

COMMUNICATOR 3000

Version G.21.00 of MPE V/E (Release 21)

# COMMUNICATOR 3000



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HP 3000 Computer Systems



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Version G.21.00 of MPE V/E (Release 21)



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# CONVENTIONS USED IN THIS MANUAL

## NOTATION

## DESCRIPTION

nonitalics

Words in syntax statements which are not in italics must be entered exactly as shown. Punctuation characters other than brackets, braces and ellipses must also be entered exactly as shown. For example:

EXIT;

*italics*

Words in syntax statements which are in italics denote a parameter which must be replaced by a user-supplied variable. For example:

CLOSE *filename*

[ ]

An element inside brackets in a syntax statement is optional. Several elements stacked inside brackets means the user may select any one or none of these elements. For example:

$\left[ \begin{array}{l} A \\ B \end{array} \right]$  User *may* select A or B or neither.

{ }

When several elements are stacked within braces in a syntax statement, the user must select one of those elements. For example:

$\left\{ \begin{array}{l} A \\ B \\ C \end{array} \right\}$  User *must* select A or B or C.

...

A horizontal ellipsis in a syntax statement indicates that a previous element may be repeated. For example:

[, *itemname*]...;

In addition, vertical and horizontal ellipses may be used in examples to indicate that portions of the example have been omitted.

A shaded delimiter preceding a parameter in a syntax statement indicates that the delimiter *must* be supplied whenever (a) that parameter is included or (b) that parameter is omitted and any *other* parameter which follows is included. For example:

*itema*[, *itemb*][, *itemc*]

means that the following are allowed:

*itema*  
*itema, itemb*  
*itema, itemb, itemc*  
*itema, , itemc*

# CONVENTIONS (continued)

$\Delta$  When necessary for clarity, the symbol  $\Delta$  may be used in a syntax statement to indicate a required blank or an exact number of blanks. For example:

```
SET[(modifier)] $\Delta$ (variable);
```

underlining When necessary for clarity in an example, user input may be underlined. For example:


```
NEW NAME? ALPHA
```

In addition, brackets, braces or ellipses appearing in syntax or format statements which must be entered as shown will be underlined. For example:

```
LET var[[subscript]] = value
```

shading Shading represents the terminal's screen or key portions of an example.



The symbol  may be used to indicate a key on the terminal's keyboard. For example, RETURN indicates the carriage return key.

CONTROLchar

Control characters are indicated by CONTROL followed by the character. For example, CONTROLY means the user presses the control key and the character Y simultaneously.

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## Release 21 Overview

*by Gayla Kohlmoos  
Commercial Systems Division*

This Hewlett-Packard software release is based on MPE V/E (G.00.00) and is referred to as Release 21 (G.21.00). This release of the *Communicator* describes product introductions and enhancements that have been added to our existing software products. This commercial release further extends the functionality and performance of MPE V/E based HP 3000 systems.

### SYSTEM INFORMATION

New with this MPE V/E release is VPLUS/Windows. VPLUS/Windows is a Microsoft Windows-based user interface for VPLUS applications. The VPLUS/Windows graphical user interface provides features such as cut and paste, context sensitive help and the ability to run multiple VPLUS applications concurrently.

HP LaserRX/MPE (version B.00.00) encompasses many product changes and enhancements that you will receive in an update kit if you currently include HP LaserRX/MPE on your support contract. In order to take advantage of these enhancements there are a number of migration steps that you need to follow.

Native Language Support (NLS) has been enhanced to support new East European languages, remove unused Arabic languages and modify existing languages to meet new standards.

### DATA COMMUNICATIONS

The ATP and ADCC interfaces have been enhanced to support duplex printing for the LaserJet 2000 and LaserJet IID.

### SUPPORT TOOLS

HP Predictive Support (A.02.05) has been enhanced and offers the following improvements over the A.02.04 version: C220X disk drive coverage, individual bit error detection coverage, refinements to the disk scanning and configuration tracking utilities, and HP50759A Multitech modem support.

### ADDITIONAL SOFTWARE PRODUCTS

Release 21 introduces HP GlancePlus/V, a new product that replaces Glance/V as the HP diagnostic performance tool of choice. HP GlancePlus/V offers five new screens and several new commands that will complement the original look and feel of Glance/V. You will find migration from Glance/V to GlancePlus/V extremely simple because the integrity is maintained between the two products.

NewWave Office 3.0 provides a new structure of products than can be selected and customized from a menu. There are also a number of changes and additional services provided with this version of NewWave.

## Introduction

The New version of HP DeskManager includes the following enhancements: the Electronic Corporate Directory facility builds on existing tools to provide more automation in the remote directory update features. In addition, the product has been enhanced to: increase the number of computers that the transport manager can schedule mail to, change the name matching algorithm to show exact matches and supersets only, and provide additional support for the IBM 3270 terminal.

HP DeskManager Intrinsic has been enhanced to provide support for HP DeskManager servers and file equations.

## Introducing VPLUS/Windows

*by Cory Cooper  
Commercial Systems Division*

HP VPLUS/Windows is a Microsoft Windows-based user interface for VPLUS applications. It offers a number of significant advantages and benefits to VPLUS programmers and end users.

VPLUS/Windows allows existing VPLUS applications to take advantage of the productivity benefits of the Microsoft Windows user interface. By operating as a Microsoft Windows application, VPLUS/Windows enables users to take advantage of a graphical user interface and a high performance alternative to terminal emulators for HP3000 OLTP applications. VPLUS/Windows provides features such as cut and paste, context sensitive help and the ability to run multiple VPLUS applications concurrently.

VPLUS/Windows is completely compatible with the VPLUS and Hi-Li intrinsic sets. This means that applications coded for VPLUS or Hi-Li will run, without modification, on all block mode terminals, terminal emulators or under VPLUS/Windows on a PC. However, VPLUS/Windows is not a terminal emulator. All applications running under VPLUS/Windows must use only VPLUS or Hi-Li intrinsics for their user interface.

The HP 3000 requires the VPLUS/Windows software (HP36393A). Each PC will require MS-DOS (version 3.2 or later), and Microsoft Windows (version 3.0 or later). VPLUS/Windows should run on any PC that is capable of running Windows 3.0. A PC LAN environment is required for the operation of VPLUS/Windows. The LAN environment consists of HP EtherTwist, HP StarLAN 10, or HP ThinLAN Network PC Link using Network Services. Network Services is available for both the HP OfficeShare and HP LAN Manager environments.

# HP LaserRX/MPE Enhancements

*by Joe Thomas/Colleen Dillon  
Application Support Division*

## SUPPORT CONSIDERATION

HP LaserRX/MPE (HP50700B) encompasses many product changes and enhancements with this release, and requires special attention to ensure smooth migration.

