1 - Modem Connect**”

It is possible that the default configuration that you received with your system is not what you need to match your office setup. For instance, you may want to use the printer port for another terminal or you may want to use the terminal ports for more printers. This section tells you how to change the default configuration to match the needs of your environment.

If you have a personal computer (PC) running in terminal emulation mode and have it connected to the DTC, it is treated as a terminal by the DTC and the system.

To change a terminal or printer port

To change the current terminal or printer configuration on your system, use the Node Management Services Configuration Manager program, known as **MMMGR**.

Before you run **MMMGR**, you must change the hardware device (terminal or printer) that is connected to the particular port. For example, if you want to change a terminal port to a printer port, disconnect the terminal cable and connect the printer cable to the DTC before you run **MMMGR** to configure the software.

You can change a terminal port to a printer port or a printer port to a terminal port using the **MMMGR** program.

If you are changing a terminal port to a printer port, it is important to know what kind of printer you have. The following printers do status checking and can be specified as a “status printer” (S) when you are running **MMMGR**:

- LaserJet II
- HP 256X

All other printers should be specified as a “printer” (P) when you are running **MMMGR**.

Check the documentation that came with your printer to see if the printer is capable of status checking. If the printer is capable of status checking, specify S; otherwise specify P when you run **MMMGR**.

The default setting for terminals and printers is 9600 baud. If you want to connect a printer at a different baud rate, you must use “Advanced Config” functions in **MMMGR**. Follow these steps to change your configuration.

1. You must be in the **MANAGER.SYS** account and at the system prompt (:).
At the system prompt (:), type:

```
: HELLO MANAGER.SYS Return
```

4-20 Getting Your System Ready for Use

2. If you have followed the procedures in chapter 4, “Getting Your System Ready For Use,” but have not yet performed the first reboot of your system, type the following commands to start NMMGR:

```
: RESET NMMGRCMD (Return)
: NMMGR (Return)
```

If you have followed the manual procedures in chapter 10, “Performing Manual Tasks to Get Your System Ready For Use,” you just need to type the following command to start NMMGR:

```
: NMMGR (Return)
```

The terminal displays the **Open Configuration/Directory File** screen. You do not need to enter any information on this screen.

3. Press the **(F3)** function key to move to the **Quick Configuration** screen.

At the top of this screen, you see the title **Quick Configuration Confirmation**. This screen asks whether you are sure that you want to enter **Quick Configuration**. Since you want to do this, continue to step 4.

4. Press **(F1)** to continue to the **Quick DTC Configuration** screen. This screen allows you to change the configuration. Notice that the cursor is positioned in the field labeled **DTC number**.

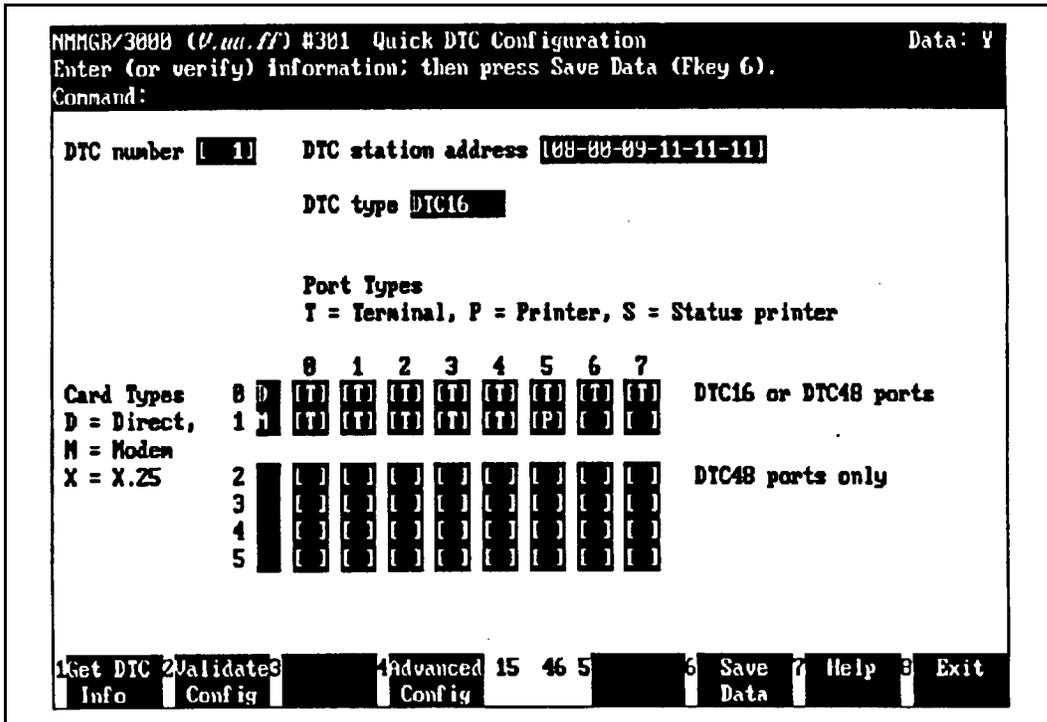


Figure 4-1. Quick DTC Configuration Screen

5. Type the number of the DTC whose configuration you want to change (for example, the DTC number would be 1, 2, or 3, depending on how many DTCs you have) in the DTC number field.
6. Press **[F1]** (the Get DTC Info softkey) to tell the computer to display the current configuration of the DTC that you specified. The configuration information is then displayed on the screen.
7. Press **[Tab]** to move the cursor to the fields that specify the ports as terminals or printers.

The numbers across the top of the fields represent the port numbers on the DTC:

- Numbers 0 through 7 are valid for the eight direct-connect ports.

4-22 Getting Your System Ready for Use

- Numbers 0 through 5 are valid for the six modem-connect ports.

The numbers going down the left side of the fields represent the number of slots for boards in the DTC. With this DTC, you only need to be concerned with slot 0 or slot 1.

You can only change values in existing fields. It is not possible to enter values in an empty field.

8. Press **(Tab)** to move to the particular port that you want to change and then type either a T, P, or S in the field, depending on whether you want the port configured as a terminal (T), a printer without status checking (P), or a printer with status checking (S). It is important that you make sure that the port you are changing on this screen matches the hardware connection that you changed on the DTC.

Make sure that the DTC number and DTC station address displayed on this screen match the DTC number that you recorded earlier during the installation process and the DTC station address on the DTC where you made the hardware changes.

If you make an error and want to exit NMMGR, press **(F8)** (the **Exit** softkey) so that you can return to the system prompt.

9. Press **(F6)** (the **Save Data** softkey) to save this change. Look for the verification message found under the title line at the top of the screen to tell you when the saving process is complete.
10. Press **(F2)** (the **Validate Config** softkey) to instruct the computer to validate the information that you have just supplied. Look for the verification message found under the title line at the top of the screen to tell you when the validation process is completed successfully. If the validation process was not completed successfully, do the following:
 - Check to make sure that you typed the information correctly.
 - Retype the information, if it was typed incorrectly.
 - Save the data again.
 - Validate the data.
11. Press **(F8)** (the **Exit** softkey) to leave NMMGR and return to the logon prompt.

To perform a final validation of your new configuration

To ensure that there are no conflicts between the information that you have supplied in `NMMGR` and the information found in the system configuration file, you must cross-validate your configuration. You will use the `SYSGEN` utility to perform this cross-validation.

1. At the system prompt (:), type the following commands to get into `SYSGEN`. Once you are in `SYSGEN`, you can perform the cross-validation.

```
: SYSGEN 
```

The computer responds by displaying the `SYSGEN` prompt:

```
sysgen>
```

2. Type the following to perform the cross-validation:

```
sysgen> io 
```

```
io> HOLD 
```

```
io> EXIT 
```

```
sysgen> KEEP CONFIG 
```

```
Keeping to GROUP CONFIG.SYS
```

```
Purge old configuration (yes/no)? YES 
```

```
Keep configuration anyway (yes/no)? YES 
```

3. To return to the system prompt (:), when the `sysgen>` prompt reappears, type:

```
sysgen> EXIT 
```

4-24 Getting Your System Ready for Use

You have now completed the cross-validation process, and your configuration should now be operational.

4. Reboot your system by entering the following at the prompt:

```
: Ctrl A  
= SHUTDOWN Return  
Ctrl B  
CM>RS Return
```

5. Respond Y once again to the primary boot questions, as you did in chapter 3, “Starting the Computer System.” Then, once the system reboots, you will see the ISL> prompt. At the prompt, type the following command:

```
ISL> START NORECOVERY Return
```

This step ensures that the new configuration that you created is used by the system instead of the default configuration. When you reboot the system and power cycle the DTC, the terminals and printers should be ready for the next step.

6. At the system prompt (:), type the following:

```
: HELLO MANAGER.SYS;HIPRI Return
```

Enter any passwords, if necessary.

7. Turn the DTC(s) off, then back on again (known as power cycling) by pressing the DTC power switch, located in the lower left corner of the front panel. If your DTC is currently off, all you need to do is turn it on.

When the console has displayed a message stating that the DTC has downloaded successfully and the green light on the DTC front panel has stopped flashing, you are ready to use your system.

If the green light on the DTC front panel continues flashing after five minutes, check the cabling and the DTC station address entered in **MMGR**.

Booting the System

At times you may need to boot the system; for example, if you change the system's configuration or need to recover the operating system and software, you might need to boot your system.

Note Keep in mind that these tasks should be performed only by system management trained personnel or a Hewlett-Packard Service Representative as these procedures may result in loss of user data if performed inappropriately.

Examples given are representative of booting up from the disk drive (Primary Boot Path) and booting up from a tape (Alternate Boot Path).

After you power on the system, a screen similar to the following appears on the console screen:

```
-----  
PDC - Processor Dependent Code - Version x.x  
(c) Copyright 1990-1993, Hewlett-Packard Company, All rights reserved  
-----  
0 Bytes of memory configured an tested.  
Primary boot path:  0/0/0/0/0/0/0.0.0.0.0.0 (dec)  
Alternate boot path: 0/0/0/0/0/0/0.0.0.0.0.0 (dec)
```

Figure 4-2. Initial Menu

This screen is followed by the Main Menu.

```
--Main Menu-----  
  
Command                Description  
-----  
B0ot [PRI|ALT|<path>]  Boot from specified path  
P0ath [PRI|ALT|CON][<path>] Display or modify a path  
SEARch [DIsplay|IPL] [<path>] Search for boot devices  
  
C0nfiguration menu    Displays or sets boot values  
I0nformation menu     Displays hardware information  
SERvice menu          Displays service commands  
  
DIsplay                Redisplay the current menu  
HElp [<menu>|<command>] Display help for a menu or command  
RESET                 Restart the system  
  
-----  
Main Menu: Enter command or menu >
```

Figure 4-3. Main Menu

Booting from the Primary Path

If you need to boot from the disk, enter the following at the Main Menu prompt:

```
Main Menu: Enter command or menu > B0   
Interact with IPL (Y or N)?> y 
```

Note Booting from the primary path is the system default, therefore when B0 is typed at the prompt, B0 PRI is assumed.

The system responds with a screen similar to the following:

```
Booting...  
Boot IO Dependent Code (IODC) revision 4  
. .  
ISL>
```

Booting from the Alternate Path

If you need to boot from tape, do the following at the Main Menu prompt:

```
Main Menu: Enter command or menu > B0 ALT   
Interact with IPL (Y or N)?> y 
```

The system responds with a screen similar to the following:

```
Booting...  
Boot IO Dependent Code (IODC) revision 4  
. .  
ISL>
```

5

Using and Maintaining the Tape Drive

This chapter describes procedures for the tape drive that comes with your HP 3000 Series 9X8LX. A DDS tape drive stores data on cassette tapes in a format called *digital data storage* (DDS). To avoid loss of data and damage to your DDS drive, use only properly certified DDS cassette tapes, not DAT tapes, which are only tested for audio use. Hewlett-Packard makes no warranty for tapes other than those sold specifically for this tape drive and recommends that you use Hewlett-Packard DDS cassettes with your DDS-format drive.

The digital data storage (DDS) tape drive is mounted in the same cabinet with the computer. The tape drive is located just below the computer switches and indicators. The tape drive that comes with your computer system is the one shown in Figure 5-1.

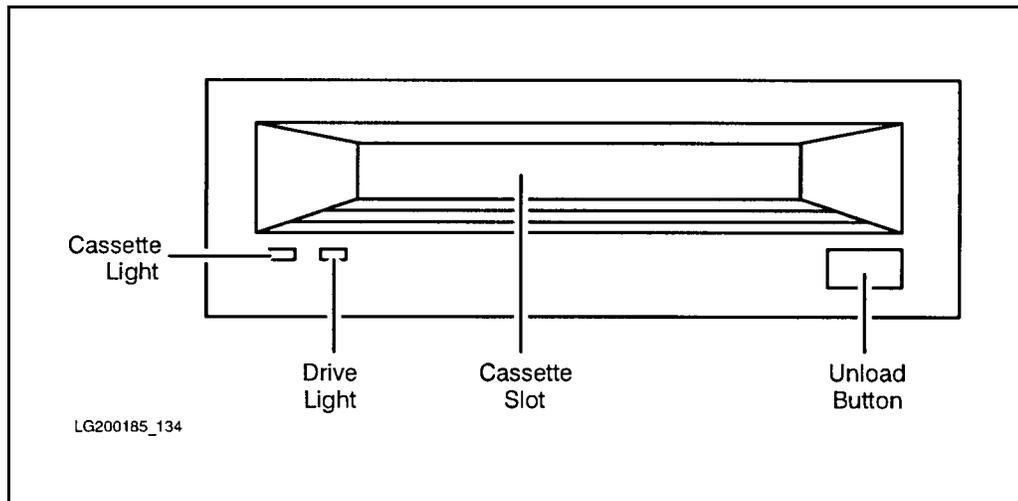


Figure 5-1. HP C1503A 3.5-Inch Tape Drive Front Panel

Getting To Know Your Tape Drive

When familiarizing yourself with the tape drive and its indicators, here are some terms for you to know.

- **Cassette Slot:** is where the tape cassette is inserted and removed.
- **Unload Button:** stops any tape operation, rewinds the tape, and ejects the cassette from the tape drive.
- **Cassette Light and Drive Light:** indicate the status of the tape drive. Both lights are capable of displaying yellow or green colors. The combinations of green lights, yellow lights, and no lights, show normal operation status, operation with write protect, and caution states.

Ordering HP DDS Cassettes

The 60-meter cassette tape, product number HP 92283A, can hold up to 1.3 gigabytes (1300 megabytes) of data. These cassettes are packaged in red boxes, five cassettes to a box.

The 90-meter cassette tape, product number HP 92283B, can hold up to 2 gigabytes (2000 megabytes) of data. These cassettes are packaged in a yellow box.

The cleaning cassette tape is product number *HP 92283K*.

Table 5-1 shows the types of DDS tapes available and which tape drives they are compatible with. This is important to know before loading a DDS cassette into a tape drive for operation.

Table 5-1. DDS Tape Requirements

	HP 3.5-inch C1503A	Non-HP DDS Device
60M (red)	Read (yes) Write (yes)	Read (yes) Write (yes)
90M (yellow)	Read (yes) Write (yes)	Read (*) Write (*)

*Refer to the manufacturer's specification.

Operating a DDS Tape Drive Using DDS Cassettes

Operating your tape drive consists of knowing how to do the following:

- preparing your cassette
- loading and unloading your cassette
- making a tape for read only
- making a tape for read and write
- handling and storing your cassette
- periodic tape head cleaning

Preparing Your Cassette

When preparing your cassette for loading into the tape drive, you must decide if the cassette should be a read-and-write tape or a read-only tape.

To allow a cassette to be written on

To allow a cassette to be written to as well as read from, slide the tab on the rear edge of the cassette so that the recognition hole is closed. This cassette is a read-and-write tape as shown in the following illustration.

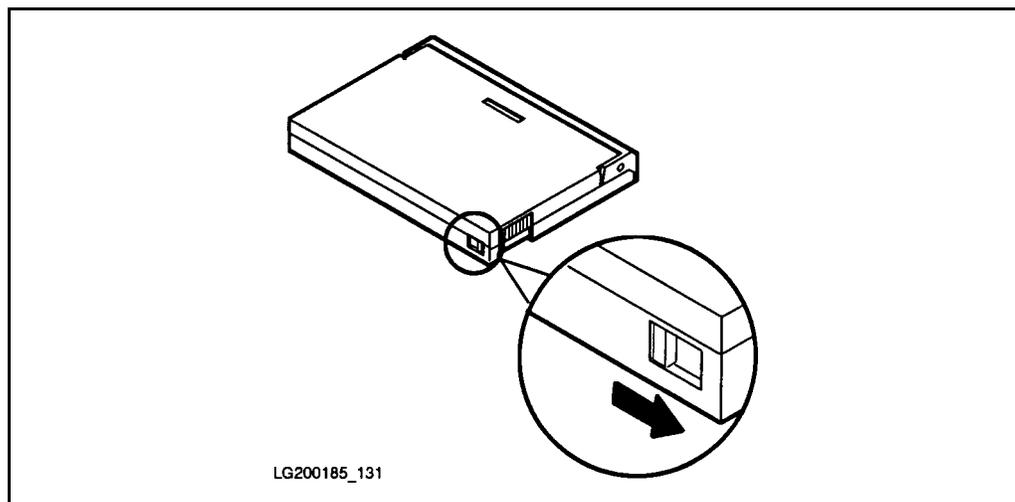


Figure 5-2. Close the Recognition Hole to Write on a Cassette

To protect data on a cassette

To protect the data on a cassette from being altered or overwritten, you can make a read-only cassette. To do this, slide the tab on the rear edge of the cassette so that the recognition hole is open.

5-4 Using and Maintaining the Tape Drive

To load a cassette

To load your cassette into a digital data storage (DDS) tape drive:

1. Insert the tape cassette squarely into the slot in the front of the drive. Make sure that the label is facing uppermost, then follow the arrowhead on the cassette case. Only *minimum* force is necessary when doing this. *Do not* restrain the cassette when pushing it into the drive because it could jam in the mechanism. The drive automatically ejects an incorrectly loaded cassette after 10 seconds.

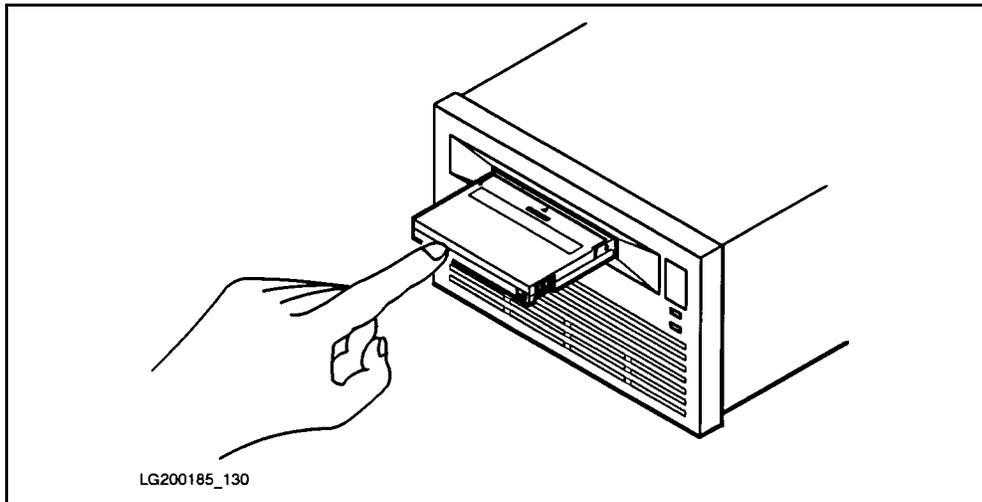


Figure 5-3. Inserting a Cassette

2. Locate the cassette squarely in the slot (not at an angle). Using single-finger pressure on the rear of the cassette allows the autoloading mechanism to take the cassette and load it into the drive. The loading sequence to thread the tape takes about 25 seconds.
3. Observe that the load sequence is finished when only the cassette light remains lighted. The light is a steady green if the cassette is read and write, and is yellow if the cassette is read only.

Caution *Do not* try to load another cassette when a cassette is already in the drive. Check for a “cassette loaded” indication on your tape drive if you are not sure whether or not a cassette is loaded.

To unload a cassette

To unload your cassette from the tape drive:

1. Press the unload button on the front panel.

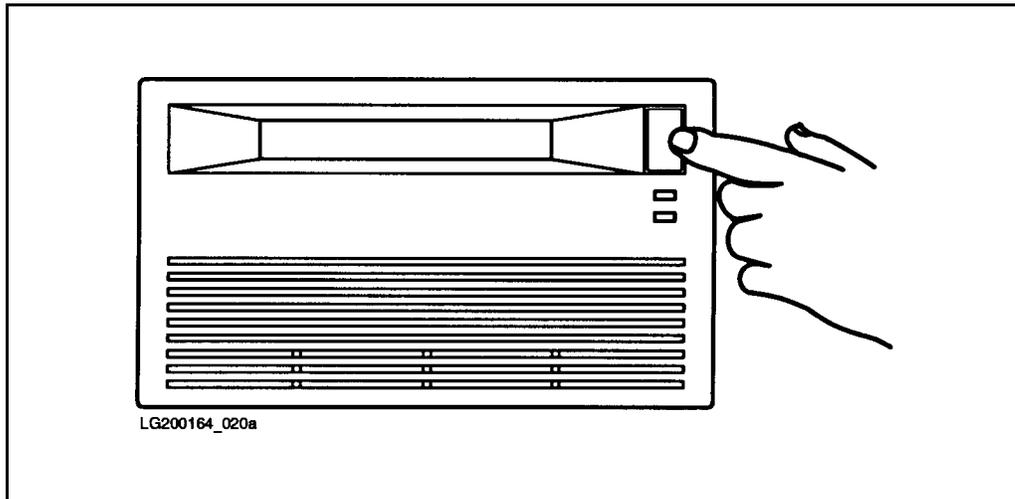


Figure 5-4. Unloading a Cassette

This starts a sequence that rewinds the tape to the beginning and ejects the cassette. The sequence takes about 10 seconds.

During the unload sequence, both front panel lights pulse green (yellow if the tape is read only).

2. Remove the cassette, label it appropriately, and store it in its plastic case.

5-6 Using and Maintaining the Tape Drive

To label a cassette

In order for you to identify what kind of information is stored on the cassette, it is important for you to have a label on it. When you label your cassette, follow these guidelines:

- Use only one label on each cassette.
- Use only standard labels recommended for cassettes.
- Stick the label only in the label area. Do not stick anything else to the cassette.

Interpreting Indicator Status Lights

The various status states that you will see displayed are shown in the following table.

The cassette indicator and the drive indicator are bi-color light emitting diodes (LEDs). They can show green or yellow light.

Table 5-2. HP 3.5-inch DDS Tape Drive

Cassette Light	Drive Light	Condition
No Cassette States		
Off	Off	No cassette loaded, or power is off.
Flash Yellow	Flash Yellow	Self-test in progress.
On Green	Flash Green	No cassette; tape drive is active.
Write Enable States		
On Green	On Green	Cassette loaded; tape drive online.
On Green	Flash Green	Cassette loaded; tape drive active.
Pulse Green	Pulse Green	Loading, unloading, or ejecting cassette.
On Green	Off	Tape drive offline.
Write Protect States		
On Yellow	On Green	Read-only cassette loaded; tape drive online.
On Yellow	Flash Green	Read-only cassette loaded; tape drive active.
Pulse Yellow	Pulse Green	Loading, unloading, or ejecting cassette.
On Yellow	Off	Tape drive offline.
Error States		
On Green	Pulse Green/Yellow	Caution ¹ (media warning).
On Yellow	On Yellow	Moisture detected, ² or no termination resistors.
Pulse Yellow	On Yellow	Fault ³ .

¹ This occurs during writes where an excessive number of read-after-write errors occur and during reads where an excessive level of C3 correction is being applied. This indication would persist until the cassette is unloaded.

² The termination resistor problem occur only at power-on time, and the tape drive appears to have *hung* during self-test.

³ Indicates a failure of the DDS field replaceable unit.

5-8 Using and Maintaining the Tape Drive

Interpreting Status Signal Conditions

When operating your tape drive, be aware of the indicator lights displaying conditions to notify you of the status.

If you have a read-only tape

If the cassette is a read-only tape, the cassette light shows yellow during normal operations.

If you see a caution signal

The caution signal is indicated by the cassette light alternating between green (for 4.5 seconds) and off (for 0.5 seconds). For normal operation, it typically is a steady green. If this caution condition occurs, it means that the tape drive is having to correct an excessive number of errors when using the cassette. This can mean that the tape heads need cleaning or that the tape is nearing the end of its useful life.

When you see a caution signal, first clean the tape heads using the tape cleaning procedures described later in this section. If the signal occurs again, you should copy the data from the tape onto a new tape using this procedure sequence:

1. Copy the data from the tape onto disk.
2. Copy the data from the disk onto a new tape.
3. Discard the old tape.

If the humidity is high

If the humidity rises too high, both front panel indicators show a steady yellow. The tape drive will not perform any operations requiring movements of the tape until the humidity has dropped to within specification again. Refer to “Handling and Storing Cassettes” in this chapter for information on how to handle your cassette tapes in these conditions.

If you have a fault warning

If a fault is diagnosed during the self-test performed when the system is switched on, the result is indicated by the cassette light pulsing in groups of one, two, or three pulses, while the drive light shows a steady yellow. If this happens, make a note of the pattern and, call your Hewlett-Packard support representative.

If You Need to Copy Data From the Tape Onto Disk

Caution The following procedure can cause good data files to be written over by corrupted files. Before proceeding on to the following task, be sure that you fully understand the scope of the commands being used.

Use the **RESTORE** command and its options to copy files from your cassette tape back onto the system. Before you restore the files, use the **RESTORE** command with the **LISTDIR** option to display the files on the tape. After determining the files to be restored, issue the **RESTORE** command with the **SHOW** option.

To restore your files, follow these steps. (If you are already in **MANAGER.SYS**, omit step 1.)

1. Use the **HELLO** command to log on as **MANAGER.SYS**.

```
: HELLO MANAGER.SYS Return
```

2. Load the cassette tape into the tape drive from which you wish to copy files to the system disk.
3. For the HP 3000 Series 9X8LX with the built-in tape drive, type this file equation at the system prompt (specifying **@.@.@** will restore all the files to the system disk):

```
: FILE T;DEV=TAPE Return  
: RESTORE *T;@.@.@;SHOW Return
```

5-10 Using and Maintaining the Tape Drive

For additional information about restoring files, refer to the book, *Task Reference* (B3813-90009).

If you need to copy from the system disk onto a new tape

Use the `STORE` command and its options to copy your files from the system disk onto a cassette tape. Begin by using the `FILE` command to create a file equation to specify the tape device that you wish to copy to. For the HP 3000 9X8LX with the built in tape drive, use the `FILE T;DEV=TAPE` file equation. In the command line for `STORE`, use the `SHOW` option to list the files to verify that they are the files that you wanted to copy onto tape.

You should still be in the `MANAGER.SYS` account when you are copying from the system onto the cassette tape. Begin by loading your read-and-write tape into the tape drive, and then proceed with one of these procedures:

- To copy more than one file to tape, type the following at the system prompt:

```
: FILE TAPE1;DEV=TAPE (Return)
: STORE filename, filename, filename;*TAPE1;SHOW (Return)
```

- To copy all files in a group to tape, type the following at the system prompt:

```
: FILE TAPE1;DEV=TAPE (Return)
: STORE @.groupname;*TAPE1;SHOW (Return)
```

Handling and Storing Cassettes

Environmental conditions can affect the reliability of data stored on cassette tapes. It is recommended that you only use cassettes labeled “DDS” in your DDS-format tape drive. *Do not* use cassettes labeled “DAT,” because the media is not certified and integrity cannot be guaranteed. It is recommended that you only use DDS cassettes marketed by Hewlett-Packard, which meet exacting high standards.

To ensure data integrity for your cassettes, follow these guidelines:

- Do not touch the tape or attempt to clean the tape path or tape guides inside the cassette.
- Do not leave cassette tapes in excessively dry or humid conditions.
- Do not leave cassette tapes in direct sunlight or in places where magnetic fields are present (for example, under telephones or near transformers).
- Do not drop cassettes or handle them roughly.
- Do not stick more than one label onto cassettes; extra labels could cause the cassettes to jam in the tape drive.
- Store cassettes in their plastic cases when not in use.
- Do not let cassettes get dirty, and always stack the cassettes in a clean environment.
- Do not use cassettes when the Caution signal is displayed by the cassette light, located on the front panel. The light shows a repeating pattern of green for 4.5 seconds, then off for 0.5 seconds. If this light pattern appears, it means that the tape heads need cleaning or that the tape is nearing the end of its useful life.

