

COMMUNICATOR 3000
MPE V Release 40, Version G.40.00

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HP 3000 Commercial Systems
COMMUNICATOR 3000

MPE V Release 40 (Version G.40.00)



HP Part No. 32033-90405
Printed in U.S.A. August 1995

R3532

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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: <pre>EXIT;</pre>
<i>italics</i>	Words in syntax statements which are in italics denote a parameter which must be replaced by a user-supplied variable. For example: <pre>CLOSE <i>filename</i></pre>
[]	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: <pre>[A] User may select A or B or neither. [B]</pre>
{ }	When several elements are stacked within braces in a syntax statement, the user must select one of those elements. For example: <pre>{ A } { B } User must select A or B or C. { C }</pre>
...	A horizontal ellipsis in a syntax statement indicates that a previous element may be repeated. For example: <pre>[, <i>itemname</i>] . . . ;</pre> <p>In addition, vertical and horizontal ellipses may be used in examples to indicate that portions of the example have been omitted.</p>
,	A shaded delimiter preceding a parameter in a syntax statement indicates that the delimiter <i>must</i> be supplied whenever (a) that parameter is included or (b) that parameter is omitted and any <i>other</i> parameter which follows is included. For example: <pre><i>itema</i>[, <i>itemb</i>] [, <i>itemc</i>]</pre> <p>means that the following are allowed:</p> <pre><i>itema</i> <i>itema</i>,<i>itemb</i> <i>itema</i>,<i>itemb</i>,<i>itemc</i> <i>itema</i>,,<i>itemc</i></pre>
□	When necessary for clarity, the symbol □ may be used in a syntax statement to indicate a required blank or an exact number of blanks. For example: <pre>SET[(<i>modifier</i>)]□(<i>variable</i>);</pre>

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 inverse video on the terminal's screen. In addition, it is used to emphasize 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.

CONTROL char

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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Introduction

Introducing MPE V Release 40

MPE V keeps getting better! Release 40 is a testimonial to Hewlett-Packard's continued investment in MPE V. We understand that MPE V customers are concerned about future support for their MPE V systems and that satisfied MPE V customers with HP 3000 classic systems may not be ready to migrate to MPE/iX. Be assured that the Support Technology Center (STC) is committed to investing software development and support resources to meet the ongoing needs of our customers. This latest release of MPE V demonstrates the effort the team has invested in providing additional enhancements and quality improvements to continually improve the reliability and stability of MPE V.

In addition to the MPE V subsystem enhancements for Release 40, a new process to update MPE V systems, called the *MPE V Turbo Update process*, has been developed for Release 40. The new update process will reduce installation time and increase system up-time for this release, as well as all future releases of MPE V. The Turbo Update process is described in more detail in a separate article in this Communicator.

HP continues to take customer feedback seriously. Many of the improvements included in Release 40 were prioritized based on customer input from multiple sources, including the Interex Special Interest Groups (SIG) and the Interex System Improvement Committee (SIC) surveys. We value customer feedback and it will continue to be our main source of input for prioritizing future efforts.

HP's continued investment in MPE V development and maintenance activity, makes it clear that HP is committed to supporting the MPE V platform. You can be confident that Hewlett-Packard will continue to provide the exceptional support that HP is famous for, as long as customers need it. And when you are ready to migrate to MPE/iX systems for increased performance and functionality, we will help ensure that the migration path remains simple for you.

Introducing the New Turbo Update Process

by

Len Croley

Support Technology Center

The MPE V development team is working hard to make updating your MPE V system easier and faster. Through continued product development and dedicated resources, a new process to update MPE V systems has been developed which will reduce installation time and increase system up-time. This new update process is called the MPE V Turbo Update process.

The MPE V Turbo Update process is a simplified and much faster method of updating your system. The Turbo Update process is a way of installing the files and system SL segments needed to update MPE V and purchased subsystems to the latest release level. With the new Turbo Update process only one set of tapes called the Turbo Update Master Tapes will be needed. With these tapes, all purchased subsystems will be selectively updated without the need for customized subsystem tapes that have been the practice in the past. The same Turbo Update Master Tape can be used to update any MPE V system on Release 2P or later.

Some of the advantages of the new Turbo Update process are:

- The system is shut down and updated one time instead of the two times needed for AUTOINST.
- The amount of time needed to update a system has been reduced.
- The system SL is not replaced. Instead, changes are made to the existing system SL.
- Third party applications or in-house applications that have segments in the system SL do not have to be re-installed unless those applications directly replace MPE segments. (If there are any questions about this, contact the company that developed the application.)
- Creation of the standalone diagnostic tape can be done after the system is back in operation and while other users are logged on to the system.
- The MPE V Turbo Update process can be used to update any version of MPE V from Release 2P or later. Though the installation process has changed, multiple processes will not be needed to get up to the latest version of MPE V because future releases of the Turbo Update process will update supported releases from Release 2P and newer.