If you currently include HP LaserRX/MPE on your HP 3000 (VE) support contract, and you have also purchased the Software Materials Update for PC (i.e., support product number H2016A+S00) you will receive the HP LaserRX/MPE enhancement release (Version B) CD. Note that you **MUST** be on software support for HP LaserRX/MPE in order to receive the enhancement update kit.

If you already own HP LaserRX/MPE and do not currently include it in your support contract, we encourage you to add its support in order to minimize the inconvenience of not receiving this update.

## MIGRATION ISSUES

As noted, if you are on support for HP LaserRX/MPE you will receive the HP LaserRX/MPE enhancement release CD update.

## Log File Conversion

Before you can collect data with the new host performance collection software, you must convert existing raw logfiles from the old "A" format to the new "B" format. The SCOPE collector should not be restarted until this step is complete.

You must also convert any extracted logfiles that you wish to analyze with the new PC software. Use the MPE host UTILITY program CONVERT command to convert both raw and extracted logfiles. No backward conversion is available. To ensure that this does not create a problem if operating system backdating is necessary, the new host data collection software you install from the enhancement CD (Version B) is compatible with operating system releases UB-DELTA-1 and greater.

## Batch File Conversion

New, command-driven user interfaces for host UTILITY and EXTRACT programs increase user friendliness over the original question-and-answer design. Any existing job streams that run these programs must be modified to accommodate the new command structure. This modification reduces the need to change these batch job streams when new features are added in the future.

## Data Definition Modifications

If you are currently exporting application or process textual data, you may need to modify the data definitions of the output data file or spreadsheet to reflect the changes in the textual data display. See "Metric Changes" section below for more information.

## Microsoft Windows 3.0 Required

HP LaserRX/MPE analysis software for the PC requires Microsoft Windows®<sup>1</sup> 3.0 to run. HP LaserRX/MPE is *not* compatible with earlier releases of Microsoft Windows®.

## NEW FEATURES IN THE PC ANALYSIS SOFTWARE

- New graphs.
  - Total and active numbers of jobs and sessions.
  - Average number of processes using or waiting on a system resource (CPU, disc, memory, or impede).
  - System resource usage per transaction.
  - Application states (using CPU or waiting on a system resource).
- Record-and-playback feature.
  - MS-DOS®<sup>1</sup> command line input of playback file with logfile make automation of periodic repetitive tasks, such as graph printing, possible.
- Native language support for dates and times.
- Four new graphs reflecting disc space utilization.
- Export of more than 64 K bytes of textual application or process data.
- Expanded memory utilization allows more concurrent graphs and textual displays.
- Black background and solid line options are available for graphs.
- Encrypted passwords increase security.
- A status bar on the main window informs you of the status of the last operation performed.
- TIFF file format supported in the EXPORT function to facilitate HP LaserRX/MPE graphic input into many word processing packages.
- The File Open function now has an option to report the type of data and date ranges contained in a local or remote logfile.
- PaintJet print speed can be increased by options to reduce the printed output size by various percentages.
- Both Application and Global graph choices are now contained in one dialog box.
- Either application or process textual data can now be zoomed from either a global or an application graph.
- Textual displays standardized for MPE V and MPE XL systems for simplified analysis and handling of exported data.

- Users who access logfiles over a local area network (LAN) may now connect to up to five remote systems concurrently. (Supported on releases V-DELTA-2 and greater.)

## **NEW FEATURES IN HOST PERFORMANCE COLLECTION SOFTWARE**

- You may now set thresholds that log processes because they wait an excessive percentage of time for a system resource (CPU, disc, memory, or impede).
- Applications may be defined by execution queue, as well as by program file name, user logon, and job type.
- "OR" operator provided for application definitions.
- **UTILITY** and **EXTRACT** command-driven interface.
  - Utilizes function keys by default.
  - Creates more easily maintained batch job streams.
  - Makes interactive use easier.
  - Allows MPE commands.
  - Provides a task-oriented help subsystem.
  - Native language support for dates and times.
- New **UTILITY** features.
  - Displays versions of all HP LaserRX/MPE host performance collection software.
  - Allows user notes to be added to raw logfiles.
  - Terminates the **SCOPE** collector.
  - Requests the **SCOPE** collector to read the **PARM** file and set the parameters without terminating the collector.
  - Checks a **PARM** file for errors and reports resulting collection values.
- New **EXTRACT** features.
  - Automated archiving of logfiles via **WEEKLY**, **MONTHLY**, and **YEARLY** functions.

## METRIC CHANGES

- Application textual data now contains one line for each application rather than up to four lines for each possible execution queue within an application.
  - This information can still be obtained by explicitly defining an application for each execution queue in the PARM file.
- Application textual data no longer contains standard deviations for response time and transaction data.
  - This information was available and valid for MPE V, but is no longer displayed.
- Process stop reasons now represent current interval rather than life of the process to facilitate short-term diagnostics.
- The Global Disc Summary term "disc utilization" now refers to utilization of the busiest disc rather than the average utilization of all discs.
  - This should enhance the diagnostic capability of identifying a single-disc bottleneck.

---

<sup>1</sup>Microsoft® Windows and MS-DOS® are U.S. registered trademarks of Microsoft Corporation.

# Native Language Support Enhancements

by Judy Chen  
Network Systems Group/Internationalization

With this MPE V/E release, the Native Language Support (NLS) language definition tables (CHRDEFnn) are enhanced to support new East European languages, remove unused Arabic languages and modify existing languages to meet new standards.

## NEW SUPPORTED LANGUAGES

The following two new character sets and eight new languages are added to support East European languages in NLS:

Character set name : LATIN2 (Character set number - 22)  
*Latin2 character set is equivalent to ISO 8859/2 character set.*

Language number /	Language name
142	CZECH
143	HUNGARIAN
144	POLISH
145	RUMANIAN
146	SERBOCROATIAN
148	SLOVENE

Character set name : CYRILLIC8 (Character set number - 25)  
*Cyrillic character set is equivalent to ISO 8859/5 character set.*

Language number /	Language name
180	RUSSIAN
181	BULGARIAN

## DELETED LANGUAGES

The following four unused languages using the Arabic8 character set are removed from NLS:

Character set name : ARABIC8 (Character set number - 03)

Language number /	Language name
49	ARABICL
50	ARABICR
53	ARABICWL
54	ARABICWR



## MODIFIED LANGUAGES

The NLS tables have been modified for the following languages:

Language number	Language name
3	CANADIAN-FRENCH
6	FINISH
7	FRENCH
9	ITALIAN
10	NORWEGIAN
12	SPANISH
13	SWEDISH
14	ICELANDIC
51	ARABIC
52	ARABICW
61	GREEK
81	TURKISH
201	CHINESE-S
231	KOREAN



## ATP/ADCC Enhancements

*by Stephen Lee  
Grenoble Networks Division*

The ATP and ADCC interfaces on the HP 3000 perform a number of communication functions. They provide physical connection points for the peripheral devices, perform flow control and parity checking, and also process the information transmitted between the devices and the HP 3000.