Temperature considerations

The cassettes should be used only at temperatures between 5°C (41°F) and 45°C (113°F). You can, however, store them at temperatures down to -40°C (-40°F).

If you expose cassettes to temperatures outside the operating limits, stabilize them before you use them. To do this, leave the cassettes in the recommended operating temperature for a minimum of two hours.

To avoid temperature problems, observe these guidelines:

- Ensure that the tape drive is in a position where the temperature is relatively stable, for example, away from open windows, fan heaters, and doors.
- Avoid leaving cassettes in severe temperature conditions, for example, in a car standing in bright sunlight.
- Avoid transferring data (reading from and writing to cassettes) when the temperature is changing by more than 10°C (50°F) per hour.

5-12 Using and Maintaining the Tape Drive

Environmental and usage limits

Appropriate conditions of operating, storage (long-term), and transporting environments for your cassette tapes are as follows:

- **Operating temperature** is 5°C to 45°C (41°F to 113°F).
- **Operating humidity** is 20% to 80% relative humidity, non-condensing. Maximum wet bulb temperature is 26°C (79°F).
- **Storage temperature** is 5°C to 32°C (41°F to 90°F).
- **Storage humidity** is 20% to 60% relative humidity, non-condensing. Maximum wet bulb temperature is 26°C (79°F).
- **Transporting temperature** is -40°C to 45°C (-40°F to 113°F).
- **Transporting humidity** is 5% to 80% relative humidity, non-condensing. Maximum wet bulb temperature is 26°C (79°F).
- **Recommended useful life** of a cassette is 300 insertions into the tape drive.

To determine storage life of a DDS cassette

Data can successfully be stored on DDS cassettes for a period of 10 years. You should give each cassette a full pass in the drive at least once a year to prevent sticking. Store cassettes according to the environmental specifications mentioned.

Cleaning Tape Heads and Choosing Your Cassettes

The environment in which you use your tape drive and store the cassettes helps provide optimum conditions for good performance. It is also important that you take care to ensure that reliability continues. You can do this through regular cleaning of the tape heads in the drive and through correct handling of the cassettes. Cleaning the tape heads helps prevent problems of data integrity in two areas:

- head clogs, when a speck of dirt adheres to the tape head and prevents data from being read or written correctly

- scratches on the tape, usually caused by dirt particles becoming trapped between a tape guide and the tape and scratching the surface as the tape passes by

Any of the following conditions indicate that the tape heads need cleaning:

- after every 25 hours of use
- if the tape drive indicates that it is correcting an excessive number of errors (See your tape drive manual for details.)
- when the green Caution signal displayed by the cassette light, located on the front panel, is active
- when both the cassette and drive lights are on yellow

To clean the tape heads

Use the following procedure to clean the tape head:

1. Insert the cleaning cassette, product number HP 92283K, into the tape drive slot. (*Do not* use swabs or other means of cleaning the heads.) The tape drive automatically loads the tape and cleans the heads. When the cleaning is complete, the tape drive unloads and ejects the tape.
2. After each cleaning, record on paper that the cleaning cassette has been used.
3. Discard the cleaning cassette after 25 uses. Ensure that you have another cleaning cassette to use.

To choose cassettes labeled DDS

It is important that you use cassettes labeled “DDS” in your DDS-format drive. *Do not* use cassettes labeled “DAT,” because the media is not certified and, therefore, integrity cannot be guaranteed. In addition, DAT cassettes have a different mechanical specification, which may cause them to jam in the mechanism. Damage caused by the use of non-DDS media may invalidate the warranty on your tape drive.

5-14 Using and Maintaining the Tape Drive

To determine number of DDS cassettes needed

The total number of cassettes needed depends on your backup routine; however, it is advisable to keep extra cassettes for the following:

- a spare set for full backup
- a spare cassette for use for diagnostics by your Hewlett-Packard customer engineer
- cassettes for file transfers
- cassettes for any archival storage you may require

6

Getting Started with HP Easytime/iX

This chapter describes how to log on to your system and start HP Easytime/iX, and how to exit HP Easytime/iX and log off. It also explains and lets you practice the basic skills that you need to use the product effectively, including the following:

- logging on and starting HP Easytime/iX
- exiting HP Easytime/iX and logging off
- getting help
- using the Main menu
- working with screens
- working with menus
- working with list boxes
- working with dialog boxes
- understanding operating modes
- practicing basic skills

Are You Ready?

Every HP 3000 Series 9X8LX arrives with HP Easytime/iX preinstalled. If you did not receive HP Easytime/iX installed as part of your system, you need to install the software before you can use the program. You receive the program on either a 1/2-inch magnetic tape or on a digital data storage (DDS) cassette.

To install HP Easytime/iX

MPE/iX system manager or operator capabilities are required to install HP Easytime/iX. Follow the installation instructions that you received with your tape.

To customize HP Easytime/iX

If you are the system manager, you can use the setup program to customize the HP Easytime/iX program. See “Customizing HP Easytime/iX” in chapter 3 of this manual. This program is optional. HP Easytime/iX arrives set up for you. You can use it as is, or customize it to meet your particular needs.

To enable HP Easytime/iX

Before you can use HP Easytime/iX, the program must be enabled. This is a system administrator responsibility. If you are not the system administrator, ask the system administrator to do this for you.

1. Log on to the system as **MANAGER.SYS**.
2. From the system prompt, type:

```
:RUN EASYTIME.PUB.SYS Return
```
3. Press **F5** **OK** to enable HP Easytime/iX.

You can now start HP Easytime/iX and begin performing tasks. If, at some later time, you need to disable HP Easytime/iX again, see the following procedure.

6-2 Getting Started with HP Easytime/iX

To disable HP Easytime/iX

Disabling HP Easytime/iX is a system administrator responsibility. You may want to do this, for example, before a system shutdown.

1. Log on to the system as `MANAGER.SYS`.
2. Start HP Easytime/iX.
3. Switch to system administrator mode.
4. From the Main menu, press **(D)** for Disable HP Easytime/iX.
A dialog box prompts you for confirmation.
5. Press **(F5)** **OK** to confirm disabling HP Easytime/iX.
6. Press **(F5)** **Yes** to confirm again.

Logging On and Starting HP Easytime/iX

Logging on means identifying yourself to the computer. You must identify yourself as an authorized user by typing your *logon identity* (user name and account) and a password (if any). If you do not have a logon identity, ask your system administrator to give you one.

Once you log on, you begin your communication with the HP 3000 computer and can start working.

To log on

1. After switching on the terminal, press **Return** one or more times until you see the system prompt.
2. Type your logon identity. For example:

```
MPE XL:HELLO PAT.FINANCE
```

3. Press **Return**.
4. Type any required passwords.

As a security precaution, passwords are not displayed on the screen as you type them.

5. Press **Return**.

A system prompt (:) signals the start of your session. A welcome message may also be displayed.

To start HP Easytime/iX

Once you have logged on (and the program is enabled), you can start HP Easytime/iX.

1. From the system prompt, type:

```
:RUN EASYTIME.PUB.SYS Return
```

Unless your system administrator has changed this, the Main menu is displayed on your screen. This is where you begin your work. The figure below illustrates the Main menu.

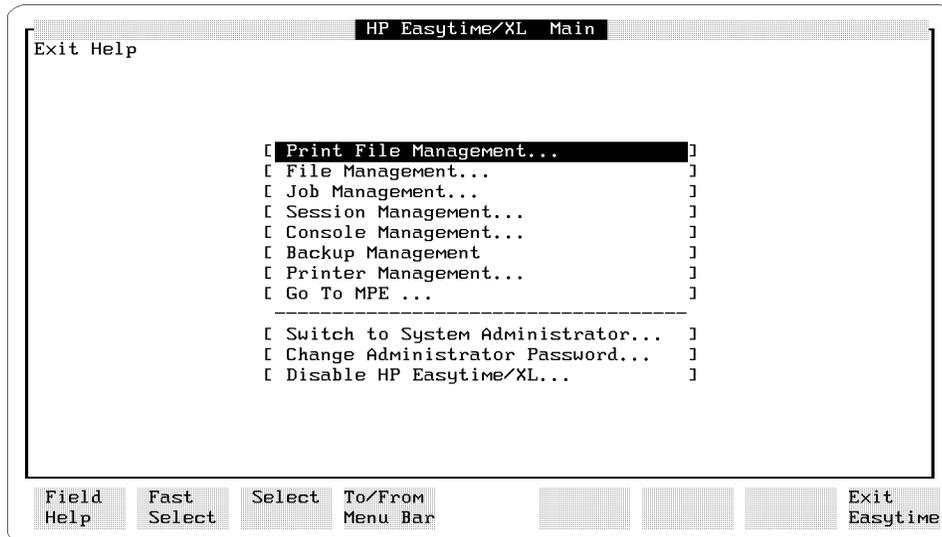


Figure 6-1. Main Menu

Welcome to HP Easytime/iX! Now you are ready to begin learning about basic skills and HP Easytime/iX tasks.

The following pages describe the basic skills that you need to use HP Easytime/iX. If you do not want to continue with basic skills now, you can exit HP Easytime/iX with the following procedure.

To exit HP Easytime/iX

1. Press **(F2) (E)** to open the Exit menu.
2. Press **(X)** for Exit HP Easytime/iX.
3. Press **(F5) Yes** to confirm that you want to exit.

This ends your current HP Easytime/iX session.

To go to the MPE/iX operating system

You can also exit HP Easytime/iX *temporarily* to execute an MPE/iX command or start another application, and then quickly return to HP Easytime/iX.

1. Press **(F8) Close** one or more times until the Main menu appears.
2. Press **(G)** for Go to MPE.

The MPE/iX system prompt is displayed on your screen. You can now enter an MPE/iX command or start another application.

3. Type EXIT when you want to return to HP Easytime/iX.

If you do not need to return to HP Easytime/iX, you can type BYE to end your MPE/iX session and log off. When you end your MPE/iX session, you end your HP Easytime/iX session as well.

To log off

1. Exit HP Easytime/iX.
2. From the system prompt, type BYE.

A closing message displays the current time, date, and amount of CPU time that your session used. Switch off the terminal screen after you receive the disconnect message.

6-6 Getting Started with HP Easytime/iX

Getting Help

There are two ways to get help in HP Easytime/iX. You can access the **Help** menu for a complete index of help topics, or you can press **(F1) Field Help** for context-sensitive help about an object on the screen.

The HP Easytime/iX Help menu is available on every screen. The Help menu provides the following six categories of help information:

<u>Use this topic</u>	<u>To do this</u>
Help	Access information about the HP Easytime/iX help facility.
Basic skills	Access information about basic skills and concepts that you will need to use the product effectively.
Procedures	Access step-by-step procedures for every task available on a screen.
Keys	Access information about cursor movement keys, dialog box keys, function keys, and editing keys in HP Easytime/iX.
Glossary	Access an alphabetical listing of HP Easytime/iX terms and definitions.
Version	Access information about the current version of HP Easytime/iX on your system.

To use the Help menu

1. Press **(F4) (H)** to open the Help menu.
2. Press the key that corresponds to the underlined character in the menu item that you want. For example, press **(P)** for help on Procedures.
An index of help topics for this screen is displayed.

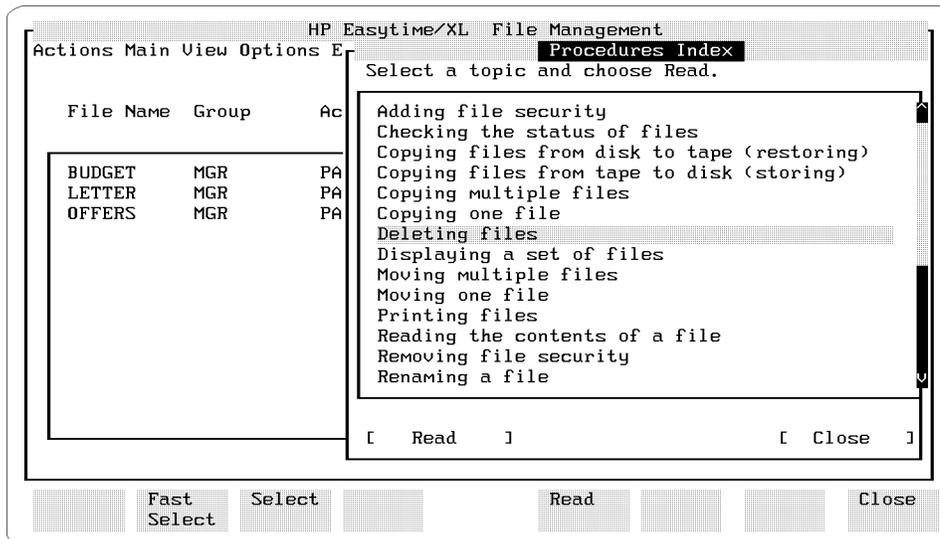


Figure 6-2. Index of Help Procedures

To select and read a help topic

1. Press **▲** or **▼** to move the cursor to a help topic.
2. Press either **F3**, **Spacebar**, or **Return** to select the topic.
3. Press **F5** **Read**.

A help window displays help information about that topic.

4. Press **F8** **Close** when you are finished reading.

If you want to choose another help topic, press **Tab** twice to go back to the list of topics and select another.

5. Press **F8** **Close** again to close the Help menu.

6-8 Getting Help

To use the help key

With the help key you can access field-specific help about an object on the screen or in a menu, for example, a task or a data-entry field.

1. Move the cursor to an object on the screen.
2. Press **(F1) Field Help** to get help information about that object.
3. Press **(F8) Close** to close the help window when you are finished reading.

Using the Main Menu

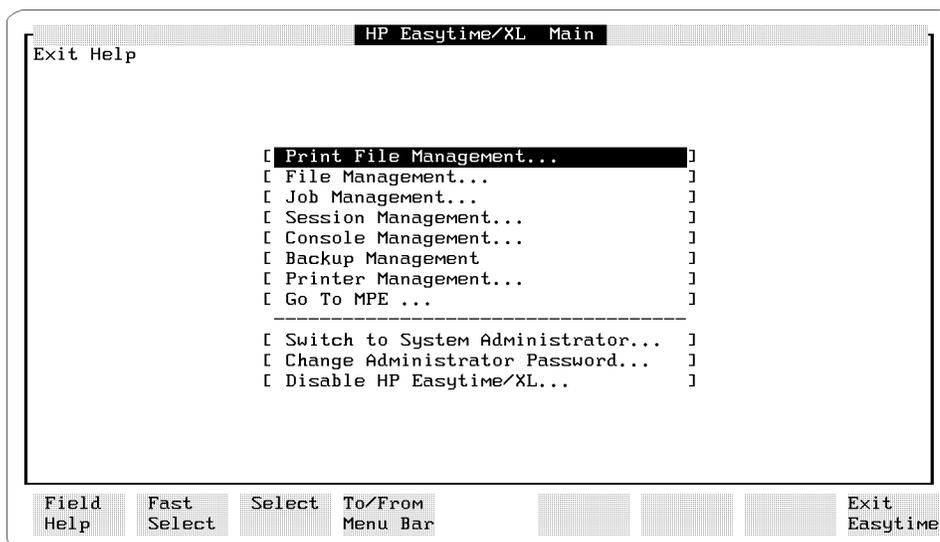
The Main menu is your focal point in HP Easytime/iX and usually the first thing that you see after starting HP Easytime/iX. Through the Main menu, you can access any HP Easytime/iX screen.

To open a screen from the Main menu

1. Press the key that corresponds to the underlined letter in the screen that you want to open, for example, press

P for Print File Management

Or, use the **▲** or **▼** keys to highlight the screen that you want, and press **Return**.



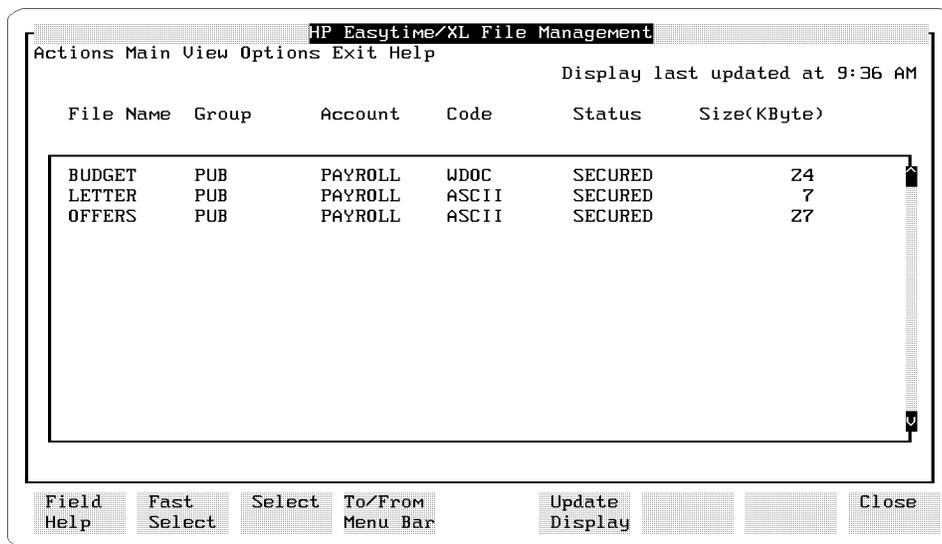
To get help about Main menu items

1. Press **▲** or **▼** to highlight a menu item.
2. Press **F1** **Field Help** to get context-sensitive help about that screen or task.

6-10 Using the Main Menu

Working with Screens

Each area of management in HP Easytime/iX (for example, File or Session Management) is displayed on a screen. Through screens you can access information about the current status of the system and perform system management tasks.



To identify the parts of a screen

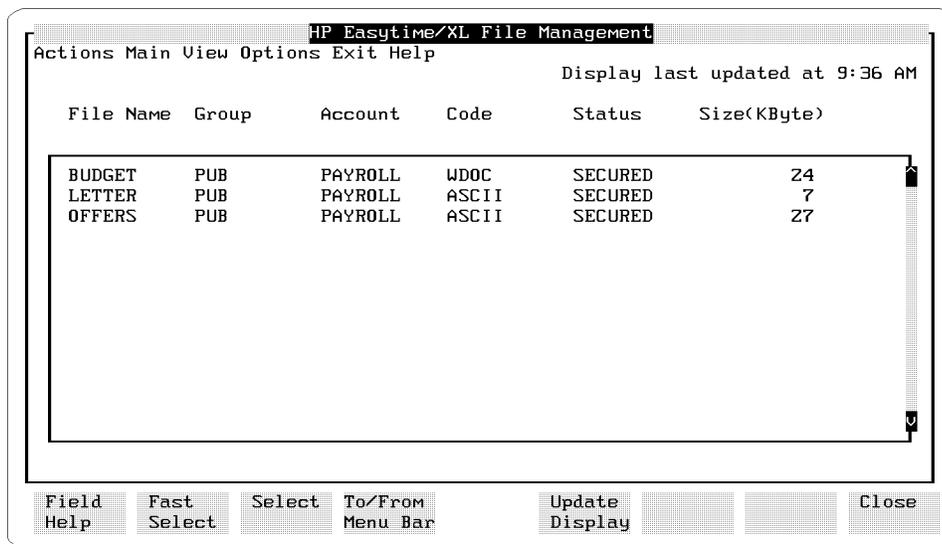
Each HP Easytime/iX screen contains the following:

- title bar** A horizontal bar that is located at the top of each screen and contains the name of the screen.
- menu bar** A horizontal bar located directly below the title bar containing the names of the HP Easytime/iX menus.
- status line** The third line on your screen (directly below the menu bar). The status line displays messages from the system that tell you when you need to do something, for example, load a form in the printer. The status line also displays the time the screen was last updated.

- | | |
|---------------|---|
| list box | A box listing available choices, for example, a list of available files on the system. |
| message line | The bottom line on your screen. Information about what is happening on the system is displayed here. |
| function keys | Along the top of the keyboard are eight keys labeled F1 through F8. These function keys correspond to the eight function key labels along the bottom of each HP Easytime/iX screen. |

Working with Menus

All HP Easytime/iX menus appear on the menu bar. The menu bar appears directly below the title bar. Each menu contains a list of available tasks (menu items) that let you determine what action to take next. You can also access the Main menu from the menu bar on any HP Easytime/iX screen.

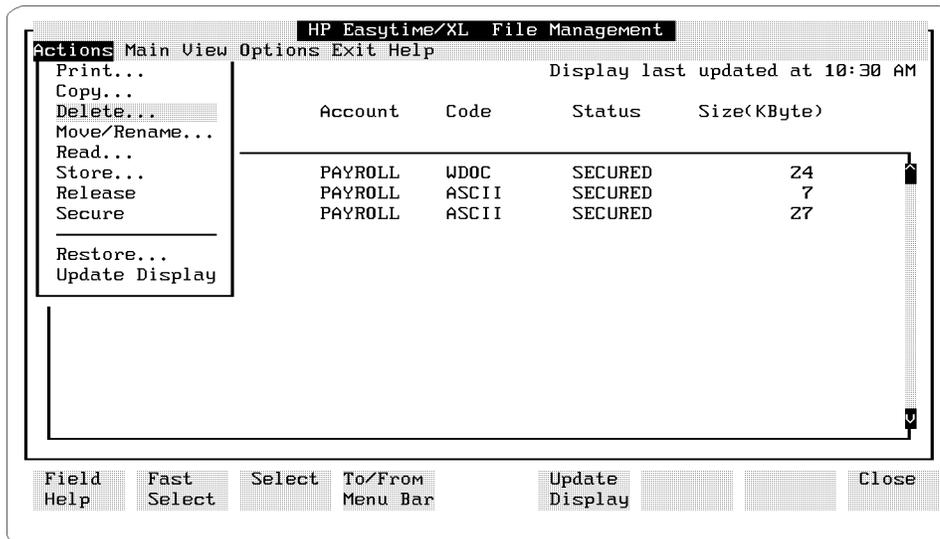


To open a menu

You can open any menu in HP Easytime/iX by going to the menu bar and pressing the key that corresponds to the underlined letter in the menu that you want to open. For example, to open the Actions menu:

1. Press **(F4)** to go to the menu bar.
2. Press **(A)** to open the Actions menu.

You can also use **(F2) Fast Select** and an underlined character for a faster method of opening menus. For example, press **(F2) (A)** to open the Actions menu.



To choose a menu item

All HP Easytime/iX tasks are listed on menus. You perform tasks by choosing the menu item.

1. Press the key that corresponds to the underlined character in the menu item that you want. For example, press

D for Delete.

Or, use **▲** or **▼** to highlight the menu item that you want, and press **Return**.

To close a menu

- Press **F4** again to close a menu and exit the menu bar.

Or, press **▶** or **◀** to open other menus on the menu bar.

You automatically close one menu when you open another.

6-14 Working with Menus

To understand menu conventions

Not all HP Easytime/iX menu items look the same. Menu items can be shaded, preceded by an asterisk, highlighted, or followed by an ellipsis (...). Additionally, each menu item has one letter underlined. The following table explains HP Easytime/iX menu conventions.

<u>Menu convention</u>	<u>Definition</u>
Shaded	This menu item or screen is not available. This can be because you are currently working on this screen, or because system administrator access is required to perform the task.
Ellipsis (...)	Indicates that a dialog box or another screen will appear when you select this item.
Asterisk	Indicates which default setting is active.
Underlined Character	Indicates which key to press to access a menu or to select a menu item.

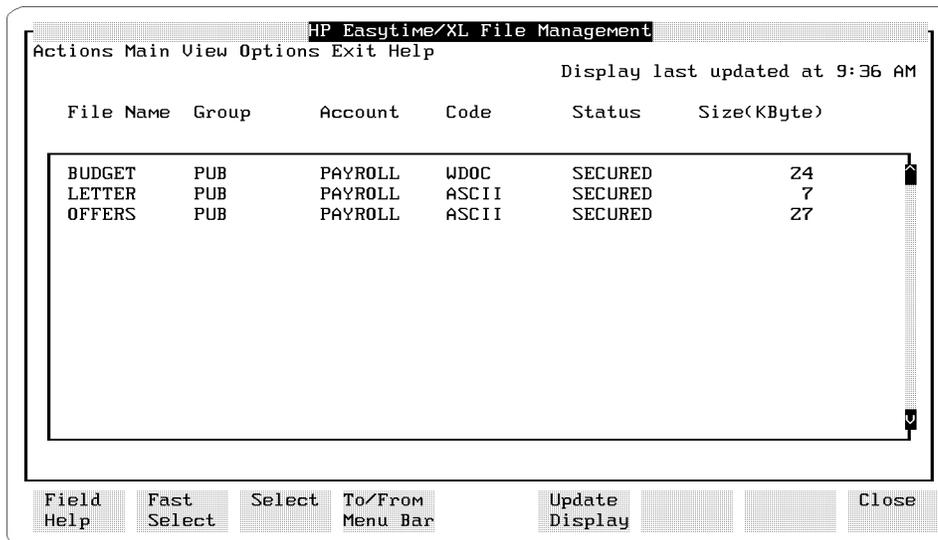
Working with List Boxes

Each HP Easytime/iX screen contains at least one *list box*. A list box is an area displaying columns of information. These can be items related to the current HP Easytime/iX screen, for example, a list of files on the File Management screen, or a list of available choices, for example, printers currently available on the system.

To identify a list box

Every list box contains a *scroll bar* on the right edge (and/or bottom edge) of the list box. If there are more items available than fit in the list box, scroll bars allow you to scroll through the list to view more information. The *scroll bar arrows* indicate the directions that you can scroll in a list.

Figure 2-6 illustrates the list box on the File Management screen.



To scroll in a list box

The cursor keys that you use depend on the kind of terminal and keyboard that you have. You can use the following keys to scroll in a list box:

<u>To scroll</u>	<u>Press these keys</u>
Up one line	▲
Down one line	▼
Up one page	Scroll Up
	Shift + ▲
Down one page	Scroll Down
	Shift + ▼
Right one page	Next
Left one page	Prev
To the top of the list	⏪
To the bottom of the list	Shift + ⏩

To select items in a list box

When working in a list box, you can select one item, multiple items, a range of items, or all items.

To select one or more items

1. Move the cursor to the item that you want to select.
2. Press either **F3**, **Return**, or **Spacebar**.

The item that you selected should now be highlighted.

If you selected the wrong item, you can cancel your selection by pressing **F3**, **Return**, or **Spacebar** again.

3. Repeat steps 1 and 2 to select as many items as you like.

To select a range of items

1. Move the cursor to the first item that you want to select.
2. Press **(F2) Fast Select** and then **(F3) Select**.
3. Move the cursor to the last item that you want to select.

As you move the cursor, the items in the list are highlighted line by line.

4. Press **(F2) Fast Select** and then **(F3) Select** to end the range selection.

To select all items

- Press **(F2) Fast Select** and then **(/)**.

All items in the list are selected. This includes items that are not visible in the list box.

To cancel all selections

- Press **(F2) Fast Select** and then **(\)**.

Or, press **(F5) Update Display**.

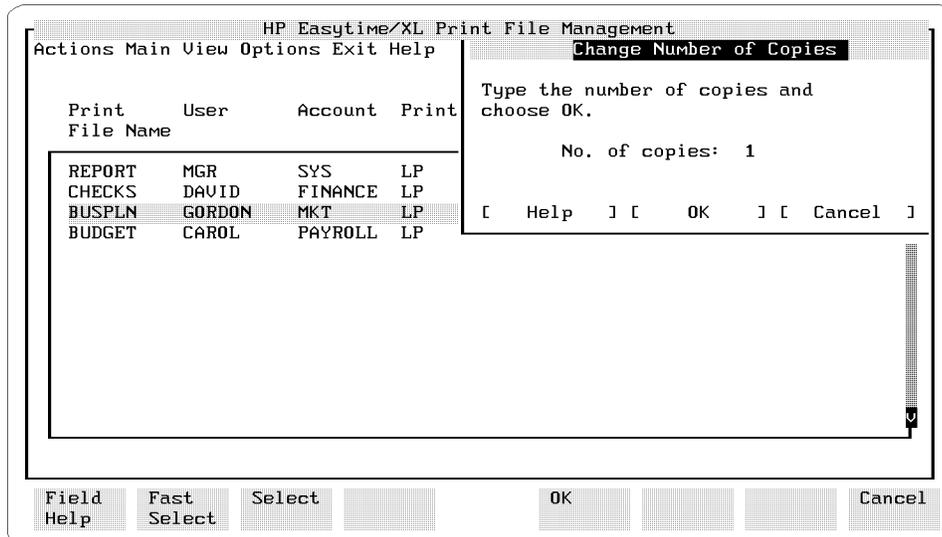
Updating the display always cancels any selected items.