It is easy to get help with this new process. Online help is available which can provide either a few lines of information, or access to the on-line Software Update Manual Using Turbo Update manual.

Listed below are the longest times it should take to update a system with disk caching enabled. These times include time to read and follow the update manual while doing the process. It does not include the time required to do a full backup of the system before starting the process or the time to create the standalone diagnostic media. Other factors affecting the times are the types of disk drives on the system, whether disk caching is on the system, and the type of tape drive being used both to read the Turbo Update Master Tape and to accomplish the SYSDUMP/UPDATE operation. (The same tape drive does not have to be used for both operations.)

System Type	Estimated Time
Micro/3000	2 1/2 Hours
S/4x	2 Hours
S/5x	1 3/4 Hours
S 64/68/70	1 1/2 Hours

The Turbo Update tape cannot be used to install MPE V or subsystems for the first time. Neither can the tape be used to install add-on product(s). Please refer to the sections below for help installing MPE V or subsystems for the first time, adding on products, and updating systems on Releases earlier than Release 2P to Release 40.

Many of the documents have also been improved with the MPE V Turbo Update process. The Software Release Bulletin is included in this Communicator 3000 for MPE V Release 40. It is also available through the on-line Turbo Update help facility. The installation, add-on, and update manuals, including the CD ROM manuals, will not be needed for the Turbo Update process. The new HP3000 Software Update Manual for MPE V Releases Using Turbo Update will be the only manual needed for the Turbo Update process. This new manual will be available in hard copy and on LaserROM. Many parts of the Communicator will continue to be available through Support Line, or via HPFirst (FAX Information Retrieval System Technology at (800) 333-1917.

Improved Remote Site Copy Process

Customers who used HPTapeMaker to make customized tapes for their remote sites will find that the new Turbo Update process has a faster and easier to use process to make tapes for remote sites. No longer will HPTapeMaker customers have to copy the FOS tape, then create customized tapes for their remote sites.

Because all purchased subsystems will be selectively updated without the need for customized subsys tapes, HPTapeMaker will no longer be needed. The new Turbo Update process allows customers to simply make copies of the tapes using the TUCOPY program. No customization is required. The TUCOPY program is included on the Turbo Update master update tape!

Installing MPE V and Subsystems for the First Time

As mentioned, the Release 40 Turbo Update process was designed to update MPE V systems which are already on Release 2P or later, by selectively updating all purchased subsystems. The traditional MPE V installation processes and documentation (used for Releases before Release 40) must be used to install MPE V and subsystems for the first time. Once MPE V Release 2P or newer has been installed, the Release 40 Turbo Update process can be used to update the system to Release 40 level.

Adding on a Product

If the System is on Release 40 or Later

If your System is already running MPE V Release 40 or later, you need to do the following steps in order to ADD-ON a product:

1. When purchasing another subsystem, you will be asked what version of MPE V you are currently running. You should specify that you want the subsystem for MPE V Release 3P. The subsystem software will be sent to you on a separate tape.

2. Using the Release 3P subsys tape that contains the product(s) that you will be adding to your system, run AUTOINST using the ;INFO="ADD-ON" run time parameter, as documented in the HP 3000 Software Add-On Manual (32033-90048).
3. Update your system to the latest MPE V version using the "HP 3000 Software Update Manual for MPE V Releases Using Turbo Update manual" (32033-90406).

If the System is on Release 3P

If your System is running MPE V Release 3P, you need to do the following to ADD-ON a product and update to Release 40 using the Turbo Update process:

1. When purchasing another subsystem, you will be asked what version of MPE V you are currently running. You should specify that you want the subsystem for MPE V Release 3P. The subsystem software will be sent to you on a separate tape.
2. Using the Release 3P subsys tape that contains the product that you will be adding to your system, run AUTOINST using the ;INFO="ADD-ON" run time parameter, as documented in the HP 3000 Software Add-On Manual (32033-90048).
3. Update your system to the latest MPE V version using the "HP 3000 Software Update Manual For MPE V Releases Using Turbo Update" manual (32033-90406).