With this MPE V/E release, ATP/ADCC will support duplex printing for the LaserJet 2000 and LaserJet IID.

### DUPLEX PRINTING

Duplex printing is the ability to print on both the front and back sides of the printer paper. The Laserjet 2000 and the Laserjet IID are the two PCL (Printer Control Language) laser printers that support duplex printing. These two printers also support simplex (one sided) printing.

### Configuring the Termtypes File

To utilize duplex printing on supported printers, you must configure and enable duplex printing. Configuration consists of modifying an existing termtypes file so that Duplex Printer Mode is enabled. This is done using the TTUTIL.PUB.SYS utility. This termtypes file is then assigned to the printer LDEVs. This enables the Terminal I/O driver to send the Front-Of-Page (FOP) escape sequence to the printer when appropriate.

The Duplex Printer Mode option is included in the Printer Control screen in TTUTIL as illustrated below:

```
[ ] Does the printer support duplex printing (Y,N)
```

To indicate that a printer may be used as a duplex printer, enter "Y" in the field. To save the modification, press ENTER and then the SAVE DATA function key.

In addition to assigning the appropriate printer profiles to the duplex printer LDEVs, the printers must be set for duplex printing according to the appropriate printer reference manuals.

### Enabling Duplex Printing

Once configuration is complete, the printer is capable of duplex printing but not yet enabled for it. Duplex printing is enabled and disabled by sending escape sequences to the printer. This can be done in three ways.

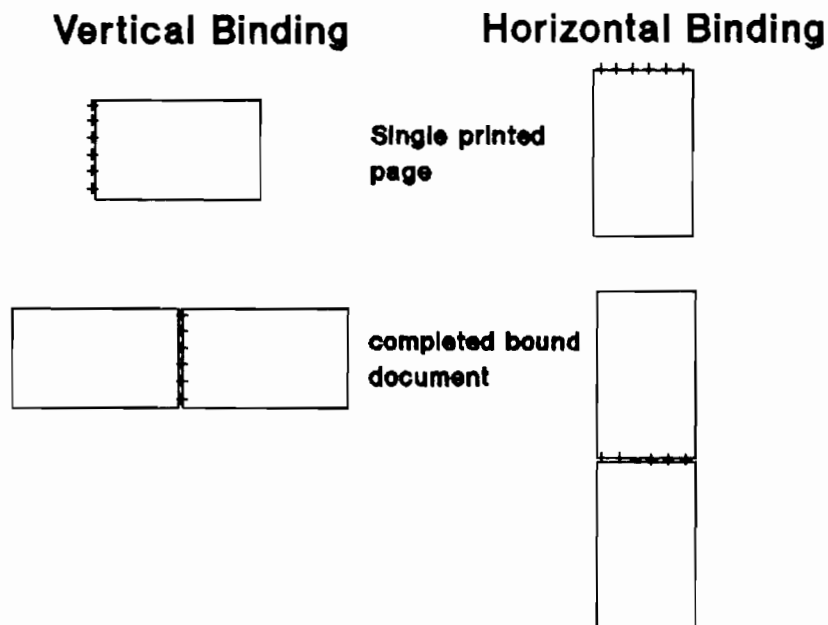
Escape sequences can be embedded in the data file being printed, the termtypes file can be modified to include the escape sequence as part of the initialization string, or the termtypes file can be modified to include the escape sequence as a Vertical Forms Control (VFC) string. If the escape sequences are to be

included in the termtype file, this must be done at configuration time. There are three escape sequences for duplex printing:

- ESC&11S - Enable vertical binding duplex mode
- ESC&12S - Enable horizontal binding duplex mode
- ESC&10S - Disable duplex mode (enable simplex mode)

## Two Duplex Modes

The two duplex modes provide for the binding of the final document. Vertical Binding allows for binding a document along the physical length of the page and Horizontal Binding allows for binding a document along the physical width of the page. This is pictured below where the "+" represents binding.



**Figure 1.** Vertical and Horizontal Binding with Duplex Printing.

In addition to the escape sequences mentioned above, the reset escape sequence (ESCe) will also disable duplex mode and return the printer to simplex mode. Therefore, the duplex mode escape sequences should be entered after the reset escape sequence in an initialization string.

For detailed information on the use of the escape sequences refer to the technical reference manual provided with the printer.

## HP Predictive Support Enhancements

*by Tamera Leopold  
Product Support Division*

Predictive Support has been enhanced to provide several new important benefits. The following presents a brief overview of the HP Predictive Support program and discusses the new enhancements to the A.02.05 version.

### PREDICTIVE SUPPORT PROGRAM

HP Predictive Support is an early warning system that connects your system to the support expertise of the Hewlett-Packard Response Center. As a standard feature of HP 3000 (MPE/V based systems) hardware contractual support, Predictive Support can help to identify *potential* problems in the functioning of HP products. The on-site software, residing on your system, reads and analyzes event logs. Based on rulesets and thresholds developed through historical data across the HP 3000 installed base, the software provides consistent analysis of the data to signal early failure trends in system functioning. If a potential problem is identified, the data is electronically transmitted to the HP Response Center. Response Center Engineers examine the HP Predictive Support findings and develop a diagnosis based on the system's history of HP Predictive Support calls and knowledge accumulated across the installed base. The HP Response Center's diagnosis is passed to your account Customer Engineer (CE), who determines if on-site action is required. If on-site action is appropriate, your CE will work with you to determine what specific measures should be taken.

The major benefit of HP Predictive Support is to maximize system availability, by transforming unscheduled downtime into scheduled maintenance. Problems are identified before user impact, by detecting potential system failures before they turn into visible malfunctions.

### NEW ENHANCEMENTS

HP Predictive Support A.02.05 offers several improvements over the A.02.04 version. The following describes these improvements:

- Coverage provided for the C220X class of disk drives.
- Expanded memory coverage to individual bit error detection.
- Several refinements to disk scanning and configuration tracking utilities.
- Support of the HP50759A Multitech modem.

Only customers with the A.02.04 software already installed should install A.02.05. Customers with previous releases should contact their HP Account CE to receive the updated software.



## Introducing HP GlancePlus/V

*by Richard Santos/Marie Weston  
Application Support Division*



The Hewlett-Packard offering of real-time performance diagnostic tools for MPE V based machines has strengthened with the introduction of GlancePlus/V. The tool replaces Glance/V as the HP diagnostic performance tool of choice. Users of Glance/V will find the migration to GlancePlus/V extremely simple. All original Glance/V functions have been retained in GlancePlus/V and the new added features retain the original look and feel of Glance/V. Additionally, customers who have maintained Glance/V software support will automatically receive the new GlancePlus/V.