Working in Dialog Boxes

HP Easytime/iX uses *dialog boxes* to present information or to prompt you for data needed to complete a task. Dialog boxes are windows that appear on your screen overlaying a portion of the current display.

Dialog boxes usually contain one or more *fields* (areas that you can fill in or edit), or a list of choices from which you can select a value.

Whenever an ellipsis (. . .) appears after a menu item, you know that a dialog box (or another screen) follows.



When a dialog box appears, you may be asked to input information in any of the following ways:

- Type the information in a field.
- Select one or more items in a list.
- Choose from a set of available options.

To type text in a field

1. Press **(Tab)** to move from one data-entry field to the next.
2. Type the requested information.

To correct typing errors

You can use any of the following keys to correct typing errors:

<u>To do this</u>	<u>Press these keys</u>
Go to insert mode	(Insert char)
Exit insert mode	(Insert char) again
Delete a character	(Delete char)
Delete one character to the left	(Backspace)
Delete all characters	(Delete line)
Delete all characters to the right of the cursor	(Clear line)

To select from a list in a dialog box

You can select only one item from a list that appears within a dialog box. Often, one item that is highlighted (preselected) for you.

1. Use the **(▲)** and **(▼)** keys to move the cursor to the item that you want to select.
2. Press either **(F3)**, **(Return)**, or **(Spacebar)**.

To choose options in a dialog box

1. Press **Tab** to move to the option that you want.
2. Press either **F3**, **Return**, or **Spacebar** to choose the option.

Selected choices are marked by either an asterisk <*>, or by [X].

Type

```
<*> Full
< > Partial
```

Restore options

```
[X] Do not overwrite files on disk.
[ ] Create accounts, groups, users as needed.
[X] Restore files to logon group and account.
[ ] Restore directory information.
```

To move in a dialog box

< > You can use the following keys to move around in a dialog box:

<u>To move</u>	<u>Press these keys</u>
To the next field	Tab
To the previous field	Shift + Tab
One character to the right	▶
One character to the left	◀

To close a dialog box

- After you have supplied the requested information, press **F5** **OK** to complete a task and close the dialog box.

To cancel a dialog box

- Press **F8** **Cancel** to cancel a task and close the dialog box.

Understanding Operating Modes

There are two *operating modes* in HP Easytime/iX:

- user mode
- system administrator mode

When you start HP Easytime/iX, you are automatically in user mode. In this mode, some tasks are not available (shaded). Usually, shaded tasks require system administrator access.

To set the system administrator password

A password is required when changing to system administrator mode. If you are the system administrator, you set the system administrator password the first time that you change to system administrator mode.

1. Log on as MANAGER.SYS.
2. Start HP Easytime/iX.
3. From the Main menu, press **(A)** for **Switch to System Administrator**.
4. Type the system administrator password, and press **(Return)**.

The password must begin with a letter and can contain eight alphanumeric characters. For security reasons, each character that you type is displayed as an asterisk (*).

5. Type the password again for verification.
6. Press **(F5) OK** to set the system administrator password.

To change to system administrator mode

You must be in system administrator mode to perform every HP Easytime/iX task and to manage all files, jobs, and sessions on the system.

1. From the Main menu, press **(A)** for **Switch to System Administrator**.
2. Type the system administrator password.

The password must begin with a letter and can contain eight alphanumeric characters. For security reasons, each character that you type is displayed as an asterisk (*).

3. Press **(F5) OK** to change to system administrator mode.

To change to user mode

If you are in user mode, you can manage only your own files, jobs, and sessions.

- From the Main menu, press **(U)** for **Switch to User**.

No passwords are required when changing to user mode.

To change the system administrator password

For security reasons, it is a good idea to change the system administrator password on a regular basis. Be sure not to use a word that is easy to identify, such as your own name. This is a system administrator task.

1. Change to system administrator mode.
2. From the Main menu, press **(W)** for **Change Administrator Password**.
3. Type the new password, and press **(Return)**.

The password must begin with a letter and can contain eight alphanumeric characters. For security reasons, each character that you type is displayed as an asterisk (*).

4. Type the new password again for verification.
5. Press **(F5) OK** to change the password.

Practicing Basic Skills

This section guides you through a few tasks so that you can practice using some of the basic skills just introduced. A file called **ETLEARN** has been created for you to use throughout these exercises. Please do the tasks in the order that they are presented, as later tasks build on previous ones.

To prepare to practice basic skills

The file **ETLEARN** is located in the public group of the system account, **PUB.SYS**. Programs and applications available to all users of the system reside here. Before you can begin working with the **ETLEARN** file, you need to copy it to your own group.

If you are not already at the system prompt (:),

1. Press **(F8) Close** one or more times until the Main menu screen is displayed.
2. Press **(G)** for **Go to MPE**.
3. At the system prompt, type:

:COPY ETLEARN.PUB.SYS (Return)

This command copies the file **ETLEARN** to your logon group and account.

4. From the system prompt, type:

:EXIT (Return)

This command takes you back to HP Easytime/iX.

To read a file

You can read the contents of any file if you created it, or if you have read access as provided through MPE/iX security. With this task, you can read the contents of **ETLEARN**.

1. From the Main menu, press **(F)** for **File Management**.
2. Select the file **ETLEARN**.
3. Press **(F2) (A)** to open the **Actions** menu.

6-24 Understanding Operating Modes

4. Press **(R)** for Read.

The first 15 lines of the file are displayed on your screen. You can use the scroll keys to browse through the contents of the file.

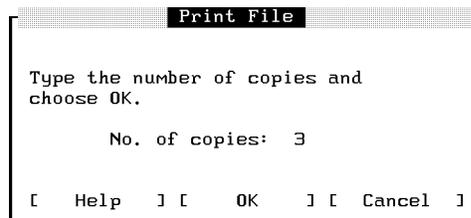
5. Press **(Shift)** + **(V)** to scroll to the next page.
6. When you are finished reading, press **(F8)** **Close** to close the file and go back to the File Management screen.

To print a file

When you request a file to be printed, you create a *print file*. A print file is a copy of the file that the system creates and sends to the printer. You print files from the File Management screen.

1. Select the file **ETLEARN** from the File Management screen.
2. Press **(F2)** **(A)** to open the Actions menu.
3. Press **(P)** for Print.

A dialog box prompts you to type the number of copies that you want printed.



4. Type 3 in the No. of copies field.
5. Press **(F5)** **OK**.

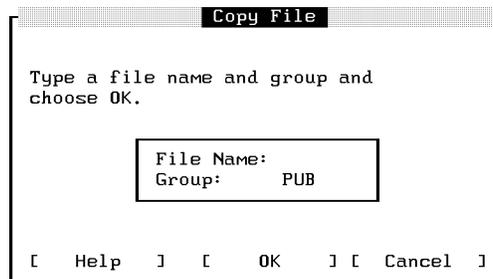
You have requested three copies of the file **ETLEARN** to be printed.

To copy a file

You can copy files to the same group or to another group in your logon account. With this task, you are going to make a copy of the file **ETLEARN** and keep it in your logon group.

1. Select the file **ETLEARN** from the File Management screen.
2. Press **(F2) (A)** to open the **A**ctions menu.
3. Press **(C)** for **C**opy.

A dialog box prompts you to type a file name and group.



4. Type a new name for the file **ETLEARN**.

A file name can be a maximum of eight alphanumeric characters and must begin with a letter.

You want to keep the file in your logon group, so leave the group field as it is.

5. Press **(F5) OK** to copy the file.

To delete a file

You can delete your own files from the system. It is important to remember that when you delete a file, you *cannot* get it back, except possibly from a backup tape.

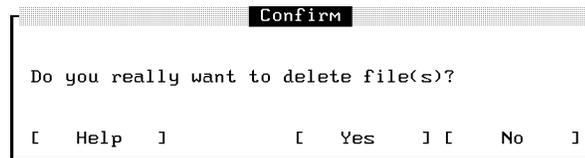
1. Select the file **ETLEARN** from the File Management screen.

6-26 Understanding Operating Modes

2. Press **(F2)** **(A)** to open the Actions menu.

3. Press **(D)** for Delete.

Whenever you delete a file, HP Easytime/iX prompts you to confirm the action.



Confirmation Dialog Box

4. Press **(F5)** **Yes** to confirm that you want to delete this file.

7

Performing Tasks Using HP Easytime/iX

This chapter describes the tasks that you can perform with HP Easytime/iX. HP Easytime/iX helps you to manage your system by organizing your daily tasks around menus that are easy to identify and use. These tasks are separated into the following categories:

- managing sessions
- managing files
- managing print files
- managing printers
- managing jobs
- managing backups
- managing console messages
- customizing HP Easytime/iX
- solving problems

Managing Sessions

When you log on to the MPE/iX system, you begin a session. This is your means of communicating with the computer. A session begins when you log on (HELLO) and ends when you log off (BYE).

The menus at the top of the Session Management screen contain all of the tasks necessary for managing your sessions, including the following:

- deleting sessions
- sending messages to other users
- limiting the number of sessions on the system
- displaying a set of sessions
- sorting a list of sessions

To access Session Management

1. Move the cursor to **Session Management** on the Main menu.
2. Press either **F3**, **Return**, or **Spacebar**.

The Session Management screen provides information about all the sessions that are logged on to the computer, including:

- name of the session
- user name and account of the session
- name of the program that the session is running (if there is one)
- date and time when the session was started
- which session is your session

The following figure illustrates the Session Management screen.

Session Name	User	Account	Program	Start Date/Time
ADMIN	DAVID	FINANCE	EASYTIME	04/24/91 3:07 PM
ROSS	ROSS	PAYROLL	EASYTIME	04/24/91 4:10 PM (YOUR SESSION)
PAT	PAT	PAYROLL	HPEDIT	04/25/91 8:22 AM

Figure 7-1. Session Management

To delete (abort) a session

Before performing routine maintenance on the system, for example, a backup, you may want to delete any active sessions (log other users off the system). This ensures that any files currently locked by an application are available for backup.

1. Select one or more sessions from the Session Management screen.
2. Press **(F2) (A)** to open the **A**ctions menu.
3. Press **(D)** for **D**elete.

A dialog box prompts you to confirm deletion.

4. Press **(F5) YES** to delete sessions.

Caution

If a user is working in an application, this task aborts the program, and *data may be lost*. For this reason, be sure to send a warning message prompting users to log off before you delete sessions. See the following procedure about how to send messages to users.

To send messages to users

You can send messages to one or more users on the system. For example, you can send a message asking users to log off before you shut down the system.

1. Select one or more sessions from the Session Management screen.
2. Press **(F2) (A)** to open the **A**ctions menu.
3. Press **(S)** for **S**end Message.
4. Type the message to be sent to other users.

Your message can be up to 80 characters in length. The field shifts to the left as you type, providing more space.

If you want a user to reply to your message, be sure to include your session name so that the user knows which session to answer. The session name and user are not automatically displayed with the message.

7-4 Managing Sessions

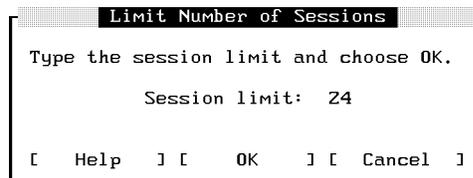
5. Press **(F5) OK** to send the message.

To limit the number of sessions on the system

If you are the system administrator, you can limit the number of users allowed to log on to the system at one time.

1. Press **(F2) (A)** to open the Actions menu.
2. Press **(L)** for Limit No. of Sessions.

A dialog box prompts you to type the session limit.



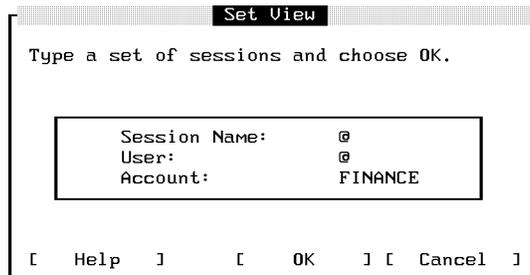
3. Type the number of sessions allowed to run concurrently.
4. Press **(F5) OK** to set the session limit.

To display a set of sessions

When you log on to HP Easytime/iX and go to Session Management, you see all of the sessions currently logged on to the system. You can use the View menu to restrict your view to a particular set of sessions, for example, those in a specific account.

1. Press **(F2) (V)** to open the View menu.
2. Press **(V)** for Set View.

A dialog box prompts you to type a set of sessions. The following example displays all sessions for all users, in the account **FINANCE**.



3. Type the set of sessions that you would like to view.

You can use wildcard characters to define the set.

4. Press **(F5) OK** to display the new view.

Only those sessions that you specified are now displayed on your screen.

This new view will last until you exit HP Easytime/iX, or change the view again.

To reset the view

If you have set the view to show only selected sessions, you can quickly reset it to display all sessions on the system.

1. Press **(F2) (V)** to open the View menu.
2. Press **(R)** for Reset View.

To sort a list of sessions

You can define how sessions are *sorted* (order in which they are displayed) on the Session Management screen. When you start HP Easytime/iX and go to Session Management, sessions are sorted alphabetically by session name. You can change this to sort sessions, for example, by user.

1. Press **(F2) (V)** to open the View menu.
2. Choose one of the following settings:

sort by Session Name

7-6 Managing Sessions

sort by User
sort by Account

The sessions on your screen will be sorted according to the setting that you selected. An asterisk (*) appears in front of the selected setting. This setting is valid until you exit HP Easytime/iX, or until you change the sort again.

Managing Files

Files store the information with which you work. Reports, spreadsheets, letters, and application programs are all files. If you use the MPE/iX editor to create a document, this document is a file.

You can use the File Management screen to manage the files on your system. If you cannot perform a task with a particular file, it may be secured. Ask the creator of the file to release it, or see your system administrator for assistance.

The menus at the top of the File Management screen contain all of the tasks necessary for managing your files, including the following:

- printing files
- copying files
- deleting files
- renaming files
- moving files
- reading files
- releasing and securing files
- displaying a set of files
- sorting a list of files

To access File Management

1. Move the cursor to **File Management** on the Main menu.
2. Press either **F3**, **Return**, or **Spacebar**.

The File Management screen provides the following information about files on the system:

- name of the file
- account and group where the file is located
- file code (ASCII or application type)
- status (whether the file is secured or released)
- size of the file in kilobytes

The following figure illustrates the File Management screen.

File Name	Group	Account	Code	Status	Size(KByte)
BUDGET	PUB	PAYROLL	WDOC	SECURED	24
LETTER	PUB	PAYROLL	ASCII	SECURED	7
OFFERS	PUB	PAYROLL	ASCII	SECURED	27

Figure 7-2. File Management

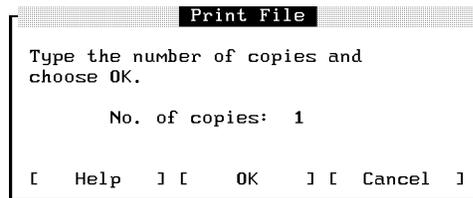
7-8 Managing Files

To print a file

When you request a file to be printed, a copy of the file (a print file) is created and sent to the printer.

1. Select one or more files from the File Management screen.
2. Press **(F2)** **(A)** to open the Actions menu.
3. Press **(P)** for Print.

A dialog box prompts you for the number of copies.



4. Type the number of copies that you want printed.
5. Press **(F5)** **OK** to print the file.

If any files have lockwords, a dialog box prompts you to type them.

The print file is directed to the HP Easytime/iX printer. You can change the HP Easytime/iX printer with the task **Set Printer** on the **Options** menu.

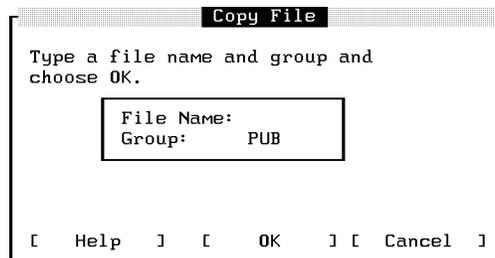
To copy files

You can copy files to the same group, or to another group in your logon account. You can also copy files to and from tape for security purposes. If you want to copy a secured file, ask the creator of the file to release it.

To copy one file

1. Select one file from the File Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(C)** for Copy.

A dialog box prompts you for a file name and group.



4. Type a file name. You must type a *new* name if copying the file to the same group.
5. Type a group if you want to copy the file to a group other than your logon group.
6. Press **(F5) (OK)** to copy the file.

If the file has a lockword, a dialog box prompts you to type it.

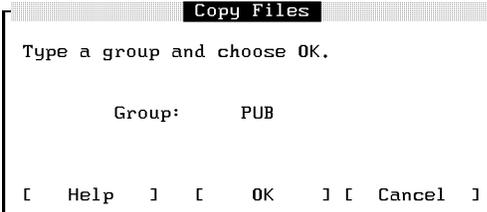
To copy multiple files

You cannot rename files when copying more than one at the same time.

1. Select files to copy.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(C)** for Copy.

A dialog box prompts you for a group.

7-10 Managing Files



4. Type a group if you want to copy the files to a group other than your logon group.
5. Press **(F5) OK** to copy the files.

If any files have lockwords, a dialog box prompts you to type them.

To copy a file from disk to tape (store)

In addition to making regular backups, you can copy files to tape at any time for security purposes.

1. Prepare tapes and device.

Refer to the reference information that you received with your tape drive.

2. Load the correct tape in the tape drive.

Caution When you start the store process, any files currently stored on this tape will be lost.

3. Select one or more files from the File Management screen.
4. Press **(F2) (A)** to open the Actions menu.
5. Press **(S)** for Store.

A dialog box may prompt you for more information. For example:

```
Reply to Request
LOAD "ETSTORE" ON TAPE (7) .

Choose
  OK      when the tape is loaded.
  Stop    to abort process and delete request.

[ Help ] [ OK ] [ Stop ] [ Cancel ]
```

Supply any requested information and press **F5** **OK** to continue.

During the store process, HP Easytime/iX displays a monitoring screen where you can check the progress of the task. Do this by pressing **F5** **Update Display** periodically. During the store process, you cannot use this terminal for anything else.

If the store is progressing correctly, the monitoring screen displays the percent complete, for example:

```
STORE OPERATION IS 25% COMPLETE.
```

When the store is finished, the following message is displayed:

```
Store finished successfully. See report ETSTLST.
```

When you see this message, the store process is finished.

6. Press **F8** **Close** to close the monitoring screen.

To stop the store process

- Press **F7** **Stop**.
- Press **F5** **Yes** to confirm.
- Press **F8** **Close** to close the monitoring screen and go back to File Management.

It can take several minutes for the store process to stop.

7-12 Managing Files

To verify files stored

HP Easytime/iX creates a print file listing every file stored and every file that the system was not able to store. Check this report to verify that all files have been successfully stored on tape. You should keep this report with your tape.

The name of the report file is **ETSTLST**. You can view and read the contents of this file on the Print File Management screen. This file can be quite large and so the status is **ON HOLD**. Take the file off hold if you want to print it.

To set store options

You can set special store options that apply when storing files. If you are the system administrator, you can save these options permanently.

1. Press **(F2)** **(O)** to open the **Options** menu.
2. Press **(S)** for **Set Store Options**.

A dialog box prompts you to choose store options.

Store Options

Store Report

Write report to File Name:
Group:
Account:

You can choose one of the following options.

Produce a tape which is compatible to MPE U/E.
 Store directory information.

[Help] [OK] [Save] [Cancel]

3. Type a file name, group, and account to save the store report in a file. If the file does not exist, HP Easytime/iX creates it for you.
4. Choose *one* of the available options.

Refer to “HP Easytime/iX Options,” in chapter 4, if you need more information.

5. Press **(F6) Save** to save the store options permanently.

Or, press **(F5) OK** to save the store options for this session only.

To copy a file from tape to disk (restore)

You can restore (copy to disk) one or more files that have been stored on tape.

1. Prepare tapes and device.

See the reference information that you received with your tape drive.

2. Load the correct tape in the tape drive.

3. Press **(F2) (A)** to open the Actions menu.

4. Press **(T)** for Restore.

A dialog box prompts you for the names of the files that you want to restore from tape.

File Name	Group	Account
BUDGET	PUB	PAYROLL
OFFERS	PUB	MKTG

5. Type one file name, group, and account.

Or, specify a set of files using wildcard characters.

6. Press **(F6) Add to List**.

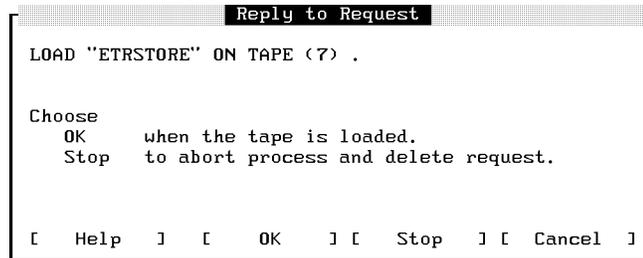
7-14 Managing Files

If you make a mistake and add a file to the list that you do not want to restore, select it and press **(F7) Delete from List**.

You can repeat steps 5 and 6 to add as many files as you like to the list.

7. When you have completed the list of files to be restored from tape, press **(F5) OK** to continue.

A dialog box may prompt you for more information. For example:



Supply any requested information, and press **(F5) OK** to continue.

During the restore process, HP Easytime/iX displays a monitoring screen where you can check the progress of the task. Do this by pressing **(F5) Update Display** periodically. During the restore process, you cannot use this terminal for anything else.

When the restore is finished, the following message is displayed:

Restore finished successfully. See report ETRSTLST.

8. Press **(F8) Close** to close the monitoring screen.

To stop the restore process

- Press **(F7) Stop**.
- Press **(F5) Yes** to confirm.
- Press **(F8) Close** to close the monitoring screen and go back to File Management.

It can take several minutes for the restore process to stop.

To verify files restored

HP Easytime/iX creates a print file listing every file restored and every file that the system was not able to restore. Check this report to verify that all files have been successfully restored from tape.

The name of the report file is **ETRSTLST**. You can view and read the contents of this file on the Print File Management screen. This file can be quite large and so the status is **ON HOLD**. Take the file off hold if you want to print it.

To set restore options

You can set special options for restoring files. If you are the system administrator, you can save these options permanently.

1. Press **(F2)** **(O)** to open the Options menu.
2. Press **(R)** for Set Restore Options.

A dialog box prompts you to choose restore options.

```
Restore Options
-----
Restore Report
Write report to File Name:
                Group:
                Account:

Restore options
[ ] Do not overwrite files on disk.
[ ] Create accounts, groups, users as needed.
[ ] Restore files to logon group and account.
[ ] Restore directory information.

[ Help ] [ OK ] [ Save ] [ Cancel ]
```

3. Type a file name, group, and account to save the restore report in a file. If the file does not exist, HP Easytime/iX creates it for you.

7-16 Managing Files

4. You can choose one or more of the available options.

Refer to “HP Easytime/iX Options,” in chapter 4, if you need more information.

5. Press **(F6)** **Save** to save the restore options permanently.

Or, press **(F5)** **OK** to save the restore options for this session only.

To delete a file

You can use this task to delete unwanted files from the system.

1. Select one or more files from the File Management screen.
2. Press **(F2)** **(A)** to open the **A**ctions menu.
3. Press **(D)** for **D**elete.
4. Press **(F5)** **Yes** to confirm deletion of files.

If the file has a lockword, a dialog box prompts you to type it.

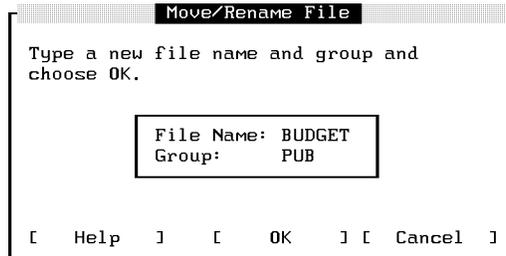
Caution It is important to remember that when you delete a file, you *cannot* get it back, except possibly from a backup tape.

To rename a file

You can rename any file that you created and that is in your logon account.

1. Select one file from the File Management screen.
2. Press **(F2)** **(A)** to open the **A**ctions menu.
3. Press **(M)** for **M**ove/Rename.

A dialog box prompts you for a file name and group. Your logon group is displayed.



4. Type a new file name.
5. Type a group name if you want the renamed file moved to a group other than your logon group.
6. Press **(F5) OK** to rename the file.

If the file has a lockword, a dialog box prompts you to type it.

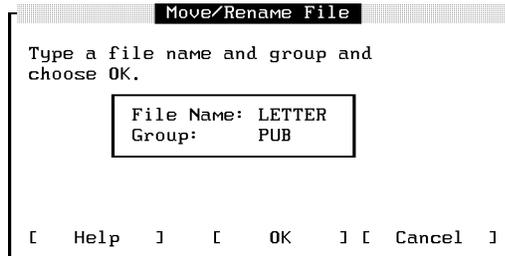
To move files

You can move files to and from other groups, but not to and from other accounts. You can only move files that you created and that are in your logon account.

To move one file to another group

1. Select one file from the File Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(M)** for Move/Rename.

A dialog box prompts you for a file name and group. Your logon group is displayed.



4. Type the file name. If you want to give the file a new name, type a new file name; otherwise, type the old file name.
5. Type a group name if you want to move the file to a group other than your logon group.
6. Press **(F5) OK** to move the file.

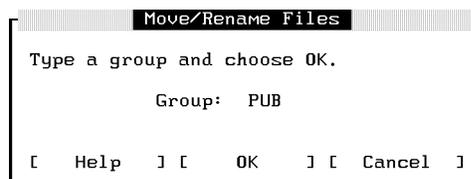
If the file has a lockword, a dialog box prompts you to type it.

To move multiple files to another group

When moving more than one file to another group, you cannot rename them at the same time.

1. Select files from the File Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(M)** for Move/Rename.

A dialog box prompts you for the new group. Your logon group is displayed.



4. Type a group name if you want to move the files to a group other than your logon group.
5. Press **(F5) OK** to move the file.

If any files have lockwords, a dialog box prompts you to type them.

To read the contents of a file

You can read the contents of any file that you created or that is released by the creator. You may also be able to read the contents of a secured file if you have read access as provided by MPE/iX security provisions.

1. Select one or more files from the File Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(R)** for Read.

If the file has a lockword, a dialog box prompts you to type it.

The first 15 lines of the file are displayed. You can use the scroll keys to browse through the contents of the file.

If you have selected several files to read, press **(F5) Read Next** to display the contents of the next selected file.

If the next selected file has a lockword, a dialog box prompts you to type it.

4. Press **(F8) Close** to close the file when you have finished reading.

To remove MPE/iX security from a file

You can remove MPE/iX security provisions from any file that you created. This means that users in any account can read, copy, delete, or print it.

1. Select one or more files from the File Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(L)** for Release.

If any files have lockwords, a dialog box prompts you to type them.

To add MPE/iX security to a file

If you previously removed MPE/iX security from a file, you can re-establish security provisions with this task. You can secure a file only if you created it. Files are automatically secured when they are created.

1. Select one or more files from the File Management screen.
2. Press (F2) (A) to open the Actions menu.
3. Press (E) for Secure.

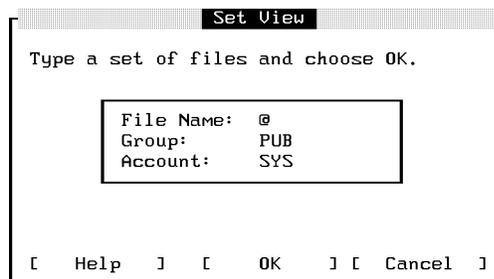
If any files have lockwords, a dialog box prompts you to type them.

To display a set of files

When you log on to HP Easytime/iX and go to File Management, you see all the files in your logon group and account. You may want to expand your view to include files in another group or to restrict your view to a smaller set of files for easier management.

1. Press (F2) (V) to open the View menu.
2. Press (V) for Set View.

A dialog box prompts you to type a set of files. The following example displays all files in the group PUB, in the account SYS.



3. Type the set of files that you would like to view. You can use wildcard characters to define a set of files.

4. Press **(F5) OK** to display the new view.

Only those files you that specified are now displayed on your screen. This new view lasts until you exit HP Easytime/iX or change the view again.

To reset the view

If you have set a view of files, you can quickly reset it to all the files in your logon group and account.