By offering the original look and feel of Glance/V and a new extended feature set, GlancePlus/V provides a single solution for performance diagnostic situations. Users who need a simple look at the performance characterization of their machine will still find the original Glance/V screen capabilities at hand. More detailed analysis can be performed by taking advantage of the new GlancePlus/V screens and commands.

Return on investments made in other Hewlett-Packard performance tools can be increased with GlancePlus/V. Optional software linkages into the HP LaserRX/MPE Collector provided in GlancePlus/V allow for a new level of cooperation between these performance tools.

### NEW SCREENS AND COMMANDS

Five new screens are present in GlancePlus/V that complement the original screens found in Glance/V. These new screens provide a vehicle for isolating and identifying system performance anomalies.

The CPU Detail screen provides information on discrete global CPU utilization. Metrics are provided on the traditional components of CPU utilization such as Memory Manager usage, System Process utilization, ICS overhead plus other new MPE V performance sensitive metrics. Included in these new metrics are items such as file open rates, process completion rates, "AST time", and CPU utilization by dispatcher queue.

System disc information is provided in the new Disc Detail screen. Individual disc drive metrics are provided that include values on disc drive utilization, physical read and write rates plus current and maximum queue depth values. A summary section provides information on logical disc drive activity and Memory Manager activity.

Physical memory activity is represented in the Memory Detail screen. Data can be found in this screen to help identify possible memory pressure situations. Metrics are provided that report global segment fault rates, physical memory size and the system memory clock cycle rate.

The Tables screen provides data on the utilization of major MPE V system tables. This screen lists the tables, along with their current and maximum utilization percentages. The tables include the PCB, DST, CST, DRQ, and IOQ.

A powerful filtering command provides the mechanism for entry into the last of the new GlancePlus/V screens, the Filter Screen. This screen, which is analogous to the Job/Session screen, provides a mechanism

for the user of GlancePlus/V to define a filter based on several criteria. Once defined, processes that match the selected criteria will be displayed in the Filter screen. Users can choose among several criteria items such as program name, user logon, or HP LaserRX/MPE Application name. Additionally, a boolean "And/Or" construct exists that allows for the processes to match all or just one of the selected criteria.

The new "User" command adds more diagnostic functionality to the product by allowing GlancePlus/V to identify what processes are accessing any permanent MPE V file. Input to this command is a file name and the resultant output is a list of the accessors of the file in question.

The "Queue" command is another new feature that allows users with the proper capabilities to change the dispatch queue of a process, or all the processes belonging to a specific job or session. Thus, a system manager can immediately recognize and lower the priority of a job that is hogging a system resource.

Two new commands have been added to allow for easier transitions between screens. The "Less than" command (<) will return you to the previous screen, thus allowing users to easily switch back and forth between two screens. The "Greater than" command (>) will take users to the Process screen of the highest CPU consumer when entered in the Global or CPU displays. If ">" is entered in the Disc display, the Process screen of the highest disc consumer will be displayed and if it is entered in the Memory display, it will bring up the Tables screen.

## MODIFIED SCREENS AND COMMANDS

The Process Detail screen in GlancePlus/V has been improved by the addition of new discrete process level performance metrics and a set of new process level subcommands. Data is now available at the process level on, Dispatcher status, stack usage, and response time. New subcommands allow for display of process open file information, process family tree data, and a process procedure trace.

GlancePlus/V's on-line Help system has incorporated new features to increase functionality. A base set of softkeys provide a way to easily navigate through the most often used sections of the Help system. General guidelines are now provided on data interpretation to help direct the user on possible system performance solutions.

One change that users of Glance/V should note is the "T" command, which in Glance/V is used to change the refresh time interval. In GlancePlus/V, the "T" command is now used to access the Tables display and the "I" command is used to change the refresh time interval.

## GLANCEPLUS/V CUSTOMIZATION

Two new features allow for increased user customization of GlancePlus/V. The first is the ability to choose the "interesting process" option. GlancePlus/V, as did Glance/V, displays historical interesting process data in a push down stack display. In doing this, historical data is retained on the terminal memory with each interval separated by a blank line. This default operation can be changed to retain only the current interval's list of interesting processes. When set to this option by the use of the JCW GLANCECLEARSCREEN, screens that utilize the interesting process concept (Global, Job/Session and Filter) only retain the current interval's interesting process list.

Four new configuration values have been added to further help in identifying interesting processes. GlancePlus/V will display a process in certain screens only if it is "interesting". Usually this means the process has consumed some CPU time, performed disc I/O, or has executed some terminal transactions. The new values used to further identify these interesting processes differ slightly in that they allow for processes to become "interesting" if the process is waiting for the CPU, waiting for a disc I/O to complete, waiting for memory, or is impeded. These new "interesting" reasons allow the user to identify processes



that are waiting an excessive amount of time for critical system resources. Identifying critical processes that are waiting for resources such as the CPU allow for Operations personnel to quickly identify and proactively respond to possible performance issues.

Other new configuration values have been added to define how much data to present in the Process open files display and how often to display this data. Lastly, the new Tables display has an associated configuration value that defines how full a table should be before it is listed in the display.

# HP NewWave Office 3.0 Structured Solution

*by NewWave Office Marketing  
Pinewood Information System Division*

HP NewWave Office 3.0 is a collection of server and client services, PC networking products, the NewWave environment, and other PC applications and system services offered as a Structured Solution.

The HP Structured Solution Program (SSP) is a means for divisions to offer a related set of products in the form of a menu from which customized solutions can be selected. The customer receives a discount (solution adjustment) on all products and options selected from the SSP menu. To qualify for purchasing through the SSP and receive the solution adjustment, at least one each of the Server and Client Services must be purchased. All other products are optional.

The categories of software products available are:

- Server Information Services and System Services (required: 1)
- Client Services (required: 1)
- PC Applications (optional)
- Other Services (optional)

These services are provided for MPE XL, MPE V/E, HP-UX Series 800 and SCO UNIX/386 servers.

For details on system requirements, refer to articles or other literature specific to each component product.

## SERVER INFORMATION SERVICES AND SYSTEM SERVICES

NewWave Office has the following NewWave System and Information Services:

- The System Services provide shared file and print capability. HP Resource Sharing is the System Service available for MPE V/E.
- The Information Access Service provides client users with information from a variety of sources that may reside on the server or client. This information can be easily loaded into client applications for analysis. HP Information Access Server/V provides this service for MPE V/E.
- The Information Distribution Service provides enterprise-wide communication of information in a variety of file formats. HP DeskManager is the information distribution product available.

## CLIENT SERVICES

The NewWave Office 3.0 Structured Solution offers the following Client Services:

- Network Services 2.1
- LAN Manager client
- ARPA Services 2.1
- Network Services 2.1 for NetWare
- ARPA Services 2.1 for NetWare
- AdvanceMail
- NewWave Mail
- Information Access PC
- NewWave Access

## PC APPLICATIONS

The NewWave Office 3.0 Structured Solution offers the following PC Applications:

- AdvanceLink for DOS
- AdvanceLink for NewWave and Microsoft Windows
- NewWave 3.0 environment
- NewWave 3.0 Technical Reference

## OTHER SERVICES

The NewWave Office 3.0 Structured Solution offers the following additional services:

- HP Software Vendor provides LAN based solutions with a flexible tool to distribute PC applications from a server to user PCs. The PC applications can be either HP or third party applications. HP Software Vendor also provides features such as software user license tracking.
- A Fax Gateway is available. HP OfficeFax is used in conjunction with HP DeskManager for this service.

## CHANGES TO NEWWAVE OFFICE

Following are important differences between the NewWave Office 3.0 Structured Solution product and the previous release of NewWave Office:

- All NewWave Office 3.0 software components are ordered through the Structured Solution and are shipped, in a coordinated shipment, as individual products.
- There is no longer a NewWave Office reference manual. Instructions and procedures for installation and configuration of each software component are defined and documented by each product.
- The PC Software tape and Vectra Office Applications tape that were used with the previous release of NewWave Office are no longer provided. All PC applications are now provided on flexible disk.

## Additional Software Products

- The INSTALL utility from the previous release is replaced by a new product, HP Software Vendor, which is available as part of the NewWave Office 3.0 Structured Solution.
- There are no replacements for the Network Setup (NETSETUP) and Network Load (NETLOAD) utilities. PC networking software is now installed from flexible disk using the installation facilities provided by the PC networking software itself.
- The Server Manager (SVRMGR) and Server Setup (SVRSETUP) utilities are no longer provided.

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# HP DeskManager B.03.R0

*by Simon Boothroyd  
Pinewood Information Systems Division*

The latest version of HP DeskManager (B.03.R0) is now available and includes the following enhancements:

## **ELECTRONIC CORPORATE DIRECTORY**

HP DeskManager already provides some tools to assist in network-wide directory administration, including the remote directory updates feature. The Electronic Corporate Directory (ECD) facility builds on these tools to provide a much higher degree of automation in this task. It includes the ability to automatically send off messages to remote directory update servers to reflect local directory changes within other directories in the network. It also includes a sequencing feature, to avoid errors that might occur if a directory update request failed to arrive, or failed for some other reason.

## **PRODUCT ENHANCEMENTS**

The following describes the enhancements included with this version of HP DeskManager:

- The transport manager can now schedule the delivery of mail to up to 256 computers. (The previous limit was 128.)
- A change has been made to the name matching algorithm. Where similar names are configured within the database, a user constructing a distribution list will be asked to choose between exact matches and supersets only. Subsets will no longer be shown.
- Additional support for the IBM 3270 terminal is provided.

For more detailed information, please see the related article in the "Technical Articles" section of this *Communicator*.

# HP DeskManager Intrinsic B.03.R0

*by Simon Boothroyd  
Pinewood Information Systems Division*

The latest version of the HP DeskManager Intrinsic (B.03.R0) is now available. It provides additional support for:

- The HP DeskManager servers. This enables applications to send messages to the HP DeskManager servers (such as \*ADMIN and \*EVERYONE) via the HP DeskManager Intrinsic.
- File equations. These have been added to carry profile information to the calling application which is using the HP Desk User Intrinsic.

A new version of the *HP DeskManager:Intrinsic* manual (P/N 27562-90002) is being made available with this release.

## HP DeskManager B.03.R0

*by Simon Boothroyd  
Pinewood Information Systems Division*

The latest version of HP DeskManager (B.03.R0) is now available and includes the following enhancements:

### ELECTRONIC CORPORATE DIRECTORY

The Electronic Corporate Directory (ECD) facility adds a new service process which allows the batch update file created when using the HP DeskManager configurator (MAILCONFIG) to be distributed automatically to a pre-configured distribution list. The updates can either be sent to other HP DeskManager systems in a small network or local site, or, in larger networks, to a centralized hub for further compilation and subsequent re-distribution. Sequencing is used to automate the sending and receiving of sequenced directory updates in an HP DeskManager network.

The sequencing tools can be used on their own in a small or locally isolated HP DeskManager network. The sending and receiving of updates in this situation can be totally automated and the application of updates in the correct sequence can be assured.

Within larger networks, it will be necessary to arrange some type of central manual control mechanism. This mechanism would need to accept updates from all other nodes and collate them into a single update, and then re-distribute them to the network as a global update. This mechanism can be interfaced into HP Desk by means of the HP DeskManager Intrinsic (HP27562).

### PRODUCT ENHANCEMENTS

The following information describes in detail the product enhancements included with this version of HP DeskManager:

- The Transport Manager can now schedule the delivery of mail to up to 256 computers. (The previous limit was 128).
- An enhancement has been made to the name matching algorithm. The enhancement must be 'enabled' before going into HP DeskManager by setting a new JCW 'NAMEMATCH' to any non-zero value. Once this JCW is set, HP Desk alters the way in which it performs the first and second name comparisons. (Surname comparisons will still operate in the same way.)

If the sender, when composing a distribution list, enters the name 'Chris JOHNSON' and, on the global database, the following names were configured:

```
C      JOHNSON / MKTG / 01
Chris  JOHNSON / MKTG / 02
Christopher JOHNSON / MKTG / 03
```

the sender would be offered the choice of 'Chris JOHNSON' and 'Christopher JOHNSON' but not 'C JOHNSON'. 'Christopher JOHNSON' would be offered, as 'Christopher' is a superset of 'Chris'.

- The behavior of the User Interface has been modified when an IBM 3270 terminal is detected. Under this condition, the terminal page length is set to 999. This means that the "Press <RETURN> to continue" message does not appear when reading long items.
- The IBM 3270 terminal is now treated like a TTY device for 80 byte records.
- The IBM 3270 terminal is now supported for forms access within HP DeskManager. This is made possible by use of the SNA DHCF product.
- Modifications have been made to HP DeskManager to ensure that this version is consistent with the version submitted to MPE XL 3.0.

This version of DeskManager is recognized by displaying the version numbers of the following program modules:

```
:run hpmail.hpmail.sys,vers;lib=g
```

and checking that the version numbers match or are higher than the following:

```
B.03.R1  OPERATOR INTERFACE
B.03.R1  COMMAND PROGRAM
B.03.R5  SEGMENTED LIBRARY
B.03.R1  PAT (SUPERVISOR PROGRAM)
```

**NOTE**

No re-localization will be required for this revised B.03.R0 version since the changes are FULLY compatible with the existing localized files for these versions.

The files SUPRVISR.MAILJOB and MAILMAIN.MAILJOB have been modified and as usual customers must ensure that any customizations they have made to these files must be re-applied to the new versions of these files. Under NO circumstances should the old version of these files be used as HPDeskManager will NOT function correctly with these old files.