1. Press **(F2) (V)** to open the View menu.
2. Press **(R)** for Reset View.

To sort a list of files

You can define how files are *sorted* (order in which they are displayed) on the File Management screen. When you start HP Easytime/iX and go to File Management, files are first sorted alphabetically by account, and then by group and file name. You can change this so that files are first sorted, for example, by file name.

1. Press **(F2) (V)** to open the View menu.
2. Choose one of the following settings:

- sort by File Name
- sort by Group
- sort by Account

The files on your screen will be sorted according to the setting that you selected. An asterisk (*) appears in front of the selected setting. This setting is valid until you exit HP Easytime/iX or until you change the sort again.

Additional information about managing files is provided in the book *Task Reference* (B3813-90009).

7-22 Managing Print Files

Managing Print Files

Print files are files that users have requested for printing, but that have not yet printed. Because the printer can only process one file at a time, print files must be organized in a logical order (queued) when sent to the printer. HP Easytime/iX sorts print files according to their status and prints each in turn.

The menus at the top of the Print File Management screen contain all of the tasks necessary for managing your print files, including the following:

- checking the status of print files
- deleting a print file
- putting a print file on hold
- taking a print file off hold
- moving a print file to the top of the queue
- reading the contents of a print file
- changing the number of copies
- changing the printer
- reprinting a print file
- loading and aligning forms
- displaying a set of print files
- sorting print files

The Print File Management screen provides information about all pending print files on the system, including the following:

- name of the print file
- name of the user who created the print file
- name of the account
- printer on which the print file will be printed
- status of the print file
- number of copies requested

- approximate length (in pages) of the print file
- name of the required form (if available)

Print File Name	User	Account	Printer	Status	No. of Copies	Length (pages)	Forms
REPORT	MGR	SYS	LP	PRINTING	1	~ 1	
CHECKS	DAVID	FINANCE	LP	READY	2	~ 4	
BUSPLN	GORDON	MKT	LP	READY	1	~12	
BUDGET	CAROL	PAYROLL	LP	READY	1	~ 4	

Figure 7-3. Print File Management

To access Print File Management

1. Move the cursor to Print File Management on the Main menu.
2. Press either **(F3)**, **(Return)**, or **(Spacebar)**.

To check the status of print files

You can monitor printing on your system by checking the status field on the Print File Management screen.

The status of a print file can be any one of the following:

<u>This status</u>	<u>Means this</u>
CREATE	A print file is being created.
PRINTING	The print file is printing now.
READY	The print file is ready (waiting) to print.
ON HOLD	The print file has been put on hold. This means that the print file cannot print until you take it off hold.
LOAD FORM	The print file requires a special form (kind of paper). Because this print file is at the top of the print queue, all printing on this printer has stopped. You <i>must</i> load the form before printing can continue.
ALIGN FORM	The print file requires that you align the form before printing. Because this print file is at the top of the print queue, all printing on this printer has stopped. You <i>must</i> align the form before printing can continue.
PROBLEM	There is a problem with the printer. Check to make sure the printer is switched on, or check for a paper jam.
UNKNOWN	This status indicates a problem with the printing program. Contact your system administrator for assistance.

To delete a print file

If you no longer want a print file to print, you can delete it from the print queue.

1. Select one or more print files from the Print File Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(D)** for Delate.
4. Press **(F5) Yes** to confirm deletion of the print file.

To put a print file on hold

You can put a print file on hold to keep it from printing until you want it to.

1. Select one or more print files from the Print File Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(H)** for Put on Hold.

The status of the print file changes to **ON HOLD**.

To take a print file off hold

Once you put a print file on hold, it will not print until you take it off hold.

1. Select one or more print files with the status **ON HOLD**.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(O)** for Take off Hold.

The status of the print file changes to **READY**.

To move a print file to the top of the queue

If you need one or more print files printed quickly, you can move them to the top of the print queue. These files are then the next to be printed.

1. Select one or more print files from the Print File Management screen.
2. Press **(F2) (A)** to open the Actions menu.

7-26 Managing Print Files

3. Press **(N)** for Print Next.

To read the contents of a print file

You can read the contents of a print file while it is waiting in the print queue.

1. Select one or more print files from the Print File Management screen.
2. Press **(F2)** **(A)** to open the Actions menu.
3. Press **(R)** for Read.

If the first print file has a lockword, type it.

The first 15 lines of the print file are displayed. You can use the scroll keys to browse through the contents of the print file.

If you have selected several print files to read, press **(F5)** **Read Next** to display the contents of the next selected print file.

If the next selected print file has a lockword, type it.

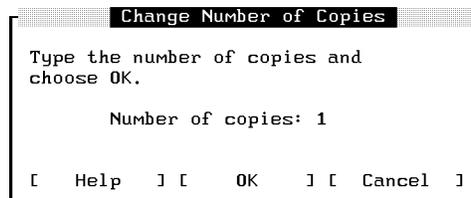
4. Press **(F8)** **Close** to close the print file when you have finished reading.

To change the number of copies of a print file

You can increase or decrease the requested number of copies for a print file with this task.

1. Select one or more print files from the Print File Management screen.
2. Press **(F2)** **(A)** to open the Actions menu.
3. Press **(C)** for Change No. of Copies.

A dialog box prompts you for the number of copies.



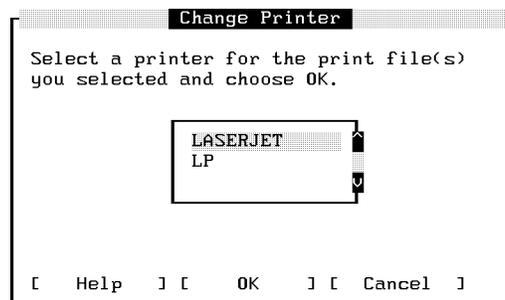
4. Type the number of copies that you want printed.
5. Press **(F5) OK** to change the number of copies.

To change the printer for a print file

You can route your print files to another printer with this task.

1. Select one or more print files from the Print File Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(P)** for Change Printer

A dialog box displays a list of available printers.



4. Select a printer from the list.
5. Press **(F5) OK** to change the printer.

7-28 Managing Print Files

To stop and restart printing of a print file

You can stop (interrupt) a file that is printing, and start printing again from the beginning. Use this task to recover after a paper jam.

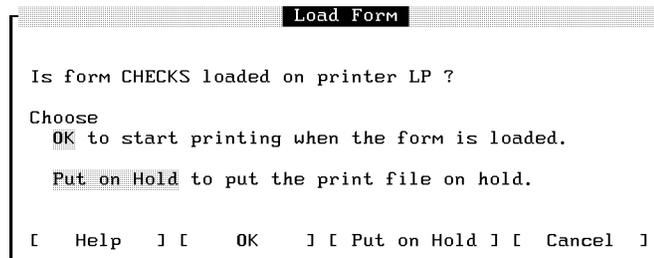
1. Select the print file that is *currently printing*.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(E)** for Reprint.

To load a form

Some print files need to be printed on a form or special kind of paper. When a form is needed, the status line on your screen displays the message: **LOAD FORM**. You *must* respond to the request before printing on this printer can continue.

1. Select a print file with the status **Load Form**.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(L)** for Load Form.

A dialog box displays information about the kind of form required.



4. Load the correct form in the printer.
Or, choose **Put on Hold** from the dialog box. In this particular case, you cannot use the **Actions** menu to put the form on hold.
5. Press **(F5) OK** when the form is loaded and you want to start printing.

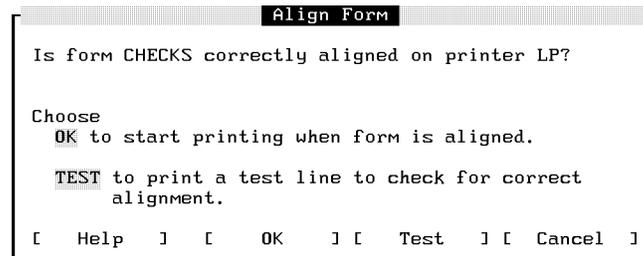
To align a form

Some print files that require a form also require that you align the form before printing. You would want to be sure that checks, for example, are correctly aligned before printing a large number of them.

When alignment of a form is needed, the status line on your screen displays the message: ALIGN FORM. You *must* respond to this request before printing on this printer can continue.

1. Select a print file with the status **Align Form**.
2. Press **(F2) (A)** to open the **A**ctions menu.
3. Press **(F)** for **A**lign **F**orm.

A dialog box prompts you to align the form.



4. Align the form in the paper tray.
Or, choose **Test** to first print a test line to check alignment.
5. Press **(F5) OK** to inform the system that the form is aligned.

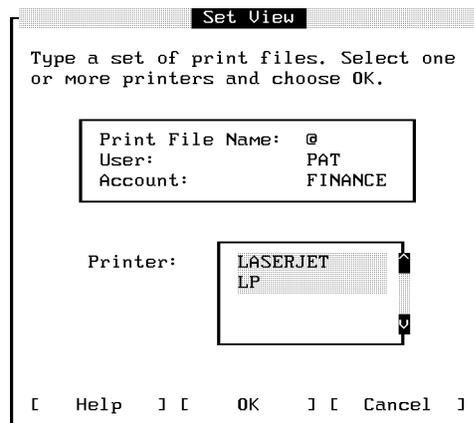
To display a set of print files

When you log on to HP Easytime/iX and go to Print File Management, you see all the print files under your logon name and account. You may want to expand your view to include print files in another account, or restrict it to a particular set of print files, for example, those on a specific printer.

7-30 Managing Print Files

1. Press **(F2) (V)** to open the View menu.
2. Press **(V)** for Set View.

A dialog box prompts you to type a set of print files. The following example displays all print files for user `PAT` in account `FINANCE`.



Setting a View of Print Files

3. Type the set of print files that you would like to view. You can use wildcard characters to define a set of print files.
4. Select one or more printers.
5. Press **(F5) (OK)** to display the new view.

Only those print files that you specified are now displayed on your screen. This new view lasts until you exit HP Easytime/iX or change the view again.

To reset the view

If you have changed your view of print files, you can quickly reset it to display all the print files under your logon name and account.

1. Press **(F2) (V)** to open the View menu.
2. Press **(R)** for Reset View.

To sort a list of print files

When you start HP Easytime/iX and go to Print File Management, print files are sorted on your screen by printer. You can change this to sort print files, for example, by print file name or by status.

1. Press (F2) (V) to open the View menu.
2. Choose one of the following settings:

```
sort by Print File Name
sort by User
sort by Account
sort by Printer
sort by Status
```

The print files on your screen will be sorted according to the setting that you selected. An asterisk (*) appears in front of the selected setting. This setting is valid until you exit HP Easytime/iX or change the sort again.

Managing Printers

All of the printers configured on your system are listed on the Printer Management screen. The menus at the top of Printer Management screen contain all of the options necessary for managing your printers, including the following tasks:

- checking the status of printer
- enabling a printer
- disabling a printer
- setting the printer outfence

To access Printer Management

You must be in system administrator mode to perform Printer Management tasks.

1. Move the cursor to **Printer Management** on the Main menu.
2. Press either **F3**, **Return**, or **Spacebar**.

The Printer Management screen provides information about all of the print devices on the system, including the following:

- name of the printer
- status of the printer (enabled or disabled)
- current outfence set for the printer

The following figure illustrates the Printer Management screen.

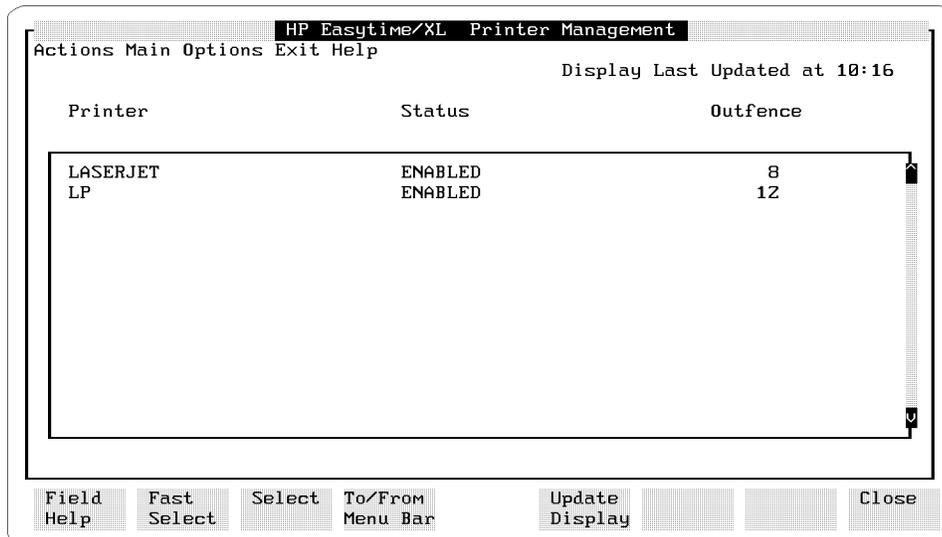


Figure 7-4. Printer Management

To check the status of a printer

You can check the status of printers on your system from the Printer Management screen.

The status of a printer can be any one of the following:

<u>This status</u>	<u>Means this</u>
ENABLED	The system administrator has enabled the printer. It is available for printing.
DISABLED	The system administrator has disabled the printer. If you route your print files to this printer, they will not print until the printer is enabled.
UNKNOWN	This status indicates a problem with the printer or printing program. Contact your system administrator for assistance.

To enable a printer

If you are the system administrator, you can enable a printer. This task activates a printer and makes it available for printing.

1. Select one or more printers from the Printer Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(E)** for Enable.

To disable a printer

If you are the system administrator, you can disable a printer. This task stops a printer and makes it unavailable for printing.

1. Select one or more printers from the Printer Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(D)** for Disable.

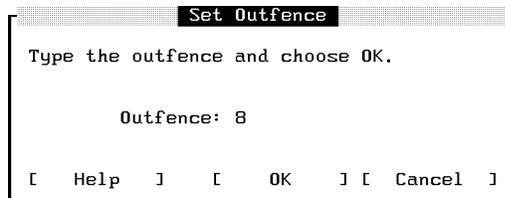
7-34 Managing Printers

To set the printer outfence

If you are the system administrator, you can set the printer outfence. By increasing the outfence, you can prevent files from printing. The outfence can be any value from 1 to 14. If the outfence is set at 5, for example, then only those print files with a priority of 6 or higher can print.

1. Select one or more printers from the Printer Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(O)** for Set Outfence.

A dialog box prompts you to type the new outfence.



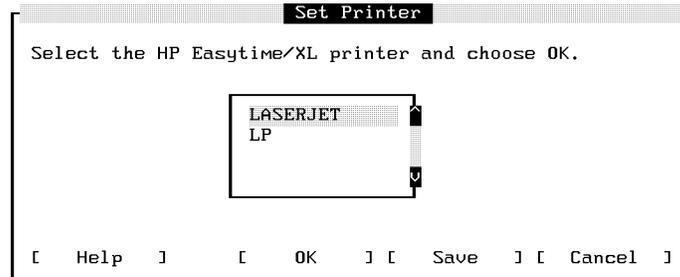
4. Type the outfence number.
5. Press **(F5) OK** to set the outfence.

To set the HP Easytime/iX printer

You can specify a printer for all printing initiated in HP Easytime/iX, for example, print files, listings of system errors, or backup reports. Unless saved by the system administrator, this setting is valid until you exit HP Easytime/iX.

1. Press **(F2) (O)** to open the Options menu.
2. Press **(P)** for Set Printer

A dialog box prompts you to select a printer.



3. Select a printer from the list.
4. If you are the system administrator, you can press **(F6) Save** to save this setting permanently.
Or, press **(F5) OK** to set the printer for this session only.

Managing Jobs

Much of the work that you do on the system can be accomplished with *jobs*. A job is a file that contains commands that you would normally type at the keyboard during an interactive session. When you start the job, the computer interprets and executes these commands automatically. No further user input is necessary.

HP Easytime/iX sorts jobs according to status and runs each in turn. These jobs are listed (queued) on the Job Management screen where you can manage them and monitor their progress.

The menus at the top of the Job Management screen contain all of the options necessary for managing your jobs, including the following tasks:

- checking the status of jobs
- starting jobs
- deleting jobs
- scheduling jobs
- putting jobs on hold
- taking jobs off hold
- suspending and resuming jobs
- moving a job to the top of the queue
- changing the status of jobs
- limiting the number of jobs
- setting the jobfence
- displaying a set of jobs
- sorting a list of jobs

The Job Management screen provides the following information about jobs on the system:

- name of the job
- name and account of the user under which the job is logged on
- name of the program that the job is running (if there is one)
- current status of the job
- date and time when the job started or is scheduled to start

The following figure illustrates the Job Management screen.

Job Name	User	Account	Program	Status	Start Date/Time
REPORTS	PAT	FINANCE	CI	ACTIVE	04/24/91 10:21 AM
UPDATE	KURT	MKTG	CI	ACTIVE	04/24/91 11:10 AM
MONTHEND	CHRIS	TESTING	CI	READY	04/24/91 11:40 AM

Figure 7-5. Job Management

To access Job Management

1. Move the cursor to Job Management on the Main menu.
2. Press either **F3**, **Return**, or **Spacebar**.

7-38 Managing Jobs

To check the status of jobs

You can monitor jobs on your system by checking the status field on the Job Management screen.

The status of a job can be any one of the following:

<u>This status</u>	<u>Means this</u>
ACTIVE	The job is running now.
READY	The job is ready and waiting to run. The maximum number of jobs that can run at one time has been reached. This job will run when one of the active jobs is finished.
SCHED	The job is scheduled to run at a later date and time. The start date and time is displayed on the Job Management screen.
ON HOLD	The job has been put on hold. A job that is on hold cannot run until you take it off hold.
SUSPEND	Someone has interrupted (suspended) this job while it was running. The task Resume can be used to start it again (from the place where it was stopped).

To start a job

When you start a job, you introduce it to the system.

1. Press **(F2)** **(A)** to open the Actions menu.
2. Press **(S)** for Start.

A dialog box prompts you for a job file name.

Start Job	
Type a job file name, group, and account. Type a start date and time if you are scheduling the job to run later. Choose OK to start or schedule the job.	
Job File Name: REPORT Group: PUB Account: SYS Lockword:	Start at Date: 05/12/91 (mm/dd/yy) Time: 10:00 pm (hh:mm xx) (xx=am/pm)
[Help]	[OK] [Cancel]

3. Type the name of the job file in the Job File Name field.

If the job file is in a group or account other than your logon group and account, type them.

If the file has a lockword, type it.

4. Press **(F5) OK** to start the job.

If the job accesses accounts, groups, or users that require passwords, HP Easytime/iX prompts you to type them.

To delete (abort) a job

If a job cannot continue because of an error, you may need to delete the job and restart. You can delete any active job, or job that is waiting in the job queue.

1. Select one or more jobs from the Job Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(D)** for Delete.
4. Press **(F5) Yes** to confirm deletion of jobs.

To schedule a job

You can schedule a job to run at a later date or time, for example, after you have gone home for the evening. If you have a job that updates a database, or other files, you can schedule it to run at night when the files are not being used.

1. Press **(F2) (A)** to open the Actions menu.
2. Press **(S)** for Start.

A dialog box prompts you for a job file name, start date, and time.

Start Job

Type a job file name, group, and account. Type a start date and time if you are scheduling the job to run later. Choose OK to start or schedule the job.

Job File Name: REPORT Group: PUB Account: SYS Lockword:	Start at Date: 05/12/91 (mm/dd/yy) Time: 10:00 pm (hh:mm xx) (xx=am/pm)
--	--

[Help] [OK] [Cancel]

3. Type the name of the job file in the Job File Name field.
If the job file is in a group or account other than your logon group and account, type them.
If the file has a lockword, type it.
4. Type the start date and time for the job.
5. Press **(F5) (OK)** to schedule the job.

The job appears in the job queue with a status of **SCHED** and starts at the scheduled date and time.

To put a job on hold

If a job in the job queue is not yet running, you can put it on hold to delay its running.

1. Select one or more jobs with a status of **Ready**.
2. Press **(F2) (A)** to open the **A**ctions menu.
3. Press **(H)** for **P**ut on **H**old.

The job appears in the job queue with a status of **ON HOLD** and does not start until you take it off hold.

To take a job off hold

If one or more jobs are on hold, you must take them off hold before they can run.

1. Select one or more jobs with the status **On Hold**.
2. Press **(F2) (A)** to open the **A**ctions menu.
3. Press **(O)** for **T**ake **o**ff **H**old.

The job appears in the job queue with a status of **ACTIVE** or **READY**.

To suspend a job

The task suspends (interrupts) a job in progress. If system resources are limited, you can speed up the processing of some jobs by suspending other, less critical jobs.

1. Select one or more jobs with the status **Active**.
2. Press **(F2) (A)** to open the **A**ctions menu.
3. Press **(P)** for **S**uspend.

The job stops, and its status changes to **SUSPEND**. The job does not continue until you resume processing.

To resume a suspended job

1. Select one or more jobs with the status **Suspend**.
2. Press **(F2) (A)** to open the **A**ctions menu.
3. Press **(R)** for **R**esume.

The job continues to run from the point where it was suspended.

To move a job to the top of the queue

If you are the system administrator, you can move a job to the top of the queue by changing the job status. It becomes the next job to run.

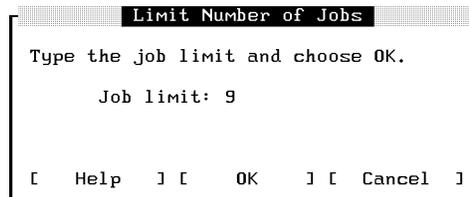
1. Select one or more jobs from the Job Management screen.
2. Press **(F2) (A)** to open the **A**ctions menu.
3. Press **(N)** for **R**un **N**ext.

To limit the number of jobs

If you are the system administrator, you can limit the number of jobs running at one time on the system. If the job limit is set at 5, only the first five jobs can begin processing. Subsequent jobs have a status of **READY** and wait in the job queue until one of the active jobs ends.

1. Press **(F2)** **(A)** to open the Actions menu.
2. Press **(L)** for Limit No. of Jobs.

A dialog box prompts you to type the job limit.



3. Type the number of jobs allowed to run concurrently.
4. Press **(F5)** **OK** to set the job limit.

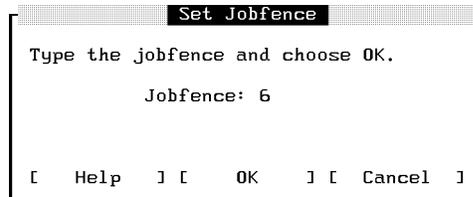
To set the jobfence

If you are the system administrator, you can restrict which jobs are allowed to execute.

The jobfence is the minimum priority level that a job must exceed in order to run. The jobfence can be any value from 0 to 14. If the jobfence is set at 8, for example, then only those jobs with a priority of 9 or higher can run.

1. Press **(F2)** **(A)** to open the Actions menu.
2. Press **(F)** for Set Jobfence.

A dialog box prompts you to type the jobfence number.



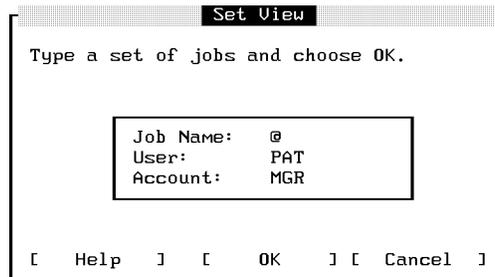
3. Type the jobfence.
4. Press **(F5)** **OK** to set the jobfence.

To display a set of jobs

When you log on to HP Easytime/iX and go to Job Management, you see all the jobs currently logged on to the system. You can restrict your view to a particular set of jobs, for example, those in a specific account.

1. Press **(F2)** **(V)** to open the View menu.
2. Press **(V)** for Set View.

A dialog box prompts you to type a set of jobs. The following example displays all jobs for user **PAT**, in account **MGR**.



3. Type the set of jobs that you would like to view. You can use wildcard characters to define a set of jobs.
4. Press **(F5) OK** to display the new view.

Only those jobs that you specified are now displayed on your screen. This new view will last until you exit HP Easytime/iX or until you change the view again.

To reset the view

If you have changed your view of jobs, you can quickly reset it to display all of the jobs on the system.

1. Press **(F2) (V)** to open the View menu.
2. Press **(R)** for Reset View.

To sort a list of jobs

When you start HP Easytime/iX and go to Job Management, jobs are sorted on your screen by status (the order in which they will run). You can change this to sort jobs, for example, by user.

1. Press **F2** **V** to open the View menu.
2. Choose one of the following settings:

sort by Job Name
sort by User
sort by Account
sort by Status

The jobs on your screen are sorted according to the setting that you selected. An asterisk (*) appears in front of the selected setting. This setting is valid until you exit HP Easytime/iX or change the sort again.

Managing Backups

Choosing a good backup plan and scheduling regular backups are important to the efficient operation of your system. Regularly scheduled backups reduce the time needed to perform backups and guarantee that the most recent information is always available to users.

If you are responsible for managing backups on your system, your responsibilities include the following:

- designing a backup schedule
- scheduling and performing regular backups
- storing and maintaining backup tapes

To access Backup Management

1. Move the cursor to **Backup Management** on the Main menu.
2. Press either **F3**, **Return**, or **Spacebar**.

The Backup Management screen displays the current backup schedule and provides a history of recent backups on the system including the following:

- kind of backup (full or partial)
- date the backup was performed

- number of tapes required for the backup
- device on which the backup was performed
- time needed to complete the backup

The following figure illustrates the Backup Management screen.

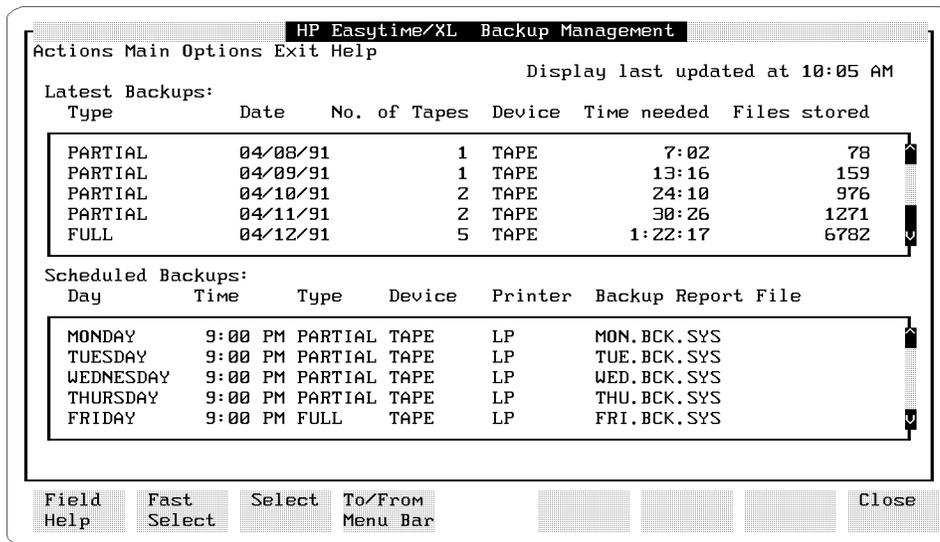


Figure 7-6. Backup Management

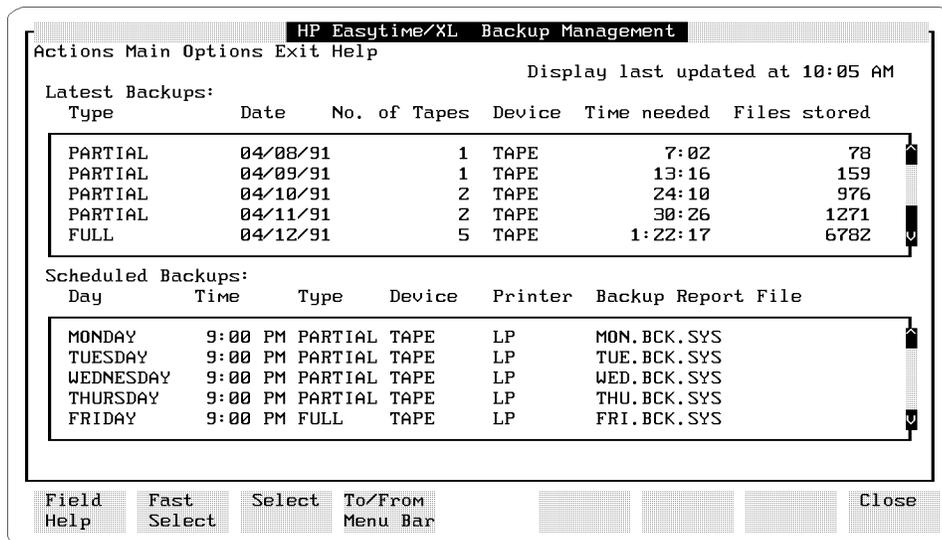
To design a backup schedule

You can perform two kinds of backups with HP Easytime/iX:

- full backups
- partial backups

A *full backup* copies all user files on the system whether or not the information has changed since the last full backup. A *partial backup* copies only those files that have changed since the last full backup. Your backup schedule should include both. A typical backup schedule allows for one full backup one day a week, and a partial backup on each remaining work day.

The following figure illustrates such a backup schedule on the Backup Management screen.



The screenshot shows a window titled "HP Easytime/XL Backup Management" with a menu bar containing "Actions Main Options Exit Help". The window displays two tables of backup information. The first table, "Latest Backups:", shows the most recent backup operations. The second table, "Scheduled Backups:", shows the recurring backup schedule. At the bottom of the window, there are several control buttons: "Field Help", "Fast Select", "Select", "To/From Menu Bar", and "Close".

Type	Date	No. of Tapes	Device	Time needed	Files stored
PARTIAL	04/08/91	1	TAPE	7:02	78
PARTIAL	04/09/91	1	TAPE	13:16	159
PARTIAL	04/10/91	2	TAPE	24:10	976
PARTIAL	04/11/91	2	TAPE	30:26	1271
FULL	04/12/91	5	TAPE	1:22:17	6782

Day	Time	Type	Device	Printer	Backup Report File
MONDAY	9:00 PM	PARTIAL	TAPE	LP	MON.BCK.SYS
TUESDAY	9:00 PM	PARTIAL	TAPE	LP	TUE.BCK.SYS
WEDNESDAY	9:00 PM	PARTIAL	TAPE	LP	WED.BCK.SYS
THURSDAY	9:00 PM	PARTIAL	TAPE	LP	THU.BCK.SYS
FRIDAY	9:00 PM	FULL	TAPE	LP	FRI.BCK.SYS

Figure 7-7. Backup Management Screen

If you use such a schedule, you will lose no more than 24 hours' worth of information should the system fail.

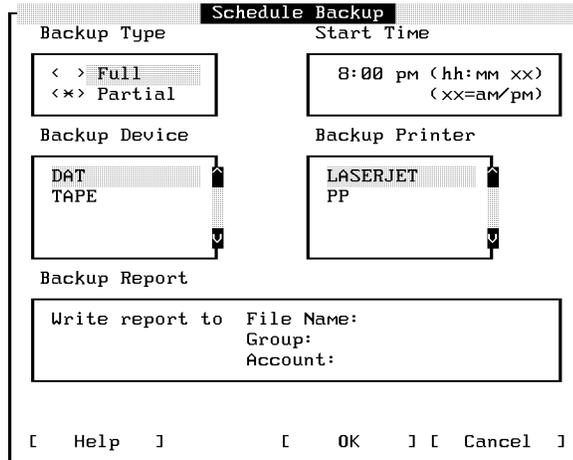
To schedule backups

With HP Easytime/iX, you can set up your backup schedule and then use the Backup Management screen to review backup information.

-
- Note** Your scheduled backup will start and complete automatically only under the following conditions:
- A write-enabled tape is loaded.
 - Your tape device is configured for autoreply. Refer to “Backing Up the System” in Chapter 6 and read the instructions for performing an unattended, scheduled backup.
 - The files to be backed up fit on one tape; otherwise, someone must load the next one.
-

Perform the following steps to schedule backups:

1. From the Backup Management screen, select one or more days of the week.
For example, Monday through Thursday.
2. Press **(F2)** **(A)** to open the **A**ctions menu.
3. Press **(S)** for **S**chedule Backup.
A dialog box prompts you for further scheduling information.



4. Choose the type of backup that you want (full or partial).
5. Type the time that you want the backup to start.

It is a good idea to schedule backups at the end of the workday when users are no longer using the system. Also, schedule the backup for the same time every day so that users know when to expect it and can plan accordingly.

6. Select a backup device.
7. Select a backup printer (for backup report).

If you want to save the backup report in a file, you have the option of entering a file name, group, and account where the report will be saved.

8. Press **(F5) OK** to schedule the backup.

When the scheduled backup starts, HP Easytime/iX sets the job and session limits to 1 to prevent any new sessions or jobs from starting.

To cancel a scheduled backup

You can cancel a scheduled backup at any time before it starts.

1. From the Backup Management screen, select one or more scheduled backups.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(D)** for Delete Scheduled Backup.
4. Press **(F5) Yes** to cancel the scheduled backup.

To perform backups

In addition to your regularly scheduled backups, you can perform a full or partial backup whenever needed. Before you start a backup, send a message warning users to log off the system, for example:

Backup will begin in 10 minutes. Please finish and log off.

1. Prepare your backup tapes and device.
See the reference information that you received with your tape drive.
2. Load the correct tape in the tape drive.
3. Press **(F2) (A)** to open the Actions menu.
4. Press **(F)** for Perform Full Backup.

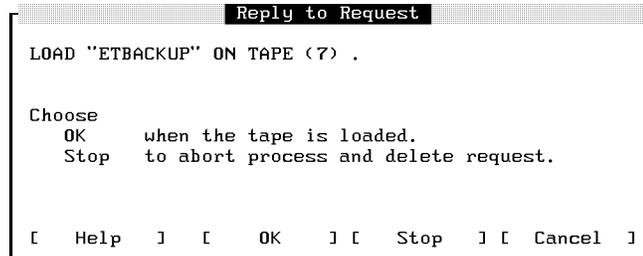
Or, press **(P)** for Perform Partial Backup.

If there are active jobs and sessions, a dialog box prompts you to confirm that you want to continue. Any files currently accessed by the active jobs and sessions are not backed up. Press **(F5) Yes** if you want to continue with the backup.

Once the backup begins, HP Easytime/iX sets the job and session limits to 1 to prevent any new sessions or jobs from starting.

Caution If your system is configured for autoreply, the backup starts immediately. Any files stored on the tape that you loaded will be lost.

If your system is not configured for autoreply, a dialog box prompts you for more information. For example:



Supply the requested information and press **(F5) OK** to continue with the backup.

Or, press **(F7) Stop** to stop the backup.

During the backup process, HP Easytime/iX displays a monitoring screen where you can check the progress of the backup. Do this by pressing **(F5) Update Display** periodically. During the backup process, you cannot use this terminal for anything else.

If the backup is progressing correctly, the monitoring screen displays the percent complete, for example:

```
STORE OPERATION IS 25% COMPLETE.
```

When the backup is finished, the following message is displayed:

```
Backup finished successfully. See report ETBUPLST.
```

When you see this message, the backup process is finished.

5. Press **(F8) Close** to close the monitoring screen.

To stop the backup process

1. Press **(F7) Stop**.
2. Press **(F5) Yes** to confirm.
3. Press **(F8) Close** to close the monitoring screen and go back to Backup Management.

It can take several minutes for the backup process to stop.

To verify backup information

HP Easytime/iX prints a backup report listing every file backed up and every file that the system was not able to back up. Be sure to check this report to verify that all files have been successfully saved on tape. You should keep this report with your tape.

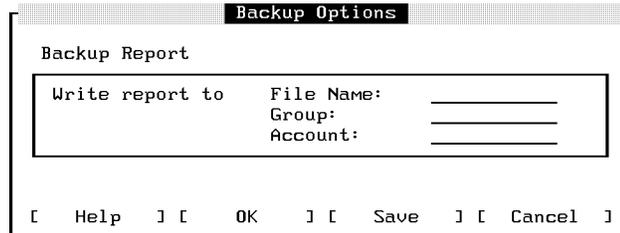
The name of the report file is **ETBUPLST**. You can view and read the contents of this file on the Print File Management screen. This file can be quite large and so the status is **ON HOLD**. Take the file off hold if you want to print it.

To set the backup options

You can specify special default options that apply when backing up files. If you are the system administrator, you can save these options permanently.

1. From the Backup Management screen, press **(F2) (O)** to open the **Options** menu.
2. Press **(B)** for **Set Backup Options**.

A dialog box prompts you for more information.



3. Type a file name, group, and account for the backup report. If the file does not exist, HP Easytime/iX creates it for you.
4. If you are the system administrator, you can press **F6** **Save** to save this setting permanently.

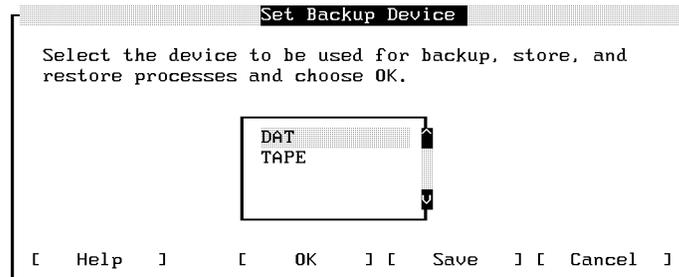
Or, press **F5** **OK** to save the backup options for this session only.

To set the backup device

You can specify the backup device to be used when performing backups or storing and restoring files. If you are the system administrator, you can save these options permanently.

1. From the Backup Management screen, press **F2** **O** to open the Options menu.
2. Press **D** for Set Backup Device.

A dialog box displays a list of available backup devices.



3. Select a device from the list.
4. If you are the system administrator, you can press **(F6) Save** to save this setting permanently.
Or, press **(F5) OK** to save the backup device for this session only.

Managing Console Messages

You can monitor the system from the Console Management screen and respond to requests from the system. The menus at the top of the Console Management screen contain all of the options necessary for managing your console messages and requests, including the following tasks:

- replying to requests
- printing messages and requests
- displaying a set of messages and requests

To access Console Management

1. Move the cursor to **Console Management** on the Main menu.
2. Press either **(F3)**, **(Return)**, or **(Spacebar)**.

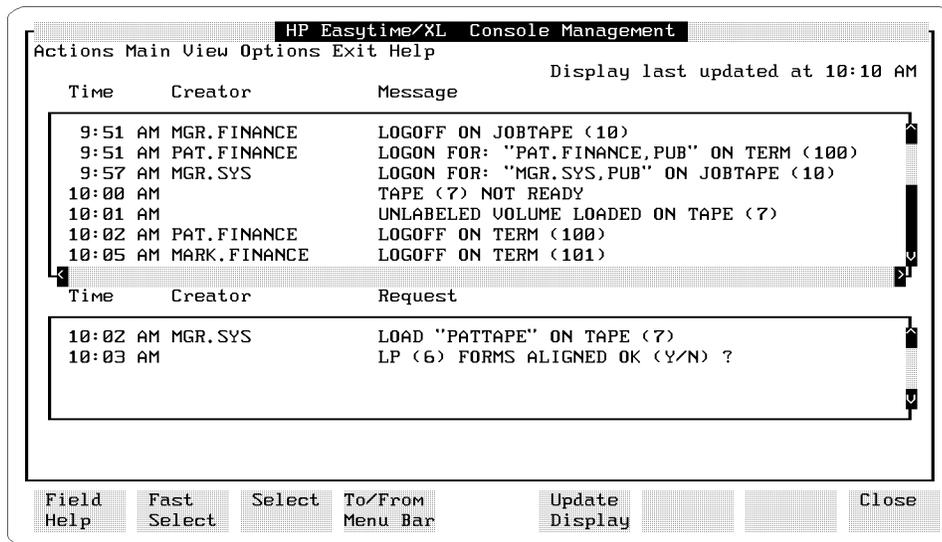
The Console Management screen displays the following information:

- messages from the system

7-56 Managing Console Messages

- requests that require a response
- time the request or message was sent
- creator of the request

The following figure illustrates the Console Management screen.



To move between requests and messages

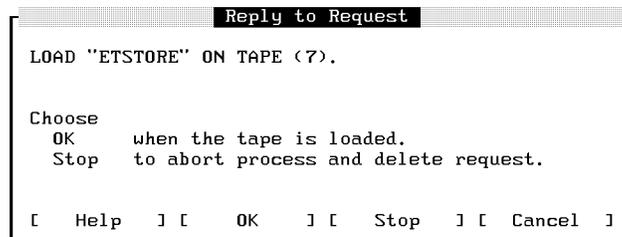
- Press **Tab**.

To reply to a request

Some tasks, for example, backing up the system or storing a file on tape, require additional user input after you start them. HP Easytime/iX prompts you to load or remove tapes as needed. These prompts are called *requests*.

1. Select one request from the Console Management screen.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(R)** for Reply to Request.

A dialog box displays the system request and prompts you to reply.



4. Read the request and follow the instructions on the screen.
5. Press **(F5) OK** to continue.

Or, press **(F8) Cancel** to postpone your reply until later.

Important

Some request dialog boxes have a **Stop** option. If you press **(F7) Stop**, you *abort* a task in progress (for example, backing up the system, or storing a file on tape) and delete the request from the system.

To print messages and requests

1. Press **(F2) (A)** to open the Actions menu.
2. Press **(P)** for Print Requests/Messages.

All messages and requests will be printed on the HP Easytime/iX printer.
The name of the print file is ETCO~~N~~LST.

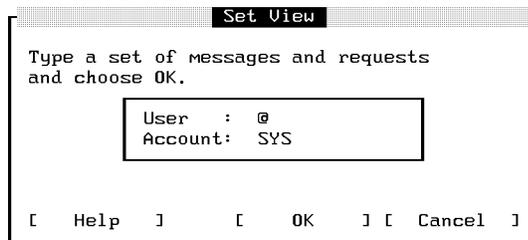
To display a set of console messages

When you log on to HP Easytime/iX and go to Console Management, you can read the last 1,000 messages that the system sent and any pending requests.

If you do not want to see all messages and requests on the system, you can restrict your view to a particular set of messages and requests, for example, those for a specific user or account.

1. Press **(F2) (V)** to open the View menu.
2. Press **(V)** for Set View.

A dialog box prompts you to type a set of messages. The following example displays messages and requests for all users in account **SYS**.



3. Type a set of user names and accounts. You can use wildcard characters to define the set.
4. Press **(F) OK** to display the new view.

Only those messages that you specified are now displayed on your screen. This new view lasts until you exit HP Easytime/iX or until you change the view again.

To reset the view

If you have set a view of messages and requests, you can quickly reset it to view all messages and requests on the system with this task.

1. Press **(F2)** **(V)** to open the View menu.
2. Press **(R)** for Reset View.

Customizing HP Easytime/iX

As the system manager, you can use the setup program to customize HP Easytime/iX. This program is optional. HP Easytime/iX arrives set up for you. You can use it as it is or change it to meet your particular needs.

This section explains how to use the setup program, including the following tasks:

- starting the setup program
- disabling and enabling functions
- choosing a startup screen
- canceling a startup screen
- setting defaults
- saving the setup file

To start the setup program

You need system manager capabilities to customize HP Easytime/iX with the setup program.

1. Log on to the system as `MANAGER.SYS`.
2. From the system prompt, type:

```
:RUN ETSETUP.PUB.SYS 
```

The HP Easytime/iX Setup screen is displayed. The following figure illustrates the setup screen.

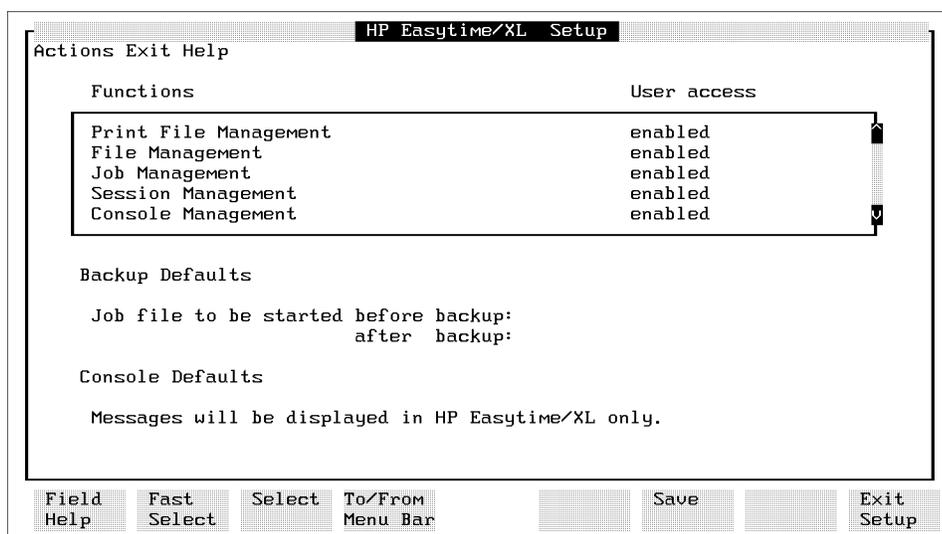


Figure 7-8. HP Easytime/iX Setup Screen

To disable a function

When you receive HP Easytime/iX, all functions are enabled and any user can access them. The setup screen displays a list box containing all of the HP Easytime/iX functions.

You can disable any function that you do not want users to access.

1. Select one or more functions.
2. Press (F2) (A) to open the Actions menu.

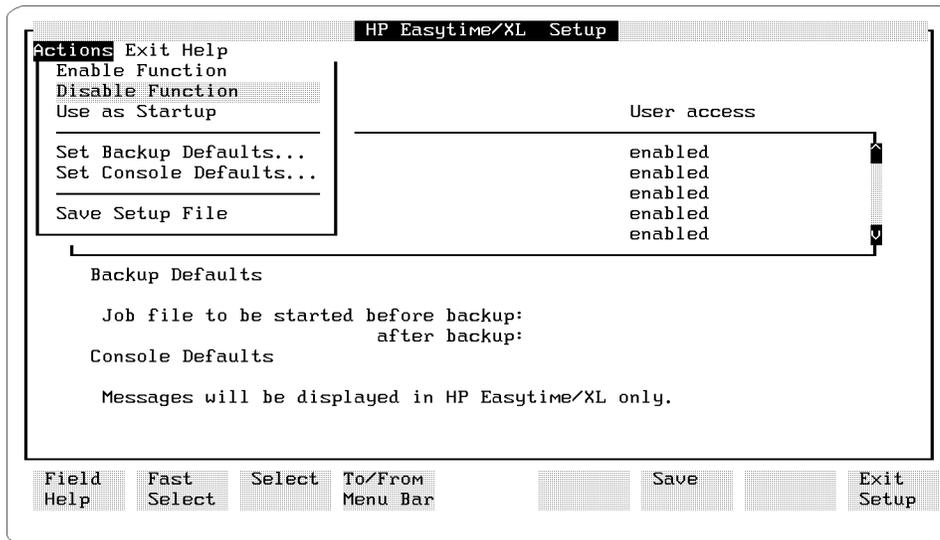


Figure 7-9. Actions menu

3. Press (D) for Disable Function.

To enable a function

You can use the setup program at any time to enable functions that you have disabled.

1. Select one or more functions.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(E)** for Enable Function.

To set backup defaults for scheduled backups

With this task, you can specify a job to run immediately before a scheduled backup and a job to run immediately after a scheduled backup.

For example, you can run a job that deletes (aborts) active sessions and specific jobs before a scheduled backup. After the backup, you can run another job that restarts the jobs and processes that you stopped previously.

1. Press **(F2) (A)** to open the Actions menu.
2. Press **(B)** for Set Backup Defaults.

A dialog box prompts you for more information.

Backup Defaults

Type the jobs that are to run before a scheduled backup begins, and after a scheduled backup finishes.

Start before backup	Start after backup
Job File Name: _____	Job File Name: _____
Group: _____	Group: _____
Account: _____	Account: _____

[Help] [OK] [Cancel]

3. Type the file name, group, and account of the job to start before the scheduled backup.

Use the **Tab** key to move from field to field.

4. Type the file name, group, and account of the job to start after the scheduled backup.
5. Press **F5** **OK** to set the backup defaults.

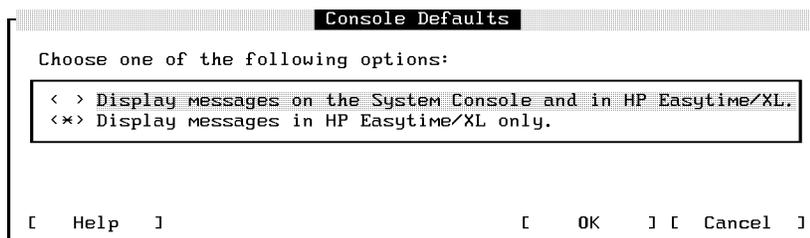
The backup defaults that you selected are displayed on the HP Easytime/iX Setup screen.

To set the default for console messages and requests

With HP Easytime/iX, you do not need a dedicated terminal to view and respond to console messages. You can monitor console messages from the Console Management screen within HP Easytime/iX.

You can display messages and requests on both the system console and in HP Easytime/iX, or in HP Easytime/iX only.

1. Press **F2** **A** to open the Actions menu.
2. Press **C** for Set Console Defaults.



3. Select the option that you want.

An asterisk (*) marks the selected option.

If you choose to display messages on both the system console and in HP Easytime/iX, you will not be able to use the system console for any other application, including HP Easytime/iX.

4. Press **F5** **OK** to set the console default.

7-64 Customizing HP Easytime/iX

The option that you selected is displayed on the HP Easytime/iX Setup screen.

To choose a startup screen

HP Easytime/iX is configured to display the **Main** menu when started. You can change this to display a different screen, for example, Print File Management, when starting the program.

1. Select one function.
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(U)** for Use as Startup.

This screen is marked (**Startup**) on the HP Easytime/iX Setup screen.

To cancel a startup screen

If you choose a screen as the startup screen for HP Easytime/iX, you can cancel it by enabling the function again.

1. Select the function marked (**Startup**).
2. Press **(F2) (A)** to open the Actions menu.
3. Press **(E)** for Enable Function.

This screen is no longer the startup screen, and the Main menu will be used instead.

To save the setup defaults

After you have completed customizing HP Easytime/iX, you must save the setup file.

1. Press **(F2) (A)** to open the Actions menu.
2. Press **(S)** for Save Setup File.

To exit the setup program

1. Press **(F8) Exit** to exit the HP Easytime/iX Setup screen.
2. Press **(F5) Yes** to confirm and exit.

Solving Problems

This section lists problems that you may encounter when working with HP Easytime/iX, possible causes for the problem, and steps for recovery.

To respond to print file problems

Problem	Print file is not printing.
Cause	Print file needs a form (or standard paper) loaded.
Action	Check the Print File Management screen for the name of the form, and load it on the printer. Perform the task Load Form to inform the system that form has been loaded.
Cause	Form needs alignment.
Action	Check to see that the form is correctly aligned, and perform the task Align Form from the Print File Management screen.
Cause	Print file has been put on hold.
Action	Perform the task Take off Hold from the Print File Management screen.

To respond to printer problems

Problem **Nothing is printing on a printer.**

Cause Printer is not ready.

Action Check the printer to make sure that it is plugged in, switched on, and online. Check for a paper jam, or check if paper needs to be loaded.

Cause Printer is not enabled.

Action The system administrator should enable the printer.

Cause Printer outfeed is set too high.

Action The system administrator should check the outfeed.

To respond to session problems

Problem **Terminal is not responding.**

Cause Various causes.

Action Delete session, and log on again.

Action Press **Shift** + **Reset**.

Problem **Screen display is corrupted.**

Cause Communication problem between terminal and computer.

Action Press **Clear display**.

Problem	User cannot type data in a field.
Cause	Input field is full and you are in insert mode.
Action	Press <i>Insert char</i> again to change to overwrite mode.

8

HP Easytime/iX Reference

This chapter provides reference information about the following topics:

- requests and messages from the system
- cursor movement, editing, selection, and function keys
- field definitions for each screen
- HP Easytime/iX options
- wildcard character sets

Requests and Messages from the System

This section provides a list of requests and messages that you may encounter when working with HP Easytime/iX. The three kinds of messages displayed in HP Easytime/iX are:

- requests prompting you for more information
- messages resulting from an error (requires a corrective action)
- messages about what is happening on the system

The following figure illustrates messages and requests as displayed on the Console Management screen.

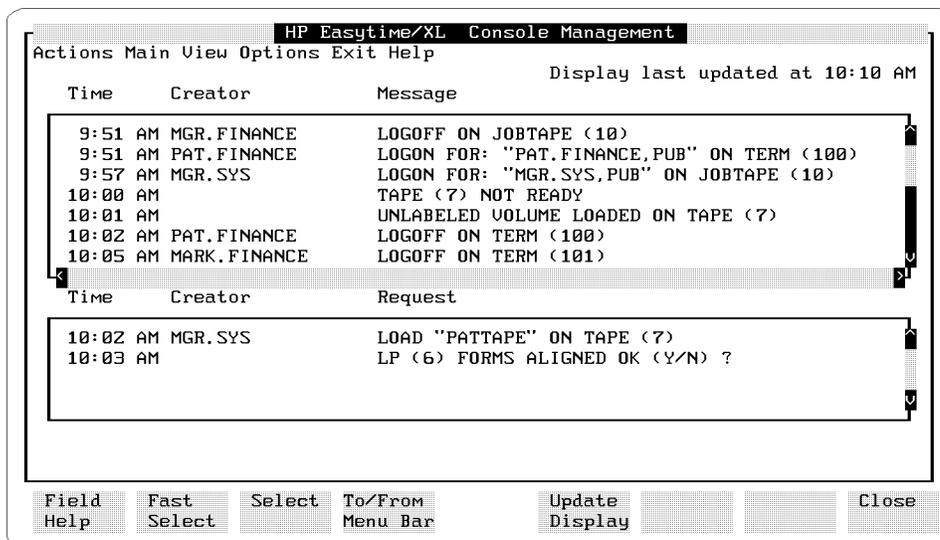


Figure 8-1. Messages and Requests

8-2 HP Easytime/iX Reference

To respond to requests

Requests are messages from the system that prompt you first to do something, and then to confirm your actions by replying, either from the Console Management screen or from a dialog box. You should respond immediately when there is a request pending on the system. A process or task, such as a backup, *cannot* continue until you supply the required information.

This section provides a list of common requests, causes for the request, and the required actions.

Request	<i>device (ldev n)</i> FORMS ALIGNED OK (Y/N) ?
Cause	This message occurs when a form has been loaded.
Action	Check to see that the form is correctly aligned, and perform the task Align Form from the Print File Management screen.
Request	<i>device (ldev n)</i> IS PAPER AT TOP OF FORM (Y/N?) ?
Cause	This message occurs at the beginning of a print job.
Action	Check to see that the paper is at the top of form and perform the task Align Form from the Print File Management screen.
Request	Is device (ldev n)WRITE ENABLED (Y/N) ?
Cause	This message occurs during a backup or when storing files to tape.
Action	Confirm that the tape is write enabled and reply to the request. You can store information only on a tape that is write enabled.

Request	LOAD <i>tape</i> ON <i>device (ldev n)</i> .
Cause	This message occurs during a backup, store, or restore process when you need to load a tape.
Action	Load the tape indicated in the correct tape drive, and reply to the request.
Request	SELECT DEVICE NO. OF CLASS <i>classname</i> ON WHICH YOU LOADED <i>tape</i> .
Cause	This request occurs during a backup, store, or restore process when you need to load a tape.
Action	Load the tape indicated in the correct tape drive and reply to the request.
Request	SP #ldev n IS #job number; file name ON device (ldev n) (Y/N)?
Cause	This request occurs when a print file requires a form or standard paper to be loaded.
Action	Check the Print File Management screen for the kind of paper required, and perform the task Load Form .

8-4 HP Easytime/iX Reference

To respond to messages

You can monitor messages to keep informed about activity on your system, for example, users or jobs logging on and off, disk storage, or other resource usage. Some messages are caused by an error and require a corrective action on your part.

This section provides a list of system messages. When the message is caused by an error, possible causes for the error and suggestions for recovery are also included.

Message	<i>device (ldev n)</i> IS NOT WRITE ENABLED.
Cause	This message occurs during a backup, or when storing or restoring files. It indicates that the tape is not write enabled.
Action	Enable the tape for writing.
Message	<i>device (ldev n)</i> MUST BE ONLINE BEFORE REPLYING.
Cause	This message occurs if the tape drive is not online during a backup, or when storing or restoring files.
Action	Set the tape drive online.
Message	<i>device (ldev n)</i> NOT READY.
Cause	This message occurs when there is a problem with a printer or tape drive.
Action	Check the device to make sure that it is plugged in, powered on, and online. If the device is a printer, check for a paper jam and that the printer is not out of paper.
Message	FORMS ON <i>device (ldev n)</i> : <i>forms message.</i>
Cause	This message occurs when a print file requires a form.