# PRODUCT RELEASE INFORMATION

SECTION

7

## MPE V/E PRODUCT RELEASES

The following table is a Historical/Current list of new products introduced for each MPE V/E version release for the HP 3000 Computer System. It also includes products added after this initial release of the Master Installation Tape (MIT).

MPE V/E Product Releases

V.UU.FF.	Name	Release	Product(s) Introduced/Added
E.01.00	V/R	R2548	V/P-Delta-1 equivalent HP DeskManager III
G.03.04 SUBSYS VUF = G.A3.04	V-DELTA-4: Legally Evaluated by Dept. of Defense	R28C2	Roll-in of V-Delta-3 The Legally Evaluated DOD release SUBSYS VUF = G.A3.04 HPWORD SERVICES (HP27558) HPEDIT/V (HP30316) NSPAD (NSPAD)
G.A3.04	V-DELTA-4	R2840	Roll-in of V-Delta-3 HPWORD SERVICES (HP27558) HPEDIT/V (HP30316) NSPAD (NSPAD)
G.03.05	V-DELTA-5	R2902	Roll-in of V-Delta-4 HP SRC/V (HP30234) OpenView NS DIAG Monitor (HP32051) OpenView NS Core Software (HP32052) OpenView NS PERF Monitor (HP32053)

## MPE V/E Product Releases (Continued)

V.UU.FF.	Name	Release	Product(s) Introduced/Added
G.B3.05	V-DELTA-5	GB305 (FOS)  GC305 - (SUBSYS) 11/89	Post MR build of SUBSYS to include:  BSP (HP32510) Resource Sharing (HP32597) Information Access (HP32596) Cooperative Services (HP32570) HP WordServices (HP27558) AGL (HP32122) HP DeskMon (HP27568) AdvanceMail Host (HP27504) New Wave Browsers (HP47950) HP Serial Network (HP32003A) Interactive Mainframe Facility (HP30250A) Network Services (HP32344A) Network Transport (HP32343A) NS X.25 3000/V (HP24405A) NS XL Server (HP30041A) OV Core Software (HP32052) RJE/3000 (HP30248A) SNA/LINK (HP30246A) SNA IMF (HP30247A) Workstation Configurator (HP30239A)
G.A3.06	V-DELTA-6	cancelled	Not shipped - unsupported
G.03.07	V-DELTA-7	R2927	Roll-in of V-Delta-5 and V-Delta-6 HPWORDTEXT/PC (HP27566) HP GLANCE/V (HP50733) HP BRW-Desk/V (HP35365) HP Predictive (HP51467) HP Network Predictive (HP51468) HP Desk NewWave Browsers (HP47950)* AdvanceMail Host (HP27504)*
G.03.08	V-DELTA-8	R2944	Roll-in of V-Delta-7 HP CDINSTAL (HP32437) HP-IB CD-ROM (HPC1707) HP LaserRelease MICRO 3000RX
G.A3.09	V-DELTA-9	R3010	Roll-in of V-Delta-8 HP X.400/3000 Products (HP32056A) NewWave Office (B1720A) (Incorporation of General Release Patches)
G.1P.00	Platform 1P	R3035	Roll-in of V-Delta-9 Series 6400 Model 1300H DDS

## MPE V/E Product Releases

V.UU.FF.	Name	Release	Product(s) Introduced/Added
G.20.00	Release 20	R3042	Roll-in of Platform 1P HP Search/V (HP36381A) HP Browse/V (HP36382A)
G.21.00	Release 21	R3114	Roll-in of Release 20 VPLUS/Windows (HP36393A) HP GlancePlus/V (HP50733A) HP DeskManagerPLUS (HP36567A)*

\*Product has been retrofitted on this version.



## HP POWERPATCH MIT RELEASES

Hewlett-Packard now has a new software support service, HP PowerPatch. This service provides you with the ability to order current general-release FOS and workstation patches specifically designed for your system.

HP PowerPatch is provided to those of you who have AMS or RCS software support service agreement. With HP PowerPatch you will receive the most current set of patches available for your system.

If there is an HP PowerPatch tape available for your release, it should be ordered prior to performing the installation or update. Contact your Response Center. They will inform you if there is a current patch tape for the installation/update you are planning to perform. If there is an appropriate HP PowerPatch tape, you can install it at the same time as the installation/update. These patch sets will be revised periodically and are cumulative.

## SUPPORTED RELEASES

The following matrix provides information on the supported versions of MPE V/E. It lists the currently supported MITs and the SPUs they are supported on. The matrix also provides all known factory support termination dates. A version of MPE V/E will not have factory support after its support termination date.

### SUPPORTED MIT MATRIX

MITs	V. UU. FFs	Supported Systems	Support Termination Date
V/R	E.01.00	II, III, 30, 33	MAY 1, 1991
V-Delta-4	G.03.04, G.B3.04, G.C3.04	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX	OCT 1, 1990
V-Delta-5	G.A3.05, G.B3.05	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX	SEPT 1, 1991
V-Delta-6	G.A3.06	No New Customer Products V-Delta-6 rolled into V-Delta-7	---
V-Delta-7	G.A3.07	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX	OCT 1, 1991
V-Delta-8	G.A3.08	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX	JAN 1, 1992
V-Delta-9	G.A3.09	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX	MAY 1, 1992
Platform 1P	G.1P.00	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX	**MAY 1, 1993
Release 20	G.20.00	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX	***JUL 1, 1992
Release 21	G.21.00	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX	***JUL 1, 1992

\* DOD version (G.03.04) will be supported indefinitely.

\*\* Or twelve months after the actual first customer ship date of next platform, whichever is later.

\*\*\* Or three months after the actual first customer ship date of the next platform, whichever is later.



# CATALOG OF USER DOCUMENTATION

SECTION

8

This section contains a list of customer manuals for the HP 3000 Computer System.

If your contract includes Material Based Services for your appropriate operating system and software services, you will receive both software and manual updates. For additional copies of manual updates, Manual Update Services (MUS) can be ordered.

As of this release the subscription services column of this catalog has been removed. Contact your SE for specific information about subscription services.