Action Check the Print File Management screen for the kind of form required and perform the task **Load Form**.

Message **LOGOFF ON** *device (ldev n)*.

Cause User or job indicated has logged off this device.

Action No action required.

Message **LOGON FOR:** *user,group.account ON device (ldev n)*.

Cause User or job indicated has logged on to this device.

Action No action required.

Message **LOAD MEDIA** *media n FOR RESTORE ON device (ldev n)*.

Cause This message occurs when restoring files from tape. Indicates that the end of the tape has been reached.

Action Load the next tape in the tape drive.

Message **LOAD NEXT MEDIA FOR RESTORE ON** *device (ldev n)*.

Cause This message occurs when restoring files from tape. Indicates that the end of the tape has been reached.

Action Load the next tape in the tape drive.

Message **LOAD MEDIA** *media n FOR STORE ON device (ldev n)*.

Cause This message occurs during a backup or when storing files to tape. Indicates that the end of the tape has been reached.

Action Load the next tape in the tape drive.

Message **LOAD NEXT MEDIA FOR STORE ON** *device (ldev n)*.

8-6 HP Easytime/iX Reference

Cause	This message occurs during a backup or when storing files to tape. Indicates that the end of the tape has been reached.
Action	Load the next tape in the tape drive.
Message	STANDARD FORMS ON <i>device (ldev n)</i> : <i>forms message</i> .
Cause	This message occurs when a print file requires a standard paper (after a form has printed).
Action	Load standard paper in the printer, and perform the task Load Form from the Print File Management screen.
Message	COMPLETE.
Cause	This message occurs during a scheduled backup and indicates the current status of the backup process.
Action	No action required.
Message	UNLABELED VOLUME LOADED ON <i>device (ldev n)</i> .
Cause	This message occurs when an unlabeled tape is loaded in the tape drive.
Action	No action required.
Message	VOLUME WITH LABEL <i>label</i> LOADED ON <i>device (ldev n)</i> .
Cause	This message occurs during a backup, store, or restore process when you use labeled tapes. Tape indicated is currently loaded on this tape drive.
Action	No action required. HP Easytime/iX cannot use labeled tapes.

Using the Keyboard

This section provides tables to identify the keys that you use when performing HP Easytime/iX tasks. The keys that you use will vary depending on the kind of terminal that you have.

Cursor movement keys

You can use the following keys to move in HP Easytime/iX:

<u>To scroll</u>	<u>Press these keys</u>
Up one line	▲
Down one line	▼
Up one page	Scroll Up or Shift + ▲
Down one page	Scroll Down or Shift + ▼
Right one page	Next
Left one page	Prev
To the top of the list	▼
To the bottom of the list	Shift + ▼

<u>To move in a dialog box</u>	<u>Press these keys</u>
To the next field	Tab
To the previous field	Shift + Tab
One character right	▶
One character left	◀

Editing keys

You can use any of the following keys to edit information that you are typing on the screen:

<u>To do this</u>	<u>Press these keys</u>
Go to insert mode	Insert char
Exit insert mode	Insert char again
Delete a character	Delete char
Delete one character to the left	Backspace
Delete all characters	Delete line
Delete all characters to the right	Clear line

Selection keys

You can use any of the following keys to select items:

<u>To do this</u>	<u>Press these keys</u>
Select one item	F3 , Return , or Spacebar
Cancel selection of one item	F3 , Return , or Spacebar
Select all items	F2 /
Cancel selection of all items	F2 \
Select first item in a range	F2 F3
Select last item in a range	F2 F3

Function Keys

This section describes the function keys used in HP Easytime/iX for the many tasks that you can perform. Both the function labels and the keys are listed. Not every function key is available on every screen or dialog box. The labels change according to the dialog box or screen where you are working; however, a function key label always refers to the same key wherever it appears.

<u>Pressing this key</u>	<u>Does this</u>
Add to List (F6)	In a dialog box, Add to List moves the indicated file to the list box.
Cancel (F8)	In a dialog box, Cancel cancels the task and closes the dialog box.
Close (F8)	On a screen, Close closes the active screen and displays the previous one. In a help window, Close closes the window.
Delete from List (F7)	In a dialog box, Delete from List deletes the selected file from the list box.
Fast Select (F2)	On a screen, Fast Select (and then an underlined letter) opens the corresponding menu. In a dialog box, Fast Select (and then an underlined letter) selects and activates a push button.
Field Help (F1)	In HP Easytime/iX, Field Help displays help about the current cursor object, for example, a data-entry field or a menu item.
No (F8)	In a confirmation box, No cancels a task and closes the box.
OK (F5)	In a dialog box, OK confirms and completes a task, and closes the dialog box.
Read (F5)	In a help window, Read displays help information about the selected topic.

Pressing this key

Read Next (F5)

Save (F7)

Select (F3)

Stop (F7)

Test (F6)

To/From Menu Bar (F4)

Update Display (F5)

Yes (F5)

Does this

In a file, **Read Next** displays the contents of the next selected file.

In a dialog box, **Save** saves the selected options.

In a list of values, **Select** selects the value on which the cursor rests.

In a dialog box, **Select** selects the push button on which the cursor rests.

In a menu, **Select** selects the menu item on which the cursor rests.

In a list box, **Select** and then **↵** selects all items in the list.

Select and then **⌫** cancels the selection of all items in the list.

In a dialog box, **Stop** stops a task in progress, for example, a backup.

In a dialog box (when aligning forms), **Test** prints a test line.

In HP Easytime/iX, **To/From Menu Bar** moves the cursor to or from the menu bar.

In a menu, **To/From Menu Bar** closes the menu and exits the menu bar.

In HP Easytime/iX, **Update Display** updates the terminal display with the most current data. The time of the last update is always displayed on the status line of your screen.

In a confirmation box, **Yes** confirms and completes a task, and closes the box.

Defining HP Easytime/iX Screens

This section illustrates and provides field names and definitions for the following HP Easytime/iX screens:

- Session Management
- File Management
- Print File Management
- Printer Management
- Job Management
- Backup Management
- Console Management

Session Management

This section illustrates and defines the fields that are displayed on the Session Management screen and that you encounter when performing Session Management tasks.

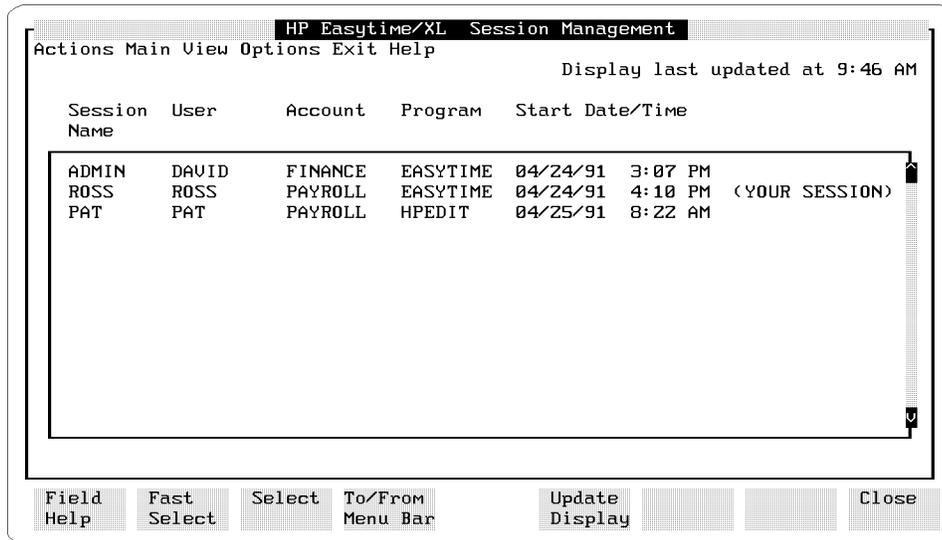


Figure 8-2. Session Management Screen

<u>Field name</u>	<u>Means this</u>
Session Name	Name of the session. This can be specified when logging on.
User	Name of the user who started the session.
Account	Logon account of the user who started the session.
Program	Name of the program that the session is running (if there is one).
Start Date/Time	Date and time when a session started.

File Management

This section illustrates and defines the fields that are displayed on the File Management screen and that you encounter when performing File Management tasks.

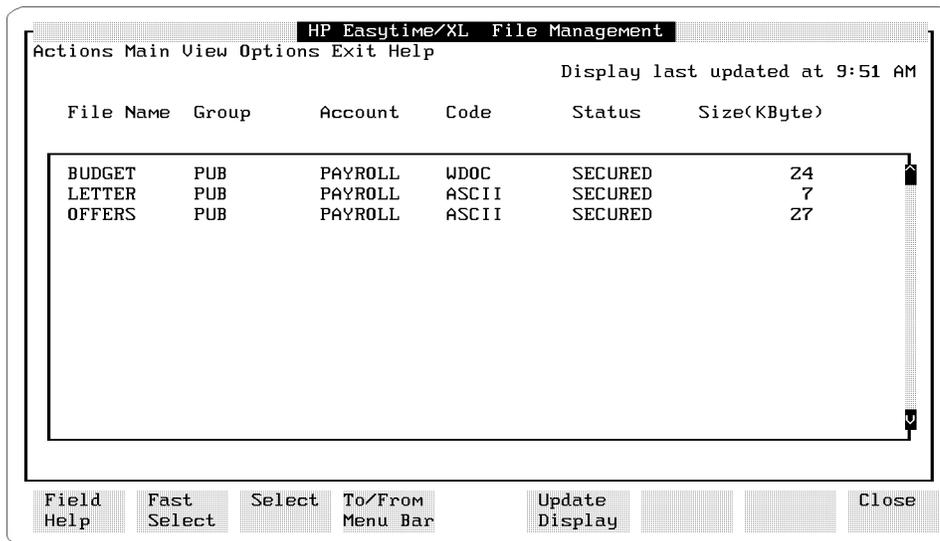


Figure 8-3. File Management Screen

<u>Field name</u>	<u>Means this</u>
File Name	Name of the file. A file name can contain a maximum of eight alphanumeric characters and must begin with a letter.
Group	Group where the file is located. Files located in the PUB group are usually files that all users share. Files in other groups are often private files for users in the group only.

Field name

Means this

Account

Account where the file is located.

Code

Indicates the kind of file, for example, ASCII or WDOC.

Status

Shows current file security (whether file is secured or released).

Size

Shows size of the file in kilobytes. If a file is smaller than one kilobyte, <1 is displayed.

Print File Management

This section illustrates and defines fields that are displayed on the Print File Management screen and that you encounter when performing Print File Management tasks.

Print File Name	User	Account	Printer	Status	No. of Copies	Length (pages)	Forms
REPORT	MGR	SYS	LP	PRINTING	1	~ 1	
CHECKS	DAVID	FINANCE	LP	READY	2	~ 4	
BUSPLN	GORDON	MKT	LP	READY	1	~12	
BUDGET	CAROL	PAYROLL	LP	READY	1	~ 4	

Figure 8-4. Print File Management

<u>Field name</u>	<u>Means this</u>
Print File Name	Name of the file to be printed.
User	User who created the print file.
Account	Logon account of the user who created the print file.
Printer	The identification name or number of the printer where the files will be printed.

<u>Field name</u>	<u>Means this</u>
Status	The status of a print file may be any one of the following:
CREATE	The print file is being created.
PRINTING	The print file is currently printing.
READY	The print file is ready (waiting) to print.
ON HOLD	The print file is on hold. Cannot print until you take it off hold.
LOAD FORM	A form is required and must be loaded before printing on this printer can continue.
ALIGN FORM	A form has been loaded and requires alignment.
PROBLEM	There is a problem with the printer or with a print file. Check to make sure that the printer is switched on, or check for a paper jam.
UNKNOWN	Cause of the problem is unknown. Contact your system administrator for assistance.
No. of Copies	Shows number of copies that will be printed.
Length	Shows the approximate length (in pages) of each print file.
Forms	Indicates the name of the form, if one is required.

Printer Management

This section illustrates and defines the fields that are displayed on the Printer Management screen and that you encounter when performing Printer Management tasks.

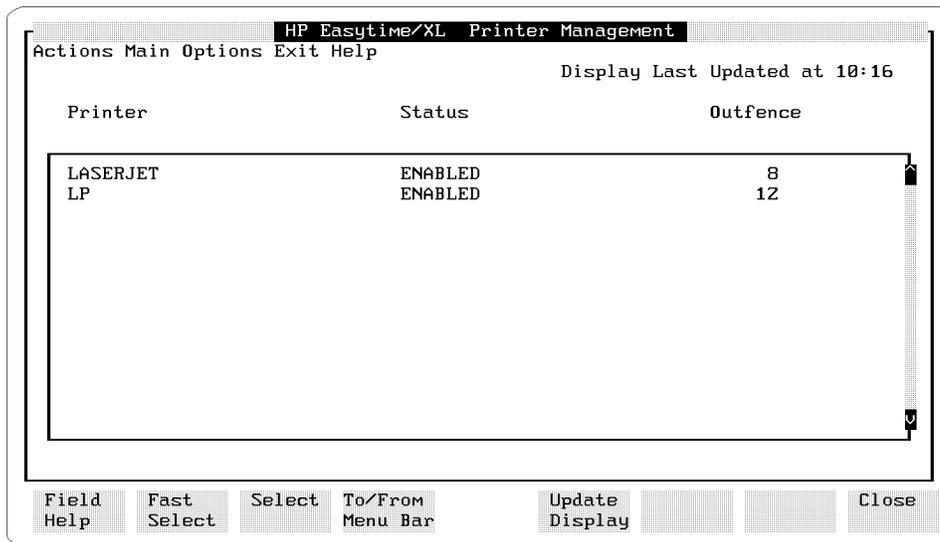


Figure 8-5. Printer Management Screen

<u>Field name</u>	<u>Means this</u>
Printer	Identification name of the printer. Usually, each printer has one name assigned to it. In some cases, several printers may be grouped together under one name.
Status	Printer status can be any one of the following:
ENABLED	The system administrator has enabled the printer. It is available for printing.
DISABLED	The system administrator has disabled the printer. If your print files are routed to this printer, they do not print until the printer is enabled.

Field name

UNKNOWN

Outfence

Means this

Cause of problem is unknown. Contact your system administrator for assistance.

The outfence is a number assigned to each printer on the system by the system administrator. The outfence is the minimum priority that a print file must exceed in order to print.

The outfence can be any value from 1 to 14. If the outfence is set at 5, for example, only those print files with a priority of 6 or higher can print. By adjusting the outfence higher or lower, the system administrator can control printing on specific printers.

Job Management

This section illustrates and defines the fields that are displayed on the Job Management screen and that you encounter when performing Job Management tasks.

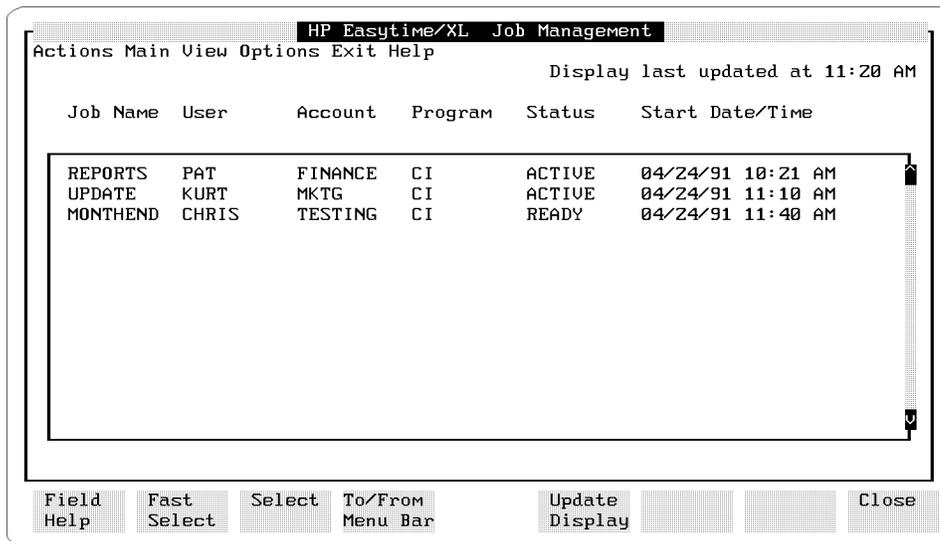


Figure 8-6. Job Management Screen

<u>Field Name</u>	<u>Means this</u>
Job Name	An identification name given to each job when it is started or scheduled.
User	User name under which the job is logged on.
Account	Account under which the job is logged on.
Program	The name of the program that the job is running (if there is one).

<u>Field name</u>	<u>Means this</u>
Status	The status of a job can be any one of the following:
ACTIVE	The job is running now.
READY	The job is ready (waiting) to run.
SCHED	The job is scheduled to run at a later date and time.
ON HOLD	The job has been put on hold. It does not run until you take it off hold.
SUSPEND	Someone has suspended (interrupted) this job while it was running. It does not run until you resume processing.
Start Date/Time	Date and time a job started, or is scheduled to start.

Backup Management

This sections illustrates and defines the fields that are displayed on the Backup Management screen and that you encounter when performing Backup Management tasks.

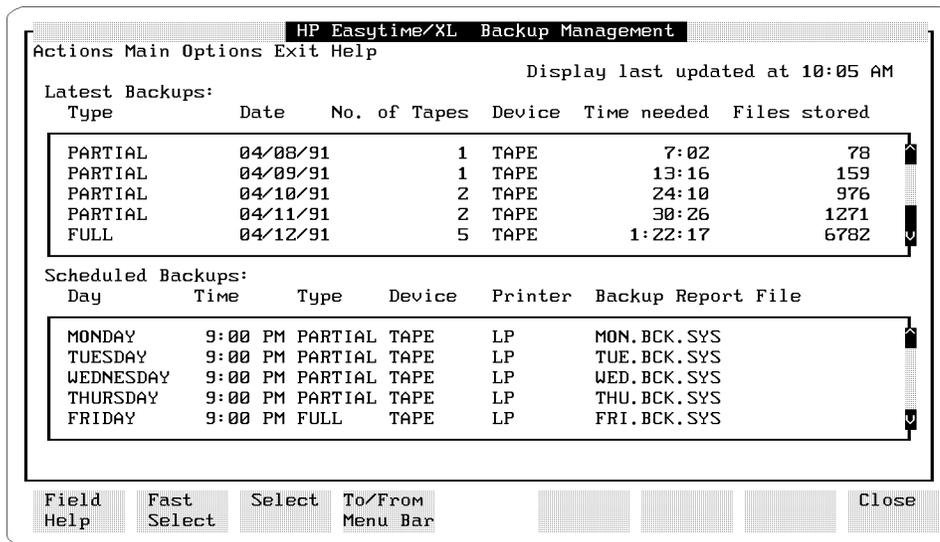


Figure 8-7. Backup Management Screen

<u>Field name</u>	<u>Means this</u>
Type	Type of backup (full or partial).
Date	Date that the backup was performed.
No. of Tapes	Number of tapes needed to complete the backup.
Device	Tape drive on which the backup was performed.
Time Needed	Time needed to complete the backup.
Files Stored	Number of files stored during the backup.

Field name

Means this

Day

Day of the week a backup is scheduled.

Time

Time a backup is scheduled.

Printer

Printer where the backup report will be printed.

Backup Report File

Name of the file for the backup report.

Console Management

This section illustrates and defines the fields that are displayed on the Console Management screen and that you encounter when performing Console Management tasks.

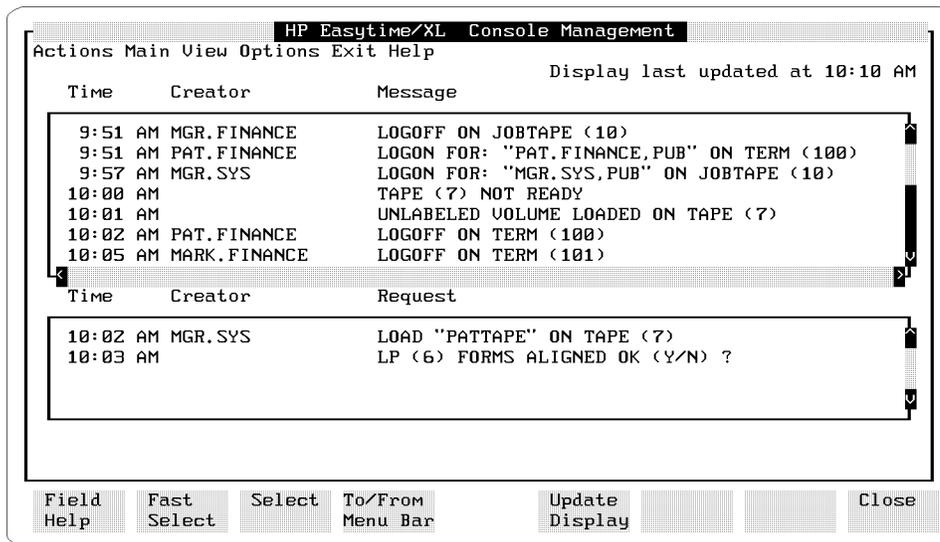


Figure 8-8. Console Management Screen

<u>Field Name</u>	<u>Means this</u>
Time	Time when the system sent the message or request.
Creator	The name and logon account of the user whose session or job created the message or request. If a message is sent from the system, the creator field is blank.
Message	Messages about what is happening on the system.
Request	Requests from the system that require a response.

Specifying HP Easytime/iX Options

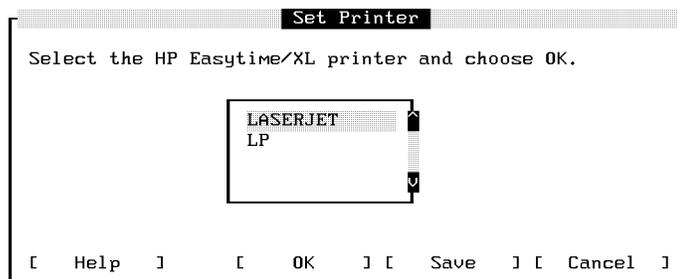
With the `Options` menu, you can set defaults that apply when backing up the system, storing and restoring files, or printing, including the following:

- setting the HP Easytime/iX printer
- setting store options
- setting restore options
- setting the backup device

The system administrator can save the option settings permanently. Unless saved, options are valid until you exit HP Easytime/iX or change the settings again.

Set printer option

You can access the `Set Printer` option from the `Options` menu on every HP Easytime/iX screen.



Set Printer

Sets the default printer for all printing initiated in HP Easytime/iX, for example, print files, listings of system errors, or backup reports.

Set store options

You can access **Set Store Options** from the **Options** menu on the File Management screen. There are three options you can set for storing files to tape:

- Save the store report on disk.
- Produce an MPE V/E-compatible tape.
- Store directory information with files.

```
Store Options
-----
Store Report
Write report to  File Name:
                  Group:
                  Account:

You can choose one of the following options.
[ ] Produce a tape which is compatible to MPE V/E.
[ ] Store directory information.

[ Help ] [ OK ] [ Save ] [ Cancel ]
```

Store Report

You can specify a file name, group, and account for the store report. This report is saved on disk.

Produce a tape which is compatible to MPE V/E.

This option produces a tape that can be read by an MPE V/E system. This is the previous version of your current operating system.

Store directory information.

This option creates a tape with all of the files that you selected, as well as their directory information (accounts, groups, and users).

Set restore options

You can access **Set Restore Options** from the **Options** menu on the **File Management and Backup Management** screens. There are five options you can set for restoring files from tape:

- Save the report file on disk.
- Do not overwrite files on disk.
- Create account, groups, and users if needed.
- Restore files to your logon group and account.
- Restore directory information with files.

Restore Options

Restore Report

Write report to File Name:
Group:
Account:

Restore options

Do not overwrite files on disk.
 Create accounts, groups, users as needed.
 Restore files to logon group and account.
 Restore directory information.

[Help] [OK] [Save] [Cancel]

Restore Options

Restore Report

You can specify a file name, group, and account for the restore report. This report is saved on disk.

Do not overwrite files on disk.

This option prevents overwriting of files on disk. If a file on tape has the same name as a file on disk, it is not restored.

Create accounts, groups, users as needed.

This option creates accounts, groups, and users if they are needed for the files being restored.

Restore files to logon group and account.

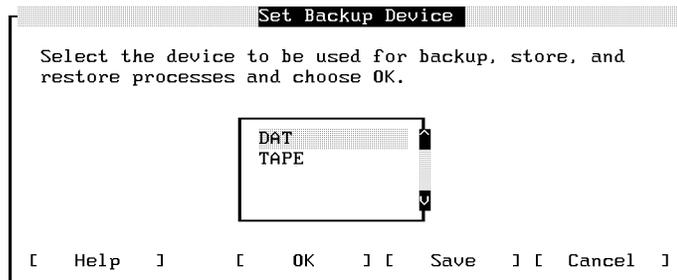
This option restores all of the selected files to your logon group and account.

Restore directory information

This option restores directory information (accounts, groups, users) to disk, along with the files that you selected.

Set backup device option

You can access the **Set Backup Device** option from the **Options** menu on the File Management and Backup Management screens.

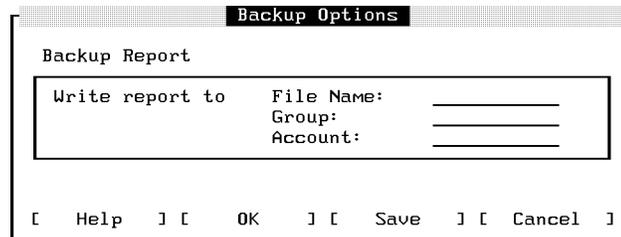


Set Backup Device

Sets the backup device for backups and for storing and restoring files.

Set backup options

You can access the **Set Backup Options** from the **Options** menu on the File Management and Backup Management screens.



Set Backup Options

You can specify a file name, group, and account for the backup report. This report is saved on disk.

Understanding and Using Wildcard Characters

Wildcard characters represent groups of other characters. You can use them in place of actual characters when specifying any of the following:

- file names
- user names
- account names
- group names

The following wildcard characters may be used in HP Easytime/iX:

<u>This character</u>	<u>Represents</u>
@	Any number of alphanumeric characters. Alone it means “all”.
?	One alphanumeric character.
#	One number.

Examples:

To display all file names

```
File Name: @
```

To display all file names beginning with T

```
File Name: T@
```

To display all file names beginning with T followed by four numbers

```
File Name: T####
```

To display all files for group FINANCE

```
File Name: @
Group:     FINANCE
Account:   @
```

A

Preparing Additional Software Products for Use

Setting Up Additional Software Products

Your system may have additional software products that require special set up attention. You must do this from `MANAGER.SYS`. To determine if your system has additional products, follow these steps:

1. To see if you are in `MANAGER.SYS`, type:

```
: SHOWME 
```

```
USER: #S9749, MANAGER.SYS, PUB
RELEASE: v.uu.ff MPE/iX HP31900 v.uu.ff
CURRENT: Day, Month, Year, Time
LOGON: Day, Month, Year, Time
CPU SECONDS: 2 CONNECT MINUTES: 1
$STDIN LDEV: 32 $STDLIST LDEV: 32
```

Your screen displays information about your logon identity on the first line to let you know if you are currently in `MANAGER.SYS`.

If you are not in `MANAGER.SYS`, use the `HELLO` command to log on as `MANAGER.SYS`.

```
:HELLO MANAGER.SYS 
```

2. At the system prompt (`:`), enter the `LISTFILE` command to find out if the file `SPNAMES` exists on your system.

```
:LISTFILE SPNAMES 
```

If no file is found, you have not purchased any of the software that requires special set up attention, and you can proceed to the next chapter.

3. If a file is found, enter the following command to display the contents of the file to the screen. Write down the names of these products.

```
:PRINT SPNAMES Return
```

installing HP DeskManager

The following products need additional steps to be performed before they are fully functional. Your Hewlett-Packard Customer Engineer (CE) will complete the installation of these products for you. Please contact this CE for assistance.

Installing HP DeskManager

The HP DeskManager software is now installed on your system; however, before attempting to use the product, there are some steps that must be completed.

- You must create and configure your databases. Refer to chapters 8 and 9 of the *HP DeskManager Administration Manual* (36570-90134) for details on how to do this.
- The following UDC files are supplied with HP DeskManager:

```
OPERUDC.MAILLIB.HPOFFICE - this holds the operator commands  
MAILUDC.MAILLIB.HPOFFICE - this holds the user commands
```

The level at which these UDCs are set depends upon the guidelines followed at your site; however, Hewlett-Packard recommends setting the operator commands at the user level for the user MGR.HPOFFICE. To do this, enter the following commands:

```
:HELLO MGR.HPOFFICE,MAILLIB  
:SETCATALOG OPERUDC.MAILLIB.HPOFFICE
```

Remember to include all other UDCs that are to be set at the same level in the SETCATALOG command.