Manual Title	Part Number	Latest Edition	Current Update
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## FOS SYSTEM MANUALS

General Information Manual	5953-7583	10/84	
Fundamental 3000 Data Communication Handbook	5957-4634	6/84	
EDIT/3000 Reference Manual	03000-90012	8/88	
Using the HP 3000: An Introduction to Interactive Programming	03000-90121	4/79	
MPE V Segmenter Reference Manual	30000-90011	11/82	8/86
MPE V Debug/Stack Dump Reference Manual	30000-90012	8/86	
Compiler Library Reference Manual	30000-90028	11/76	
QUERY/3000 Reference Manual	30000-90042	5/87	
KSAM/3000 Reference Manual	30000-90079	8/86	
MPE V File System Reference Manual	30000-90236	10/89	
MPE V System Operation an Resource Management Reference Manual	32033-90005	10/89	
MPE V Commands Reference Manual	32033-90006	10/89	
MPE V Intrinsic Reference Manual	32033-90007	10/89	
MPE V System Utilities Reference Manual	32033-90008	10/89	
HP 3000 Guide for the New User	32033-90009	1/86	
HP 3000 Guide for the New System Operator	32033-90021	4/86	
MPE Quick Reference Guide	32033-90023	10/89	
MPE V Storing and Restoring Reference Manual	32033-90133	6/87	10/88
MPE V System Backup and Recovery User's Guide	32033-90134	6/87	10/88
MPE V Security & Accounting	32033-90136	10/88	
MPE V General User's Reference Manual	32033-90158	10/88	



Manual Title	Part Number	Latest Edition	Current Update
Data Entry and Forms Management System V/PLUS/3000	32209-90001	10/89	
Using VPLUS/V	32209-90004	8/86	
FCOPY Reference Manual	32212-90003	12/90	
Native Language Support Reference Manual	32414-90001	11/87	10/88
SORT-MERGE/3000 Reference Manual	32214-90002	9/81	9/84
TurboIMAGE Database Management System Reference Manual	32215-90050	12/85	
HP Hi-Li Reference Manual	32424-90002	11/87	

### SUBSYSTEM MANUALS

HP GlancePlus/V User's Manual	50733-90002	2/91	
HP Security Management Guide	30392-90001	10/88	
APS/3000 Reference Manual	32180-90001	11/86	
APS/3000 Quick Reference Card	32180-90002	11/86	
APS/3000 Pocket Guide Insert	32180-90003	11/86	
Flexible Discopy/3000	32199-90001	8/80	
OPT/3000 Reference Manual	32238-90001	11/86	
OPT Pocket Guide	32238-90002	11/86	
OPT Insert for MPE Pocket Guide	32238-90003	11/86	

### DATA COMMUNICATIONS MANUALS

LAN Cabling and Accessories Installation Manual	5955-7680	1/86	
LAN Link Troubleshooting Manual	5955-7681	10/86	
LAN/3000 and OfficeShare LAN/3000 Design Guide	5955-7689	11/85	
Making the LAN Connection: A Local Area Network Primer	5957-4624	9/84	

Manual Title	Part Number	Latest Edition	Current Update
NetIPC3000/V Programmer's Reference Manual	5958-8581	7/90	
NS3000/V Migration Guide	24405-90001	10/90	
NS X.25 3000/V Link Guide	24405-90002	7/90	
DSN/RJE 2780/3780 Emulator Reference Manual	30000-90047	2/82	7/83
Point-To-Point Workstation I/O Reference Manual	30000-90250	12/84	4/87
ATP for Meridian SL-1 Interface Supplement to the ATP Installation Manual	30144-90016	4/86	
Workstation Configurator Reference Manual	30239-90001	10/89	
LANIC Installation and Service Manual (Series 39, 4X, or 6X)	30242-90001	2/85	5/87
LANIC Installation and Service Manual (Series 37)	30242-90100	5/85	
Getting Started With SNA Node Management	30246-90002	10/88	
SNA Link Services Reference Manual	30246-90003	10/88	
Installing and Troubleshooting SNA IMF Node Manager's Guide	30247-90002	1/85	
MRJE User/Programmer's Reference Manual	30249-90001	4/88	
IMF User/Programmer Reference Manual	30250-90001	5/87	
LU 6.2 Base Node Manager's Guide	30252-90001	4/88	
LU 6.2 API Node Manager's Guide	30253-90002	4/88	
APPC Subsystem On MPE V Node Manager's Guide	30253-90004	8/90	
Digital Multiplexed Interface (DMI) Reference Manual	30288-90001	6/86	
HP SNA Products: (w/binder) kit contents:	30291-61005	8/90	
Manager's Guide		(8/90)	
ACF/NCP & ACF/VTAM Guide		(8/90)	
Job Entry Subsystems Guide		(12/87)	
IMS Guide		(4/88)	
CICS Guide		(8/90)	
DISOS Guide		(8/90)	
SNA NRJE Node Manager's Guide (w/binder)	30292-61000	4/90	

Manual Title	Part Number	Latest Edition	Current Update
SNA NRJE User Programmer Reference Manual (w/binder)	30292-61001	4/90	
SNA IMF User/Programmer Reference Manual (w/binder)	30293-61004	12/90	
LU 6.2 API Application Programmer's Reference Guide	30253-90001	11/89	
RJE User/Programmer Reference Manual (w/binder)	30295-61001	8/90	
HP X.400/HPDesk Node Administrator's Guide	32055-90001	10/89	
HP AdvanceNet Using HPDesk Manager Connected to X.400	32055-90002	10/89	
DS/3000 HP 3000 to HP 3000 User/Programmer Reference Manual	32185-90001	12/85	7/87
DS/3000 HP 3000 to HP 1000 User/Programmer Reference Manual	32185-90005	12/85	
X.25/Link for the HP 3000 Reference Manual	32187-90001	12/85	1/89
DSN/DS 3000 Reference Manual	32190-90001	9/82	
DSN/DS 3000 To 1000 Reference Manual	32190-90005	1/82	
DSN/X.25 For the HP 3000 Reference Manual	32191-90001	2/84	
DSN/MRJE Multileaving Remote Job Entry	32192-90001	8/84	
DSN/MTS Multipoint Terminal Software Reference Manual	32193-90002	8/82	2/84
NS3000/V User/Programmer Reference Manual	32344-90001	7/90	
NS3000/V Network Manager Reference Manual Volume 1	32344-90002	7/90	
NS3000/V Error Message and Recovery Manual	32344-90005	7/90	
NS3000/V Network Manager Reference Manual Volume II	32344-90012	7/90	
NetDelivery Intrinsic Reference Manual	32346-90001	4/89	
NetDelivery Error Message Manual	32346-90003	4/89	
Getting Started with NetDelivery Intrinsic	32346-90004	4/89	
NetDelivery Configuration Planning Guide	32346-90005	4/89	



Manual Title	Part Number	Latest Edition	Current Update
NetDelivery Utility Commands Reference Manual	32346-90006	4/89	
NetDelivery/V Self-Paced Customer Training	32346-91001	9/87	
Repeater Installation Manual	92223-90002	11/85	12/88

## PROGRAMMER PRODUCTIVITY TOOLS MANUALS

TRACE Reference Manual	03000-90015	6/76	
HP SRC User's Guide (w/binder) <i>binder contents:</i>	30234-60002	11/88	
<i>HP SRC User's Guide</i>		(11/88)	
<i>HP SRC Implementation Guide</i>		(11/88)	
<i>HP SRC Quick Reference Card</i>		(11/88)	
<i>Getting Started with HP SRC</i>		(11/88)	
HP Software Revision Controller/V Product Information Update	30234-90006	9/89	
HP EDIT Binder Kit	30316-90001	12/90	
Learning HP EDIT	30316-90002	12/90	
HP EDIT Quick Reference Guide	30316-90005	12/90	
Virtuoso Code Generator Reference Manual (w/binder)	30422-60001	10/89	
Virtuoso COBOL Sample Library Reference Manual (w/binder)	30426-60001	5/88	
Database Utilities Reference Manual	32244-90012	12/85	
REPORT/V User's Guide	32245-90001	2/85	
INFORM/V User's Guide	32246-90001	3/88	
Getting Started with TRANSACT (w/binder)	32247-60002	5/85	9/88
TRANSACT/V Reference Manual	32247-90001	11/87	10/89
HP TOOLSET Reference Manual	32350-90001	1/84	
Using Information Access PC	B1716-90014	2/90	
Information Access PC Connections and Batch Files	B1716-90015	2/90	

Manual Title	Part Number	Latest Edition	Current Update
Learning Information Access PC	B1716-90016	2/90	
Information Access PC Installation Card	B1716-90017	2/90	
Information Access Server: System Management	B1716-90018	2/90	
Information Access Server: Error Messages	B1716-90019	2/90	
Information Access Server: Database Administration	B1716-90020	2/90	
Information Access Server: Master Index	B1716-90022	2/90	
Information Access Server: Learning the Administrator Utility	B1716-90023	2/90	
Information Access Server: Planning and Configuring	B1716-90024	2/90	

## INFORMATION MANAGEMENT SERIES MANUALS

Dictionary/3000 Reference Manual (w/binder)	32244-61000	12/87	
HP System Dictionary/V SDMAIN Reference Manual	32254-90001	12/86	8/87
HP System Dictionary Intrinsic Reference Manual	32254-90002	12/86	8/87
HP System Dictionary Utilities Reference Manual	32254-90003	12/86	11/87
HP System Dictionary General Reference Manual Volume 1	32254-90004	12/86	8/87
HP System Dictionary General Reference Manual Volume 2	32254-90005	12/86	11/87
HP System Dictionary COBOL Definition Extractor Reference Manual	32255-90001	12/86	11/87
VISOR Tutorial Kit	32425-60001	10/88	
<i>Kit contents:</i>			
<i>Introduction to VISOR</i>		(10/88)	
<i>Using EZAccess</i>		(10/88)	
<i>Using SQLAccess</i>		(10/88)	
<i>Reporting with EZReport</i>		(10/88)	
<i>Advanced VISOR Functions</i>		(10/88)	
<i>VISOR Reference Information</i>		(10/88)	
TURBOIMAGE DBchange/V User's Guide	36020-90001	1/87	

Manual Title	Part Number	Latest Edition	Current Update
HPSQL/V SQL Reference Manual	36215-90001	9/87	
HPSQL/V ISQL Reference Manual	36215-90002	9/87	
HPSQL/V Database Administration Guide	36215-90003	9/87	
HPSQL/V COBOL Application Programming Guide	36215-90004	9/87	
HPSQL/V Message Manual	36215-90005	9/87	
HPSQL/V Quick Reference Guide	36215-90006	9/87	
HPSQL/V Pascal Application Programming Guide	36215-90007	9/87	
TurboIMAGE Profiler User Guide	36914-91001	12/85	

## LANGUAGE MANUALS

BASIC for Beginners	03000-90025	11/72	
FORTRAN 77 Reference	5957-4685	5/88	
FORTRAN 77 Programmer's	5957-4686	3/87	11/87
FORTRAN 77 Quick Reference Guide	5957-4687	1/88	
FORTRAN/3000 to HP FORTRAN/77 Conversion Guide	5957-4690	6/87	9/87
Cooperative Services: Using Basic Serial Connection Reference Manual	5957-9336	1/89	
SPL Reference Manual	30000-90024	2/84	
SPL Language Textbook	30000-90025	6/76	9/77
BASIC Interpreter Manual	30000-90026	6/76	11/86
Scientific Library Reference Manual	30000-90027	6/76	9/77
FORTRAN Programmer's Guide	30000-90040	6/87	
HP FORTRAN 77/V Reference Manual Supplement	30000-90294	5/88	
HP FORTRAN 77/V Programmer's Guide Supplement	31501-90005	3/87	6/87
SPL Pocket Guide	32100-90001	11/76	

Manual Title	Part Number	Latest Edition	Current Update
FORTTRAN Pocket Guide	32102-90002	5/79	
BASIC Compiler Reference Manual	32103-90001	11/74	9/77
RPG/V Reference Manual	32104-90001	12/88	9/89
RPG Listing Analyzer	32104-90003	2/84	
RPG Utilities Reference Manual	32104-90006	12/88	
Pascal Reference Manual	32106-90001	10/83	
Pascal Pocket Guide	32106-90002	10/83	
HP Business BASIC Reference Manual	32115-90001	8/86	9/87
HP Business BASIC Quick Reference Guide	32115-90002	7/85	8/87
HP Business BASIC Programmer's Guide	32115-90003	8/86	7/87
BASIC/V to HP Business BASIC Conversion Guide	32115-90004	8/86	9/87
BASIC/260 to HP Business BASIC Conversion Guide	32115-90005	8/86	7/87
Using COBOL: A Guide for the COBOL Programmer	32213-90003	3/78	
COBOLII/3000 Reference Manual	32223-90001	5/89	
COBOL/3000 to COBOLII/3000 Conversion Guide	32233-90005	12/79	
Cooperative Services: Pascal Reference Manual	32570-90032	1/89	
Cooperative Services: Developer's Guide	32570-90033	1/89	
Cooperative Services: 'C' Language Reference Manual	32570-90034	1/89	
Cooperative Services: COBOL Reference Manual	32570-90035	1/89	

Manual Title	Part Number	Latest Edition	Current Update
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## ADDITIONAL SOFTWARE PRODUCTS MANUALS

HPCopycat/3000 Reference Manual	19550-90901	10/88	
Administrator's Guide to HPConvert/WPS	27500-90001	1/85	
HPConvert/DCA Document Conversion Guide	27509-90001	12/85	
Administrator's Guide to HPOffice Connect to DISOSS	27515-90001	10/86	
Using HP DeskManager Connect to DISOSS	27515-90004	10/86	
Using DISOSS Connected to HP DeskManager	27515-90006	10/86	
Using HP DeskManager Connected to the IBM Professional Office System	27521-90004	1/86	
Using the IBM Professional Office System Connected to HP DeskManager	27521-90005	1/86	
HP DeskManager: Intrinsic	27562-90002	1/90	
HPDRAW Reference Manual	32108-90001	12/83	
HPEASYCHART Reference Manual	32109-90001	1/84	
HPMenu Reference Manual	32112-90000	1/83	
HPMenu Administrator's Manual	32112-90001	6/83	
HPMenu Quick Reference Guide	32112-90002	6/83	
HPMap/3000	32113-90001	7/85	
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