The following three items may apply to your system. Please read them and follow the instructions, if they are applicable.

A-2 Preparing Additional Software Products for Use

- The American version of the product is supplied as default; however, if a British version is to be installed, enter the following command:

:STREAM UKDICT.MAILJOB.HPOFFICE

- If you are running HP DeskManager on a *standalone* system and Distributed Systems (DS) or Network Services (NS) are NOT installed, enter the following command:

:STREAM DSNSSEGS.MAILJOB.HPOFFICE

- It is possible to improve the performance of HP DeskManager by creating an Object Code Translated (OCT) version. Read the file OCTINSTL.MAILJOB.HPOFFICE for detailed instructions on how to perform this translation.

Installing HP ALLBASE/4GL

To complete the installation of HP ALLBASE/4GL some additional steps must be performed.

These installation procedures must be completed on a terminal other than the system console. HP ALLBASE/4GL cannot be run on the system console.

To install new HP ALLBASE/4GL systems

To complete the installation of the HP ALLBASE/4GL Developer system or the HP ALLBASE/4GL Run-Time Environment, perform the following steps after the AUTOINST utility has run.

1. Create the account in which you want to use HP ALLBASE/4GL. You can select any name for the account, but we suggest that you use the name HP4GL for the HP ALLBASE/4GL Developer System, and HP4GLR for the HP ALLBASE/4GL Run-Time Environment.

Developer

```
:HELLO MANAGER.SYS  
:NEWACCT HP4GL,MGR;PASS=password;CAP=AM,AL,GL,ND,SF,BA,IA,PH
```

or

Run-Time

```
:HELLO MANAGER.SYS  
:NEWACCTHP4GLR,MGR;PASS=password;CAP=AM,AL,GL,ND,SF,BA,IA,PH
```

2. Log on to the new account and execute the following command file:

Developer

```
:HELLO MGR.HP4GL  
:HP4BLD.HP4GL.SYS
```

or

Run-Time

A-4 Preparing Additional Software Products for Use

```
:HELLO MGR.HP4GLR
:HP4BLDR.HP4GLR.SYS
```

HP4BLD (or HP4BLDR) will create several groups within the account. After the groups are created, the utility copies several files from the SYS account into the newly created groups.

To install the HP ALLBASE/4GL environment

The default HP ALLBASE/4GL installation assumes that the MPE/iX system is configured to support the “American” language as well as the “native computer” language. Refer to the *Localizing and Customizing Systems Information Reference Manual* (32650-90046) for more information on localization on your systems.

To run HP ALLBASE/4GL on a terminal that supports the line-drawing character set, set the MPE/iX variable HP4TERM as follows:

```
:SETVAR HP4TERM "HPL"
```

Refer to the *HP ALLBASE/4GL Developer Administration Manual* (30601-64001) or the *HP ALLBASE/4GL Run-Time Administration Manual* (30602-64001) for further information on setting up the HP ALLBASE/4GL environment.

HP ALLBASE/4GL is now ready to be run.

Installing SNA IMF/XL

You must perform some additional steps before SNA IMF/XL (HP30293) is fully functional. Follow the steps below using the TTSINST command file to complete the installation. You can also access the online instructions by typing TTSINST.PUB.SYS at the colon prompt without specifying any parameters.

To install the English language option for the United States and European sites type the following commands:

```
:HELLO MANAGER.SYS
:TTSINST 000
```

Confirm that you want to complete the installation:

```
SNA IMF> Begin installing the English option (Y/N)? Y
SNA IMF> The English language option is now installed.
```

To install the Asian language option, type the following commands:

```
:HELLO MANAGER.SYS
:TTSINST
```

Read the instructions that appear on your screen, then enter the following:

```
:TTSINST 221      ** 221 is the language option parameter **
```

Confirm that you want to complete the installation:

```
SNA IMF> Begin installing the Japanese option (Y/N)? Y
SNA IMF> The Japanese language option is now installed.
```

Installing HP Predictive Support

If you have purchased HP Predictive Support for the first time, your Hewlett-Packard Customer Engineer will assist you with the installation and supply you with the *HP Predictive Support User's Guide* (50779-90001).

Installing NewWave Office Products

NewWave Office products include HP DeskManager, HP Resource Sharing, and HP Information Access. Instructions for installing HP Information Access and HP Resource Sharing are listed below. Instructions for installing HP DeskManager are found in the beginning of this chapter.

To install HP Resource Sharing

Caution If you attempt to connect a PC to shared resources before you complete the steps listed above, you will have to restart the system and perform these steps again. The message “Resource Sharing Registration Completed” must appear on the console before you can connect a PC to shared resource.

1. License information from the NewWave Office Software Certificate must be recorded on the system before connections to shared resources can be allowed. You do not need to record this information again if you have recorded it previously, and it has not changed.

If you need to update license information, or are recording it for the first time, please refer to the “Installation” chapter in the *NewWave Office Resource Sharing for MPE XL Manual* (32597-90082). The “Installation” chapter provides the instructions for recording license information from the software certificate with the `NWOLC.PPC.SYS` program.

2. Stream `JPDINSTL.NWOCNF.HPOFFICE` to complete the installation. Watch for the console message, “Resource Sharing Registration Completed” to verify that HP Resource Sharing is ready to receive connection requests from PCs.
3. If you have HP Information Access, continue below.

To install HP Information Access

Please refer to the *HP NewWave Office Information Access Server: System Management Manual* (B1716-90018) for installation instructions.

Configuring Your UPS

Introducing the UPS

A new method of power failure protection is available on the HP 3000 Series 9X8 system. Instead of battery backup units, they will have one or more HP model A2998A PowerTrust UPS (Uninterruptible Power Supply) devices.

Like the battery backup method of power failure, the UPS devices protect the HP 3000 system against the loss of work in progress in cases of utility AC power failures of up to fifteen minutes in duration. Furthermore, they have been designed to appear similar to the battery backup method which minimizes their effect on system operation and management procedures.

UPS devices offer two principal advantages over the battery backup method:

- In a minimal UPS-based system, the degree of power failure protection is equivalent to that provided by the battery backup unit. You can, however, add more UPS devices to the system and provide reserve power to selected peripherals. Depending upon how much of the system is provided with UPS power, it can run a partial or full workload non-stop through limited periods of AC power failure.
- The UPS contains a serial I/O communications interface that, in conjunction with UPS Monitor/iX software, notifies the system operator of any problems. Like the battery backup hardware that the UPS devices replace, a system-wide power failure recovery message is broadcast to all active user terminals and to the console upon the return of power following a failure. In addition to console messages, the UPS Monitor/iX software also posts a variety of status and warning messages to the system log files which you can review and analyze to evaluate system performance.

To configure a UPS device

You can use one of two configuration methods to add UPS devices to a Series 9X8 systems. For the first or only UPS, which is attached to the third serial port on the system's LAN/Console I/O interface card, you use NMMGR to set the data preconfigured in the default configuration group supplied with the FOS tape. You perform this procedure once, immediately after you install a new system. For additional UPS devices, which are attached to a DTC serial I/O port, you use NMMGR to supply all of the information necessary to configure the device(s). (As the final step in this second method, you will cross-validate the configuration files with SYSGEN.)

Note	Each UPS device, and only a UPS device, <i>must</i> have its device class name set to HPUPSDEV during I/O configuration. Otherwise, the UPS Monitor/iX software will not be able to initialize and communicate with the UPS device(s) correctly.
-------------	--

To configure the first UPS after an Install

After you have installed a new Series 9X8 system, you must “set” the UPS configuration data supplied in default configuration group. To configure the first UPS, do the following:

1. Boot the system using the default configuration group.
2. At the MPE prompt, start the NMMGR program. Enter:

```
:RUN NMMGR.PUB.SYS
```
3. Press the **Open Config** softkey twice and wait while NMMGR opens a configuration file.
4. Enter a node name and press the **Save Data** softkey.
5. Press the **Go to DTS** softkey to display the DTS configuration screen.
6. Tab to the third field and enter the physical path of the LAN/Console I/O interface card, then press the **Save Data** softkey.
7. Press the **Go to UPS Port** softkey and at the UPS Port screen, verify that the LDEV number is correct, the Parity Checking option is set to

B-2 Configuring Your UPS

none, and the baud rate to **1200**. Make any changes to this screen if it is necessary to correct the values.

8. Press the **Save Data** softkey to save your UPS Port configuration. (Note that the upper right corner of the screen will change from **Data: N** to **Data: Y**.)
9. Press **Prior Screen** twice and at the Main screen, press **Utility**.
10. At the Utility screen, press **Validate Link/DTS** to cross-validate the DTC configuration with the SYSGEN configuration.
11. Once validation is complete, press **Prior Screen** three times and at the Open Configuration File screen, press **Exit Program** to exit NMMGR.
12. Reboot the system to make the new configuration effective.
13. Turn power to the DTC hardware off and then on again to download the correct baud rate for the UPS port to the DTC hardware. (On some systems, cycling the power to a DTC may require you to unplug it and plug it in again.)

Note If you don't know the path of the Console/LAN interface card, start SYSGEN's I/O configurator and at the **io>** prompt, use the **LDEV** command to check the path:

```
io>LDEV LDEV=20
```

The console will be on an I/O path of the form XX/XX.0, such as 56/56.0. The UPS device that you are configuring will have a path of the form XX/XX.3 (for example, 56.3). Exit the I/O configurator and Sysgen and use this information in step 6.

To configure a UPS connected via a DTC port

All UPS devices on a Series 9X8 system other than the first one are connected to your computer system via a DTC port. You use the NMMGR program to add them to your system configuration using a procedure that is very similar to configuring user terminals.

To configure a UPS connected via a DTC, do the following:

1. At the MPE prompt, start the NMMGR program. Enter:
`:RUN NMMGR.PUB.SYS`
2. Press the **Open Config** softkey twice and wait while NMMGR opens a configuration file.
3. Press **Go to DTS** to enter the DTS configurator.
4. Press **Go to DTC** and choose the appropriate DTC configurator for the system (DTC16ix, DTC16MX, DTC16, DTC48, etc.).
5. Choose an available LDEV number for the UPS you are configuring, and determine which DTC port (DTC card number and port number) the UPS is connected to.
6. Press the **Config Card** softkey to enter the DTC card configurator.
7. Add each UPS by entering its logical device number in the Ldev field and **UP10D12** in the Profile Name field. When you have added all UPS devices, press **Save Data**.
8. Press the **Validate Link/DTS** softkey to cross-validate the DTC configuration with the SYSGEN configuration.
9. Once validation is complete, press **Prior Screen** until you see the Open Configuration File screen, and then press **Exit Program** to exit NMMGR.

If you see a message that the NETXPORT subsystem has not been validated, ignore it and exit the program.
10. Shut down the system.
11. Turn power to the DTC hardware off and then on again to download the correct baud rate for the UPS port to the DTC hardware. (On some systems, cycling the power to a DTC may require you to unplug it and plug it in again.)
12. Reboot the system to make the new configuration effective.

B-4 Configuring Your UPS

Overview of UPS Monitor/iX Software

Once you have configured UPS devices on the system, they will automatically be monitored by the UPS Monitor/iX software. This software causes the UPS devices to emulate the traditional battery backup method of system powerfail handling and recovery. UPS Monitor/iX runs continually while the system is up to monitor all of the UPS devices for power failure and any other hardware status conditions. It reports these conditions to the system operator via console messages and records them in the system log file.

Note UPS monitoring is event number 148 in the system log files. The default is ON (i.e. UPS hardware conditions are recorded in the files) regardless of whether the system has UPS power fail protection or not. In the latter case, when no UPS devices have been configured, the system log files will receive and record two UPS-related messages each time the system starts: one indicating that the UPS Monitor/iX process has been launched and a second message which says that no UPS devices are found in the I/O configuration.

System behavior when AC power fails

Whenever input AC power to any UPS device fails, the UPS hardware switches to internal battery operation to continue to deliver output AC power to the computer equipment. No actual power failure occurs at the computer equipment itself and, as a result, the SPU continues to operate. However, the actual behavior of the system will vary depending on how much of the system equipment is provided with UPS power.

In the “minimal” case, where only the SPU and any Remote Busses receive UPS power (and assuming that disks are external to the SPU), the system is most likely to appear to be dormant (like a traditional battery backup method system) because the system can not make progress once the disks lose power and spin down. The system will simply enter its “idle loop”, waiting for disk I/O operations to complete, and that won’t happen until AC power returns and the disks spin up again.

But in expanded UPS coverage systems, where some or all of the disks receive UPS power, the system may continue to run to some extent. Again, it depends

on what resources the system needs to perform its workload. Batch jobs that only need CPU, memory, and disk I/O can continue to run undisturbed. Processing that requires tape or printer or terminal I/O will be blocked if those peripherals do not have UPS power.

UPS Monitor/iX issues a warning message to the system console to notify the operator that the particular UPS (identified by its LDEV number) has reported to the system that its input AC power has failed. In the following example, UPS Monitor/iX reports and power failure and a recovery shortly thereafter:

```
:showtime
FRI, AUG 13, 1993, 11:27 AM
:
:11:27/50/UPS LDEV 102 reports loss of AC input power. (UPSERR 0033)

**RECOVERY FROM POWER FAIL**

11:27/50/UPS LDEV 102 reports AC input power restored. (UPSWRM 0036)
:
```

Example B-1. Sample Console Messages from UPS Monitor/iX

UPS Monitor/iX also writes a system log file entry that denotes the input power loss to the UPS device. Read "To enable logging of UPS activity" and "To review UPS activity recorded in the system log file", later in this chapter for more information.

System Behavior When AC Power Returns

The behavior of the system when AC input power returns to the UPS is very similar to that of the battery backup method systems. One of two things will happen: a recovery from power failure (if AC power returns before the UPS battery that backs up the SPU becomes exhausted) or a system crash.

If AC power returns before the UPS battery becomes exhausted (up to fifteen minutes when starting with fully charged UPS batteries; less if the batteries were already partially discharged), then the system recovers from the AC power failure and resumes normal operation. In this case, UPS Monitor/iX displays

B-6 Configuring Your UPS

a message on the system console, posts an entry in the system log files, and broadcasts the following message to all active user terminals:

```
** RECOVERY FROM POWERFAIL **
```

If the UPS battery that powers the SPU becomes exhausted before AC input power returns, then the system really does lose AC power and crashes. In this case, when AC power does return and the UPS turns on again, the system reboots just as if it used battery backup.

To enable logging of UPS activity

The UPS Monitor/iX program posts UPS status and alarm messages to the system log files. If system logging for the UPS Monitor/iX (which is event number 148) is turned on, you can review the messages to troubleshoot your system configuration and evaluate system performance.

As the default, event 148 is ON. To verify that it is or, if necessary, to turn it on, do the following:

1. At the MPE prompt, start SYSGEN by entering:

```
:SYSGEN
```

2. At the `sysgen>` prompt, start the LOG configurator by entering:

```
sysgen>LOG
```

3. To display which system logging events are enabled or disabled, enter:

```
log>SHOW SLOG
```

You will see a list of information similar to the example shown on the next page.

4. To turn UPS Monitor/iX logging on (if it is currently listed as OFF), enter:

```
log>SLOG ON=148
```

5. To exit the LOG configurator and SYSGEN, enter the `EXIT` command twice. You will see the MPE prompt displayed on your screen.

```
log>SHOW SLOG
```

system log events	event #	status
-----	-----	-----
System logging enabled	100	OFF
System up record	101	ON
Job initiation record	102	OFF
Job termination record	103	OFF
Process termination record	104	OFF
NM file close record	105	OFF
System shutdown record	106	ON
Power failure record	107	ON
Spooling log record	108	OFF
I/O error record	111	ON
Physical mount/dismount	112	OFF
Logical mount/dismount	113	OFF
Tape labels record	114	OFF
Console log record	115	ON
Program file event	116	ON
NCS spooling log record	120	ON
Architected interface record	130	ON
Password changes	134	ON
System logging configuration	135	ON
Restore logging	136	ON
Printer access failure	137	ON
ACD changes	138	ON
Stream initiation	139	ON
User logging	140	ON
Process creation	141	ON
Chgroup record	143	ON

Example B-2. Sample System Log Configuration

File open record	144	ON
Maintenance request log	146	OFF
UPS Monitor Event Logging	148	OFF
Diagnostic Information	150	ON
High Priority Machine Check	151	ON
Low Priority Machine Check	152	ON
Directory Open/Close Logging	155	OFF
CM File Close	160	OFF
Chdir	161	OFF
Process Adoption	162	OFF
File Owner Change	163	OFF

log>

Example B-2. Sample System Log Configuration

To review UPS activity recorded in the system log file

UPS Monitor/iX status and alarm messages are recorded in the system log files as event number 148. You can use the LOGTOOL utility to review entries in the system log file about the performance and condition of UPS devices on your system. To do so, follow these steps:

1. List the names of the log files currently on your system. At the MPE prompt, enter:

```
:LISTFILE LOG@.PUB.SYS
```

Note the number of the last log file in the list (other than LOGDCC). You will use it in step 5.

2. Start the system diagnostic utility. At the MPE prompt, enter:

```
:SYSDIAG
```

3. Run the LOGTOOL utility. Enter:

```
DUI >RUN LOGTOOL
```

4. To review the current log file, use the SWITCHLOG command to close it and open a new one.

DUI >SWITCHLOG

5. List the UPS-related messages (which are recorded as system log event number 148) in the log file that you want to review. For example, if the last log file displayed with the `LISTFILE` command was `LOG00017`, enter:

DUI >LIST LOG=17;TYPE=148

Or, if the last log file was `LOG00017` and you then issued the `SWITCHLOG` command, to see the most recent log file you would enter:

DUI >LIST LOG=18;TYPE=148

In a moment, you will see the contents of the system log files for event 148, which stores UPS-related messages. If event 148 was disabled, you are informed that no messages are found.

C

UPS Console Messages

Appendix C describes console messages that only occur while you are using the UPS.

MESSAGE: UPS LDEV! reports loss of AC input power. (UPSERR 0033)

CAUSE The specified UPS device reported that it detected an input power failure. There has been an AC power failure somewhere in the power path leading into the UPS. The UPS has switched to its internal battery pack to supply reserve power.

ACTION If the power failure is brief, not long enough to exhaust the UPS battery, no action is needed. Otherwise, determine what is causing the power loss and take action to restore the power before the UPS battery becomes exhausted.

MESSAGE: UPS LDEV ! reports AC input power "Bypass Mode".
(UPSWRN 0035)

CAUSE The specified UPS device has been placed into its "AC Power Bypass Mode" of operation. This should only occur when an HP Customer Engineer is servicing the UPS and intends to put the UPS into "Bypass Mode".

ACTION: No action is needed if this message occurs during Customer Engineer servicing of the UPS. If this message occurs during normal system operation, there is probably a hardware problem in the UPS. Call your HP service representative.

MESSAGE: UPS LDEV ! reports AC input power restored. (UPSWRN 0036)

CAUSE: The specified UPS device had lost its AC input power in the past, and now the AC input power has been restored. If the UPS is operating correctly, it will now switch from battery operation back to normal AC power operation.

ACTION: No action is needed. The system automatically returns to normal operation when all UPS devices (there may be one or several UPS devices on a system) detect that normal AC input power is present following a power loss at any UPS.

MESSAGE: UPS LDEV ! reports "Low Battery Charge" condition.
(UPSWRN 0037)

CAUSE: The specified UPS had lost its AC input power some time ago and has been supplying reserve power from its battery. AC input power has not been restored yet, causing the battery to be drained down to a "low charge" power level.

ACTION: Locate and correct the cause of the AC power failure. If AC power is not restored within the next two minutes, the UPS battery will be exhausted and the UPS output AC power will fail, causing power loss to the computer equipment.

MESSAGE: UPS LDEV ! reports AC output power turned off. (UPSERR 0041)

CAUSE: The specified UPS device has turned off its AC output power. Someone may have mistakenly turned off the UPS' power switch, or the UPS may have malfunctioned. Whatever equipment was receiving power from the UPS has now lost power.

ACTION: Investigate and correct the problem at the UPS. Turn on all power control switches on the UPS. If the computer (CPU) lost power, you will have to re-boot the system after restoring the UPS power.

MESSAGE: UPS LDEV ! reports UPS "System Fail" condition cleared.
(UPSWRN 0128)

CAUSE: Some time ago, the specified UPS device had reported a UPS "System Failure" condition. Now, the "System Failure" condition within the UPS device has been corrected and the UPS is reporting that it has returned to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "Inverter Fail" condition cleared. (UPSWRN 0129)

CAUSE: Some time ago, the specified UPS device had reported a UPS "Inverter Failure" condition. Now, the "Inverter Failure" condition within the UPS device has been corrected and the UPS is reporting a return to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "Battery Not Present" condition cleared. (UPSWRN 0130)

CAUSE: Some time ago, the specified UPS device had reported a "Battery Not Present" condition. Now, the "Battery Not Present" condition within the UPS has been corrected and the UPS is reporting that it has returned to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "Charger Fault" condition cleared. (UPSWRN 0131)

CAUSE: Some time ago, the specified UPS device had reported a UPS "Charger Fault" condition. Now, the "Charger Fault" condition within the UPS device has been corrected and the UPS is reporting that it has returned to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "Overload Shutdown" condition cleared. (UPSWRN 0132)

CAUSE: Some time ago, the specified UPS device had reported an "Overload Shutdown" condition. Now, the "Overload Shutdown" condition within the UPS device has been corrected and the UPS is reporting a return to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "High Ambient Temperature Shutdown" condition cleared. (UPSWRN 0133)

CAUSE: Some time ago, the specified UPS device had reported a "UPS High Ambient Temperature Shutdown" condition. Now, the "High-Ambient Temperature Shutdown" condition has been corrected. The UPS is reporting a return to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "Overload" condition cleared.
(UPSWRN 0134)

CAUSE: Some time ago, the specified UPS device had reported a UPS "Overload" condition. Now, the UPS "Overload" condition has been corrected and the UPS is reporting that it has returned to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "High Ambient Temperature" condition cleared. (UPSWRN 0135)

CAUSE: Some time ago, the specified UPS device had reported a UPS "High Ambient Temperature" condition. Now, the "High Ambient Temperature" condition has been corrected and the UPS is reporting that it has returned to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "Battery Test Fail" condition cleared. (UPSWRN 0136)

CAUSE: Some time ago, the specified UPS device had reported a UPS "Battery Test Fail" condition. Now, the "Battery Test Fail" condition within the UPS device has been corrected and the UPS is reporting a return to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "High Battery Voltage" condition cleared. (UPSWRN 0137)

CAUSE: Some time ago, the specified UPS device had reported a UPS "High Battery Voltage" condition. Now, the "High Battery Voltage" condition in the UPS device has been corrected and the UPS is reporting a return to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "Low Battery Voltage" condition cleared. (UPSWRN 0138)

CAUSE: Some time ago, the specified UPS device had reported a UPS "Low Battery Voltage" condition. Now, the "Low Battery Voltage" condition in the UPS device has been corrected and the UPS is reporting a return to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "High Output Voltage Shutdown" condition cleared. (UPSWRN 0139)

CAUSE: Some time ago, the specified UPS device had reported a UPS "High Output Voltage Shutdown" condition. Now, the "High Output Voltage Shutdown" condition has been cleared and the UPS is reporting a return to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "Low Output Voltage Shutdown" condition cleared. (UPSWRN 0140)

CAUSE: Some time ago, the specified UPS device had reported a UPS "Low Output Voltage Shutdown" condition. Now, the "Low Output Voltage Shutdown" condition has been corrected and the UPS is reporting a return to normal operation.

ACTION: No action is needed. This message merely confirms that a previously reported problem has been corrected.

MESSAGE: UPS LDEV ! reports UPS "System Fail" condition. (UPSERR 0192)

CAUSE: The specified UPS device reported a UPS "System Failure" condition. This is a hardware malfunction condition within the UPS.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "Inverter Fail" condition.
(UPSERR 0193)

CAUSE: The specified UPS device reported a "UPS Inverter Fail" condition. This is a hardware malfunction condition within the UPS. The DC-to-AC power inverter within the UPS has malfunctioned.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "Battery Not Present" condition.
(UPSERR 0194)

CAUSE: The specified UPS device reported a "Battery Not Present" condition. This is a hardware malfunction condition within the UPS. The UPS hardware logic perceives that the UPS battery pack is not connected.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "Charger Fault" condition.
(UPSERR 0195)

CAUSE: The specified UPS device reported a UPS "Charger Fault" condition. This is a hardware malfunction condition within the UPS. The UPS' internal battery charger circuitry has malfunctioned.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "Overload Shutdown" condition.
(UPSERR 0196)

CAUSE: The specified UPS device reported a UPS "Overload Shutdown" condition. Too much power was being drawn from the UPS AC output by the computer equipment being powered from this UPS. That equipment may be malfunctioning.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "High Ambient Temperature Shutdown" condition. (UPSERR 0197)

CAUSE: The specified UPS device reported a UPS "High Ambient Temperature Shutdown" condition. The temperature of the UPS hardware became too high to permit safe operation, and the UPS turned itself off to prevent equipment damage.

ACTION: If the computer room has become too warm, take steps to cool the room. If room temperature is not the problem, there has probably been a hardware malfunction. Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "Overload" condition. (UPSERR 0198)

CAUSE: The specified UPS device reported a UPS "Overload" condition. The equipment being powered by the UPS is drawing too much power from the UPS AC output. If the excessive power draw continues, the UPS may reach an "Overload Shutdown".

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "High Ambient Temperature" condition. (UPSERR 0199)

CAUSE: The specified UPS device reported a UPS "High Ambient Temperature" condition. The UPS has detected an abnormally high temperature in the UPS hardware. If the temperature rises further, the UPS may reach "High Temperature Shutdown".

ACTION: If the computer room has become too warm, take steps to cool the room. If room temperature is not the problem, there has probably been a hardware malfunction. Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "Battery Test Fail" condition. (UPSERR 0200)

CAUSE: The specified UPS device reported a UPS "Battery Test Fail" condition. This is a hardware malfunction within the UPS hardware. The UPS logic perceives that the UPS battery is not working properly.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "High Battery Voltage" condition.
(UPSERR 0201)

CAUSE: The specified UPS device reported a UPS "High Battery Voltage" condition. This is a hardware malfunction within the UPS hardware. The UPS logic perceives that the UPS battery is not working properly.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "Low Battery Voltage" condition.
(UPSERR 0202)

CAUSE: The specified UPS device reported a UPS "Low Battery Voltage" condition. This is a hardware malfunction within the UPS hardware. The UPS logic perceives that the UPS battery is not working properly.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "High Output Voltage Shutdown" condition. (UPSERR 0203)

CAUSE: The specified UPS device reported a UPS "High Output Voltage Shutdown" condition. This is a hardware malfunction within the UPS hardware or possibly in the equipment being powered from the UPS. The UPS has shut itself off.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! reports UPS "Low Output Voltage Shutdown" condition. (UPSERR 0204)

CAUSE: The specified UPS device reported a UPS "Low Output Voltage Shutdown" condition. This is a hardware malfunction within the UPS hardware or possibly in the equipment being powered from the UPS. The UPS has shut itself off.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor UPS error: Lost communications with UPS LDEV !. That UPS is no longer being monitored. (UPSERR 0512)

CAUSE: The UPS Monitor had been monitoring the specified UPS LDEV successfully, then for some reason lost I/O communications with that UPS. The I/O interface cable or I/O interface hardware may have failed, or the UPS itself may have failed.

ACTION: Check the specified UPS's I/O interface cable and I/O interface connection at the computer. Check the UPS hardware for power connections and front panel indicators. If the cause is not found, call your HP service representative.

MESSAGE: UPS LDEV ! I/O Operation warning: Warning status returned by I/O system at completion of a UPS I/O request. (UPSWRN 0533)

CAUSE: This is a software-detected warning condition that indicates something unusual occurred in an I/O request made to a UPS by the UPS Monitor.

ACTION: If this warning appears only rarely, then no action is needed. If it appears frequently, then call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! I/O Operation error: Error status returned by I/O system at completion of a UPS I/O request. (UPSERR 0534)

CAUSE: This is a software-detected error condition that indicates an error in the I/O software subsystems that the UPS Monitor uses to communicate with UPS devices.

ACTION: If this error appears only rarely, then no action is needed. If it appears frequently, then call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! I/O Operation error: A status of "aborted" was returned by I/O system as completion status of a UPS I/O request. (UPSERR 0535)

CAUSE: This is a software-detected error condition that indicates an error in the I/O software subsystems that the UPS Monitor uses to communicate with UPS devices.

ACTION: If this error appears only rarely, then no action is needed. If it appears frequently, then call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! I/O Operation error: UPS device failed to complete a Read I/O request in allotted time. The Read request timed out. (UPSERR 0536)

CAUSE: This is a software-detected error condition that indicates an error in the I/O software subsystems that the UPS Monitor uses to communicate with UPS devices. It could indicate a disconnected I/O cable or a UPS hardware malfunction.

ACTION: Check for proper connection of the UPS I/O interface cable at both ends. See if the UPS is powered-on. If those checks do not reveal the source of the problem, then call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor UPS initialization: UPS LDEV ! was initialized successfully and is now being monitored. (UPSWRN 0540)

CAUSE: During system startup, the specified UPS device was successfully initialized by the UPS Monitor.

ACTION: No action is needed. This is merely an expected confirmation that the UPS and UPS Monitor software are operating correctly.

MESSAGE: UPS LDEV ! I/O Operation error: The actual Read data transfer length in a UPS Read I/O operation was too short, less than the minimum required Read transfer length. (UPSERR 0563)

CAUSE: This is a software-detected error condition that indicates an error in the I/O software subsystems that the UPS Monitor uses to communicate with UPS devices. It could also indicate an I/O interface hardware error, or a UPS hardware error

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! I/O Operation error: The actual Read data transfer length in a UPS Read I/O operation was too long, greater than the maximum requested Read transfer length. (UPSERR 0564)

CAUSE: This is a software-detected error condition that indicates an error in the I/O software subsystems that the UPS Monitor uses to communicate with UPS devices. It could also indicate an I/O interface error or a UPS hardware error.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! I/O operation error: Data supplied by the UPS device in response to a Read I/O request did not match any of the allowable data patterns for that request. The Read will be re-done. (UPSERR 0567)

CAUSE: Possibly a poor I/O interface cable connection between the system and the UPS. Possibly electrical noise interference induced in the I/O interface cable or hardware. It could also indicate a malfunction of the UPS hardware.

ACTION: If this error appears only rarely, then no action is needed. If it appears frequently, then call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! initialization error: After trying several times, the UPS Monitor has been unable to complete the initialization sequence of I/O operations for this UPS device. (UPSERR 0573)

CAUSE: Something is preventing the HP3000 system from communicating with the UPS. Possibly a bad I/O interface cable or bad I/O interface hardware at the system or at the UPS. Possibly a UPS hardware malfunction.

ACTION: Check the I/O interface cable for correct attachment, and check that the UPS is powered-on. Check that the system I/O configuration is correct. If the problem is not found, then call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor warning: Too many UPS devices have been configured in the system I/O configuration files. The UPS Monitor can not monitor all of them; it will monitor as many as it can. (UPSWRN 0577)

CAUSE: Incorrect system I/O configuration. The system I/O configuration, generated by SYSGEN and NMMGR configurators, contains more than 128 UPS devices, which is the maximum number that the UPS monitor can handle simultaneously.

ACTION: Review and correct the system I/O configuration, reducing the number of UPS devices specified in the configuration to an acceptable number.

MESSAGE: UPS Monitor system call error: Error status ! (Subsystem # !, Error # !) received from procedure HPFOPEN. (UPSERR 0580)

CAUSE: This is a software-detected error condition that indicates an error occurred in a call to the specified MPE/iX operating system procedure when that procedure was called by the UPS Monitor software.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor system call error: Error status ! (Subsystem # !, Error # !) received from procedure FCLOSE. (UPSERR 0581)

CAUSE: This is a software-detected error condition that indicates an error occurred in a call to the specified MPE/iX Operating System procedure when that procedure was called by the UPS Monitor software.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor system call error: Error status ! (Subsystem # !, Error # !) received from procedure Create_Port. (UPSERR 0584)

CAUSE: This is a software-detected error condition that indicates an error occurred in a call to the specified MPE/iX Operating System procedure when that procedure was called by the UPS Monitor software.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor system call error: Error status ! (Subsystem # !, Error # !) received from procedure Purge_Port. (UPSERR 0585)

CAUSE: This is a software-detected error condition that indicates an error occurred in a call to the specified MPE/iX Operating System procedure when that procedure was called by the UPS Monitor software.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor error: UPS Monitor was unable to create its UPS Table object. The UPS Monitor process can not operate without it, and is aborting itself. (UPSERR 0586)

CAUSE: This is a software-detected error condition that indicates an error in the UPS Monitor software or in some other system software, or a system memory error.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor UPS error: Unable to start monitoring on UPS Ldev ! due to File System error in finding or opening the device. (UPSWRN 0587)

CAUSE: This is a software-detected error condition that indicates an error in the UPS Monitor software or in some other system software, or a system memory error.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS LDEV ! initialization error: UPS Monitor was unable to allocate (open) this UPS device. This UPS device will not be monitored. (UPSERR 0589)

CAUSE: This is a software-detected error condition that indicates an error in the UPS Monitor software or in some other system software, or a system memory error.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor error: UPS Monitor process initialization failed due to error in obtaining resources (data object, message port, etc.). (UPSERR 0590)

CAUSE: This is a software-detected error condition that indicates an error in the UPS Monitor software or in some other system software, or a system memory error.

ACTION: Call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor warning: UPS Monitor finds no UPS devices configured in the system I/O configuration files. UPS Monitor is terminating itself. (UPSWRN 0591)

CAUSE: No UPSs have been configured in the system's I/O configuration files. This is an error if this system is supposed to have UPSs on it. This is not an error if this system is not supposed to have UPS devices on it.

ACTION: If this system is supposed to have UPS devices on it, then review and correct the system I/O configuration, and then restart the system. If this system is not supposed to have UPS devices on it, then no action is needed.

MESSAGE: UPS Monitor information: UPS Monitor process has been launched by PROGEN and is starting-up its operation. (UPSWRN 0595)

CAUSE: The system has just been started-up, and the UPS Monitor software subsystem has automatically been started as well.

ACTION: No action is needed. This is merely an informational message confirming that the UPS Monitor software has been started.

MESSAGE: UPS Monitor information: UPS Monitor process has initialized itself successfully, and is ready to start UPS monitoring operations. (UPSWRN 0596)

CAUSE: After the UPS Monitor process was first started, it successfully initialized itself: it acquired the basic resources it needed to commence operations.

ACTION: No action is needed. This is merely an informational message that confirms that the UPS Monitor completed its process initialization successfully.

MESSAGE: UPS Monitor information: UPS Monitor process is shutting down, due to a normal system shutdown. (UPSWRN 0597)

CAUSE: The system operator initiated a normal Control-A Shutdown of the MPE/iX system. The UPS Monitor is shutting itself down as part of the overall system shutdown.

ACTION: No action is needed. This is merely an informational message that confirms that the UPS Monitor is shutting down due to a normal system shutdown.

MESSAGE: UPS Monitor warning: UPS Monitor process is shutting down and restarting itself due to an internal error condition. (UPSWRN 0599)

CAUSE: The UPS Monitor detected an error condition internal to its software, and is attempting to recover by restarting itself from the beginning of its process.

ACTION: If this warning appears only rarely, then no action is needed. If it appears frequently, then call your Hewlett-Packard representative.

MESSAGE: UPS Monitor error: UPS Monitor process is shutting down, due to an unrecoverable internal error condition. (UPSERR 0600)

CAUSE: The UPS Monitor software detected an error condition within its processing from which it can not recover. Accordingly, it is shutting itself down, ending the UPS monitoring processing.

ACTION: This should rarely, if ever, happen in practice. You can re-boot the system to see if the UPS Monitor will run successfully after a new startup of the system. If the problem persists, call your Hewlett-Packard service representative.

MESSAGE: UPS Monitor information: UPS Monitor process startup of UPS devices failed, due to inability to get UPS devices' allocation information from the system. (UPSERR 0602)

CAUSE: This is a software-detected error condition that indicates an error in the UPS Monitor software or in some other system software, or a system memory error.

ACTION: Call your Hewlett-Packard service representative.

D

Declaration of Conformity

The Declaration of Conformity appears on the following page.

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacture's Name: Hewlett-Packard
8000 Foothills Blvd.
Roseville CA. 95747, U.S.A.

declares, that the product:

Product Name: PA-RISC Computer System

Model Number(s): HP3000 908LX
HP3000 918LX/RX
HP3000 928LX/RX
HP3000 968LX/RX
HP3000 978RX

HP9000 E25 (806)
HP9000 E35 (816)
HP9000 E45 (826)

Conform to the following Product Specifications:

Safety: IEC950: 1986+A1+A2/EN 60950:1988+A1+A2

EMC: CISPR-22: 1985/EN55022:1988-Class A
IEC801-2: 1991/prEN55024-2: 1992 -3kV CD, 8kV AD
IEC801-3: 1991/prEN55024-3: 1991 3V/m
IEC801-4: 1988/prEN55024-4: 1992 0.5kV Signal Lines,
1KV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directives 89/336/EEC.

Roseville  9/30/93
Ed Heinsen, NCMO Quality Manager

Quality Department NCMO, Roseville, California, U.S.A.

European Contact: Your local Hewlett-Packard sales and service office or Hewlett-Packard GmbH, department ZQ/Standards Europe, Herrenberger Straße 130, D-71034 Böblingen FAX: +49-7031-14-3143

Index

A

- aborting
 - jobs, 7-40
 - sessions, 7-4
- accounts
 - on file screen, 8-15
 - on job screen, 8-20
 - on print file screen, 8-16
 - on session screen, 8-13
- active jobs, 8-21
- adding
 - external disk drives, 4-3
- adding peripherals, 4-20
- adding printers, 4-20
- adding terminals, 4-20
- additional software products
 - setting up, A-2
- administrator mode, changing to, 6-22
- aligning forms, 7-30
- American language
 - HP ALLBASE/4GL, A-5
- American version
 - HP DeskManager, A-2
- Asian language option
 - SNA IMF/XL, A-6
- autoreply, 7-50, 7-52

B

- backing up the system
 - backup report, 8-23
 - date performed, 8-22
 - day scheduled, 8-23

- device, 8-22
- device options, 8-29
- files stored, 8-22
- number of tapes required, 8-22
- options, 8-29
- performing a full backup, 7-52
- printer for backup report, 8-23
- scheduling, 7-50
- setting the backup device, 7-56
- stopping, 7-54
- time needed, 8-22
- time scheduled, 8-23
- type, 8-22
- verifying backup information, 7-54
- viewing, 7-47

Backup Management screen

- fields, 8-22-23
- tasks, 7-47-56

backups, 8-22-23

- verifying backup information, 7-54

basic skills, practicing, 6-24-27

booting

- system, 4-26

British version

- HP DeskManager, A-2

C

- canceling
 - dialog box, 6-21
 - jobs, 7-40
 - selected items, 6-18
 - sessions, 7-4

- cassette
 - labeling, 5-6
 - loading, 5-4
 - making a read and write, 5-4
 - making a read-only, 5-4
 - preparing, 5-4
 - protecting data, 5-4
 - read and write, 5-4
 - read-only, 5-4
 - unloading, 5-6
- cassettes
 - choosing DDS, 5-14
 - DDS HP part numbers, 5-2
 - determine quantity needed, 5-14
 - environmental limits, 5-13
 - handling of, 5-10, 5-11
 - loading, 5-2
 - ordering, 5-2
 - preparing for tape drives, 5-4
 - storage life, 5-13
 - storing of, 5-10, 5-11
 - temperature considerations , 5-12
 - usage limits, 5-13
 - use of 60 meter size, 5-2
 - use of 90 meter size, 5-2
- changing
 - printer configuration, 4-19
 - printer port to a terminal port, 4-20
 - terminal configuration, 4-19
 - terminal port to a printer port, 4-20
 - to administrator mode, 6-22
 - to user mode, 6-23
- changing configuration
 - using Quick Configuration Screen, 4-20
- changing ports
 - using NMMGR, 4-20
- choosing options in dialog boxes, 6-21
- cleaning of tape head
 - how, 5-13
 - when, 5-13
- closing
 - dialog boxes, 6-21
 - menus, 6-14
- commands
 - MPE/iX, 1-2
- computer peripherals
 - console, 3-1
 - external disk drive, 3-3
- configuration
 - changing using NMMGR, 4-20
 - cross-validate, 4-23
 - DTC, 4-14
 - performing a final validation, 4-23
- configuring
 - UPS, 3-11
- configuring databases
 - HP DeskManager, A-2
- configuring software
 - using NMMGR, 4-20
- console, 3-1
- Console Management screen
 - fields, 8-24-29
 - tasks, 7-56-60
- console messages
 - creator, 8-24
 - requests, 8-24
 - responding to messages, 8-5-7
 - responding to requests, 8-3-4
 - time sent, 8-24
 - UPS, 3-11
- console messages and requests, 8-2-7, 8-24
 - displaying, 7-59
 - printing, 7-59
 - replying, 7-58
 - resetting the view, 7-60
 - viewing, 7-56
- conventions
 - menus, 6-15
 - used in documentation, 1-4
- copy data

- from disk to tape, 5-11
- from tape to disk, 5-10
- using RESTORE command, 5-10
- using STORE command, 5-11
- copy data from disk, 5-11
- copy data from tape, 5-10
- copy files to tape, 5-11
- copying
 - files, 7-9–17
 - files from disk to tape, 7-11
 - files from tape to disk, 7-14
 - files to another group, 7-9
- correcting
 - typing errors, 6-20
- cursor movement keys, 8-8
- customizing, 4-19
- customizing HP Easytime/iX, 7-60–66

D

- data communications and terminal
 - controller, 3-5
- DDS
 - digital data storage, 5-1
- DDS tape drive
 - operating, 5-3
- default baud rate
 - printers, 4-20
 - terminals, 4-20
- defaults
 - set backup device, 8-29
 - set backup options, 8-29
 - set printer, 8-25
 - set restore options, 8-27–28
 - set store options, 8-26
- deleting
 - files, 7-17
 - jobs, 7-40
 - print files, 7-26
 - sessions, 7-4
- devices
 - backup, 8-22

- dialog boxes
 - canceling, 6-21
 - choosing options, 6-21
 - closing, 6-21
 - correcting typing errors, 6-20
 - moving around in, 6-21
 - typing information, 6-20
- digital data storage (DDS), 5-1
- disabling
 - HP Easytime/iX, 6-3
- disk drive
 - external, 3-3
- displaying
 - console messages and requests, 7-59
 - files, 7-21
 - jobs, 7-45
 - print files, 7-30
 - sessions, 7-5
- drive
 - tape, 2-5
- DTC 16iX, 3-5
- DTC configuration, 4-14

E

- Easytime/iX
 - what is it?, 1-1
- editing
 - text, 8-9
- enabling
 - HP Easytime/iX, 6-2
 - printers, 7-34
- English language option
 - SNA IMF/XL, A-5
- exiting
 - HP Easytime/iX, 6-6
 - HP Easytime/iX Setup, 7-66
- external disk drive, 3-3
- external disk drives
 - adding, 4-3

F

- field definitions, 8-12-24
- field help, 6-9
- file
 - using SPNAMES, A-2
- File Management screen
 - fields, 8-14-15
 - tasks, 7-7-22
- files, 8-14-15
 - account, 8-15
 - adding MPE/iX security, 7-21
 - code, 8-15
 - copying, 7-9
 - deleting, 7-17
 - file name, 8-14
 - group, 8-14
 - moving, 7-18-20
 - printing, 7-9
 - reading, 7-20
 - removing MPE/iX security, 7-20
 - renaming, 7-17
 - resetting the view, 7-22
 - setting restore options, 7-16
 - setting store options, 7-13
 - size, 8-15
 - sorting, 7-22
 - status, 8-15
 - stored during backup, 8-22
 - verifying files restored, 7-16
 - verifying files stored, 7-13
 - viewing, 7-8
- final validation
 - configuration, 4-23
 - using SYSGEN, 4-23
- function keys, 8-10-11
 - Add to List, 8-10
 - Cancel, 8-10
 - Close, 8-10
 - Delete from List, 8-10
 - Fast Select, 8-10
 - Field Help, 8-10

- Read, 8-10
- Read Next, 8-11
- Save, 8-11
- Select, 8-11
- Stop, 8-11
- Test, 8-11
- To/From Menu Bar, 8-11
- Update Display, 8-11

G

- general information, 1-1
- getting help, 6-7-9
 - from Main menu, 6-10
 - Help menu, 6-7
- getting started, 6-1-23
- Go to MPE, 6-6
- groups
 - on file screen, 8-14

H

- handling cassettes, 5-10, 5-11
- hardware
 - listing, 4-1
 - overview, 2-1
- help
 - menu, 6-7
 - menu, opening, 6-7
 - on basic skills, 6-7
 - on glossary, 6-7
 - on help, 6-7
 - on keys, 6-7
 - on procedures, 6-7
 - on version, 6-7
- Help key, 6-9
- Help menu topics
 - reading, 6-8
- holding jobs, 7-42
- HP ALLBASE/4GL
 - American language, A-5
 - installing, A-4
 - installing developer system, A-4

- installing run-time environment, A-4
- line-drawing character set, A-5
- native computer language, A-5
- HP DeskManager
 - American version, A-2
 - British version, A-2
 - configuring databases, A-2
 - installing, A-2
 - Object Code Translated version, A-3
 - standalone, A-3
 - UDC files, A-2
- HP Easytime/iX
 - disabling, 6-3
 - enabling, 6-2
 - installing, 6-2
 - moving around in, 8-8
 - options, 8-25-29
 - reference, 8-1-30
 - tasks, 7-1-68
 - troubleshooting, 7-66, 7-68
 - what is it?, 1-1
- HP Information Access
 - installing, A-7
 - NewWave, A-7
- HP Predictive Support, A-6
- HP Resource Sharing
 - installing, A-7
 - NewWave, A-7
- I**
- identifying
 - user input, 1-4
- indicator lights
 - UPS, 3-7
- indicator status lights
 - interpreting, 2-6
- installing
 - HP ALLBASE/4GL, A-4
 - HP DeskManager, A-2
 - HP Information Access, A-7
 - HP Resource Sharing, A-7

- NewWave, A-7
- SNA IMF/XL, A-5
- installing developer system
 - HP ALLBASE/4GL, A-4
- installing HP Easytime/iX, 6-2
- installing run-time environment
 - HP ALLBASE/4GL, A-4
- interpreting status lights, 5-7
- ISL
 - starting your system from, 4-2
- ISL prompt, 4-2

J

- jobfence
 - setting, 7-45
- Job Management screen
 - fields, 8-20-21
 - tasks, 7-37-47
- jobs, 8-20-21
 - account, 8-20
 - deleting, 7-40
 - displaying, 7-45
 - job name, 8-20
 - limiting number of, 7-44
 - moving to top of queue, 7-43
 - program, 8-20
 - putting on hold, 7-42
 - resetting the view, 7-46
 - resuming suspended jobs, 7-43
 - scheduling, 7-41
 - setting the jobfence, 7-45
 - sorting, 7-46
 - starting, 7-39
 - status, 8-21
 - suspending, 7-42
 - taking off hold, 7-42
 - user, 8-20
 - viewing, 7-38

K

- keys, 8-8-11

- cursor movement, 8-8
- editing, 8-9
- function, 8-10-11
- selecting items, 8-9

L

- labeling a cassette, 5-6

LDEVs

- removing, 4-5

limiting

- jobs, 7-44
- sessions, 7-5

line-drawing character set

- HP ALLBASE/4GL, A-5

list box, 6-12

- identifying, 6-16
- scrolling in, 6-17
- selecting objects, 6-17

listing system hardware, 4-1

- MAPPER, 4-1

loading your cassette, 5-2

logging on, 6-4

M

Main menu

- getting help, 6-10
- opening a screen, 6-10

maintaining

- tape drive, 5-1

managing

- backups, 7-47
- console messages, 7-56
- files, 7-7
- jobs, 7-37
- printers, 7-32
- print files, 7-22
- sessions, 7-2

MAPPER

- listing system hardware, 4-1

menu bar, 6-11

menus

- choosing menu items, 6-14

- closing, 6-14

- conventions, 6-15

- opening, 6-13

- message line, 6-12

messages

- and requests from the system, 8-2-7
- sending to other users, 7-4

- modes, 6-22-23

moving

- files, 7-18-20

- files multiple files, 7-19

- files one file, 7-18

- in HP Easytime/iX, 8-8

- jobs to top of queue, 7-43

- print files to top of queue, 7-26

MPE/iX commands

- what are they?, 1-2

N

native computer language

- HP ALLBASE/4GL, A-5

NewWave

- HP Information Access, A-7

- HP Resource Sharing, A-7

- installing, A-7

NMMGR

- changing ports, 4-20

- configuring the software, 4-20

- for changing configuration, 4-20

O

Object Code Translated version

- HP DeskManager, A-3

online Help Facility, 1-3

opening

- menus, 6-13

- screens, 6-10

operating

- DDS tape drive, 5-3

- operating modes, 6-22-23

- changing administrator password, 6-23
- changing to system administrator, 6-22
- changing to user, 6-23
- operating system
 - adding external drives to, 4-3
 - removing LDEVs, 4-5
- options, 7-13, 8-25–29
 - set backup device, 8-29
 - set backup options, 8-29
 - set printer, 8-25
 - set restore options, 8-27–28
 - set store options, 8-26
- ordering
 - HP DDS cassettes, 5-2
- overview
 - hardware, 2-1

P

- passwords
 - changing administrator's, 6-23
 - setting administrator's, 6-22
- performing a full backup, 7-52
- peripherals
 - console, 3-1
 - external disk drive, 3-3
- practicing basic skills, 6-24–27
- preparing a cassette, 5-4
- printer
 - status checking, 4-20
- printer configuration
 - changing, 4-19, 4-20
 - default, 4-19
- Printer Management screen
 - fields, 8-18–19
 - tasks, 7-32, 7-36
- printers, 8-18–19
 - adding, 4-20
 - checking the status, 7-34
 - default baud rate, 4-20
 - disabled, 8-18
 - disabling, 7-34
 - enabled, 8-18
 - enabling, 7-34
 - options, 8-25
 - outfence, 8-19
 - printer name, 8-18
 - setting the HP Easytime/iX printer, 7-35
 - setting the outfence, 7-35
 - setting up, 4-9
 - status, 8-18
 - viewing, 7-33
- Print File Management screen
 - fields, 8-16–17
 - tasks, 7-23*ff*
- print files, 8-16–17
 - account, 8-16
 - aligning forms, 7-30
 - changing number of copies, 7-27
 - changing printer, 7-28
 - deleting, 7-26
 - displaying, 7-30
 - loading forms for, 7-29
 - moving to top of queue, 7-26
 - printer, 8-16
 - print file name, 8-16
 - putting on hold, 7-26
 - reading the contents, 7-27
 - reprinting, 7-29
 - resetting the view, 7-31
 - sorting, 7-32
 - status, 8-17
 - taking off hold, 7-26
 - user, 8-16
 - viewing, 7-24
- printing
 - conventions, 1-4
 - files, 7-9
 - messages and requests, 7-59
 - problems, 7-66, 7-68

- programs
 - jobs running, 8-20
 - sessions running, 8-13
- prompt
 - ISL, 4-2
- Q**
- queue
 - moving a job to the top, 7-43
 - moving print files to top, 7-26
- quick reference cards, 1-3
- R**
- reading files, 7-20
- Read Next function key, 8-11
- ready jobs, 8-21
- rebooting
 - DTC, 4-18
 - system, 4-18
- removing
 - LDEVs, 4-5
- renaming files, 7-17
- replying
 - to messages from other users, 7-4
 - to system requests, 7-58
- requests
 - and messages from the system, 8-2-7
 - console messages, 8-24
 - from the system, 8-2-7
- RESTORE command
 - to copy data, 5-10
- restore options, 8-27-28
- restoring
 - files from tape to disk, 7-14
- restricting
 - number of jobs, 7-44
 - number of sessions, 7-5
 - printing, 7-34
- resuming
 - jobs, 7-43

- S**
- Save, 8-11
- scheduled jobs, 8-21
- scheduling
 - backups, 7-50
 - jobs, 7-41
- screens
 - identifying, 6-11
 - opening, 6-10
- scrolling, 8-8
 - in list boxes, 6-17
- securing files, 7-21
- security
 - with MPE/iX, 7-21
- Select, 8-11
- selecting, 6-17-18
 - all items, 6-18
 - a range of items, 6-18
 - items, 8-9
 - multiple items, 6-17
 - one item, 6-17
- sending
 - messages to other users, 7-4
- Session Management screen
 - fields, 8-13
 - tasks, 7-2-7
- sessions, 8-13
 - account, 8-13
 - deleting, 7-4
 - displaying, 7-5
 - limiting number of, 7-5
 - name, 8-13
 - program, 8-13
 - resetting the view, 7-6
 - sending messages to other users, 7-4
 - sorting, 7-6
 - start date/time, 8-13
 - user, 8-13
 - viewing, 7-2
- setting
 - backup device, 7-56

- backup options, 7-54
- HP Easytime/iX printer, 7-35
- jobfence, 7-45
- job limit, 7-44
- printer outfence, 7-35
- restore options, 7-16
- session limit, 7-5
- store options, 7-13
- the administrator password, 6-22
- setting up
 - additional software products, A-2
 - printers, 4-9
 - terminals, 4-9
- setup program
 - canceling a startup screen, 7-65
 - choosing a startup screen, 7-65
 - disabling functions, 7-62
 - enabling functions, 7-63
 - exiting, 7-66
 - saving the setup, 7-65
 - setting backup defaults, 7-63
 - setting console, 7-64
 - starting, 7-61
- SNA IMF/XL
 - Asian language option, A-6
 - English language option, A-5
 - installing, A-5
- solving problems, 7-66, 7-68
 - printer problems, 7-67
 - print file problems, 7-66
- sorting
 - files, 7-22
 - jobs, 7-46
 - print files, 7-32
 - sessions, 7-6
- SPNAMES** file, A-2
- standalone
 - HP DeskManager, A-3
- starting
 - backups, 7-52
 - HP Easytime/iX, 6-5
 - jobs, 7-39
 - printers, 7-34
- starting system
 - using **START NORECOVERY**, 4-25
- starting your system, 4-2, 4-26
- status
 - files, 8-15
 - job, 8-21
- status lights
 - interpreting, 5-7
 - interpreting a caution, 5-8
 - interpreting for read-only, 5-8
 - tape drive, 2-6
- status line, 6-11
- Stop, 8-11
- stopping
 - backups, 7-54
 - jobs, 7-40
 - printers, 7-34
- store options, 8-26
- storing
 - files to tape, 7-11
- storing cassettes, 5-10, 5-11
- streaming jobs, 7-39
- suspended
 - jobs, 8-21
- suspending
 - jobs, 7-42
- switches
 - UPS, 3-7
- SYSGEN**
 - performing a final validation, 4-23
- system
 - booting, 4-26
 - external disk drives, 4-3
 - rebooting, 4-18
 - starting, 4-2
- system administrator mode, 6-22
- system hardware
 - listing, 4-1

T

- tape cassettes, 5-2
- tape drive, 2-5
 - maintaining, 5-1
 - operating, 5-3
 - preparing a cassette, 5-4
 - status lights, 2-6
 - using, 5-1
- tape drives, 5-1
 - descriptions, 5-1
 - familiarization , 5-1
 - indicators, 5-1
- tapes
 - cleaning of tape head, 5-13
- tasks in HP Easytime/iX, 7-1-68
- temperature guidelines
 - cassettes, 5-12
- terminal configuration
 - changing, 4-19, 4-20
 - default, 4-19
- terminals
 - adding, 4-20
 - default baud rate, 4-20
 - setting up, 4-9
- text, editing, 8-9
- title bar, 6-11
- To/From Menu Bar key, 8-11

- troubleshooting, 7-66
- typing in a field, 6-20

U

- UDC files
 - HP DeskManager, A-2
- Understanding Your System, 1-3
- uninterruptible power supply
 - UPS, 3-7
- unloading your cassette, 5-6
- Update display key, 8-11
- UPS
 - configuring, 3-11
 - console messages, 3-11
 - indicator lights, 3-7
 - switches, 3-7
 - uninterruptible power supply, 3-7
- user mode, 6-22
- users
 - on job screen, 8-20
 - on print file screen, 8-16
 - on session screen, 8-13
- using
 - tape drive, 5-1

W

- wildcard characters, 8-30