If the System is on Release 2P, 30 or 31

To do an ADD-ON installation of a new product with the Turbo Update process, your system must first be on Release 3P or later (accomplished through the following steps). If you are on Release 2P, 30 or 31, you need to do the following steps in order to ADD-ON a product:

1. When purchasing another subsystem, you will be asked what version of MPE V you are currently running. You should specify that you want the subsystem for MPE V Release 3P. The subsystem software will be sent to you on a separate tape.
2. Update your system to the latest MPE V version using the "HP 3000 Software Update Manual For MPE V Releases Using Turbo Update" manual (32033-90406). In order to ensure that there are no version mismatches, it is important to update your system using the Turbo Update process BEFORE installing your new subsystem with AUTOINST.
3. Using the Release 3P subsys tape that contains the product that you will be adding to your system, run AUTOINST using the ;INFO="ADD-ON" run time parameter, as documented in the HP 3000 Software Add-On Manual (Release 3P part number 32033-90048).
4. Update your system to the latest MPE V version using the "HP3000 Software Update Manual For MPE V Releases Using Turbo Update" manual (32033-90406). In order to ensure that there are no version mismatches, it is important to update your system using the Turbo Update process again AFTER installing your new subsystem with AUTOINST.

Updating a Pre-Release 2P System

The Turbo Update process is designed to more quickly update systems which are on MPE V Release 2P and later. To update a system which is on a release of MPE V before Release 2P, you will need to do the following steps:

1. You will need to order a set of tapes to update your system to MPE V Release 3P. (We recommend using Release 3P instead of Release 2P since Release 3P will be available to order, and supported longer than Release 2P.) You will receive an MPE V FOS tape and a tape containing your purchased subsystems (the SUBSYS tape).

If you are also adding a product that you have just purchased, the fastest way to accomplish the update is to insure that the newly purchased product is on the subsystem tape with all of your previously purchased products. This will save you the step of doing a separate AUTOINST installation of the Add-On product.

2. Using the Release 3P FOS and SUBSYS tapes, run AUTOINST as documented in the HP 3000 Software Update Manual (32033-90036).
3. If you have Add-On subsystems, follow the instructions for Adding on a product using the HP 3000 Software Add-On Manual (32033-90048).

This step can be skipped if the subsystem tape used in step 2 above already contains your newly purchased product. You can verify this by checking that the list of products contained on the subsystems tape contains the newly purchased product. If it does not, you will need to order a subsystems tape with your newly purchased product and perform the Add-On installation using AUTOINST.

4. Update your system to the latest MPE V version using the "HP 3000 Software Update Manual For MPE V Releases Using Turbo Update" manual (32033-90406).

HP Documents Available via FAX!

Introduction

Do you need information right away? Are you working at times when no one else is available and you need some answers? Current system news, product data sheets, and other information is available to you 24 hours a day, 7 days a week with just a phone call! With HP FIRST (Fax Information Retrieval System Technology), information is available to you now, when you need it.

What is HP FIRST?

HP FIRST is an automated fax system that allows you to retrieve the information you want by calling a toll free 800 number (it is a toll call for non U.S. and Canada callers). The recorded messages will guide you through the menu selections and the associated numbers to press on your touch tone phone.

How to Use HP FIRST

To receive a fax containing the information you're interested in, you must first know the ID number of that document or index. The document IDs are listed in indexes, which have been organized by topic. Examples of the indexes which are currently available are:

- ▶ Personal Computer Printers, Plotters, Scanners, OfficeJets, Fax etc.
- ▶ Mobile Computing, Personal Computers and their Networking Products
- ▶▶ **HP 3000, HP 9000 series 800 and related hardware and software products**
- ▶ HP Service and Support for Multivendor Environments
- ▶ Telecommunication and Networking Products
- ▶ Workstations, XStations and Real Time Environments
- ▶ Information about Channel Partner programs

(▶▶ This index contains a list of the MPE information available.)

To request the HP3000, HP9000 series 800 index, for example, call the **new** HPFirst phone number:

1-(800) 231-9300 in the U.S. or Canada,

or

1-(404) 329-2009 outside of the U.S. or Canada,

using a push button telephone or FAX machine. Follow the directions which guide you to the "*index listing area*". Note the ID numbers of the indexes you wish to receive.

Additional prompts will direct you to the "*document ordering area*" to order up to five documents (including indexes) at one time. When requested, enter your FAX number, beginning with the area code, then press the # key. You should receive the documents you requested within minutes!

To order a document listed on the index, follow the recorded messages to the "*document ordering area*" and enter the document ID listed on the index you just received. Then when requested, enter your FAX number, beginning with the area code and followed by the # key.

Try HP FIRST and let us know what you think. You can reach us by sending a fax to MPE V Support,

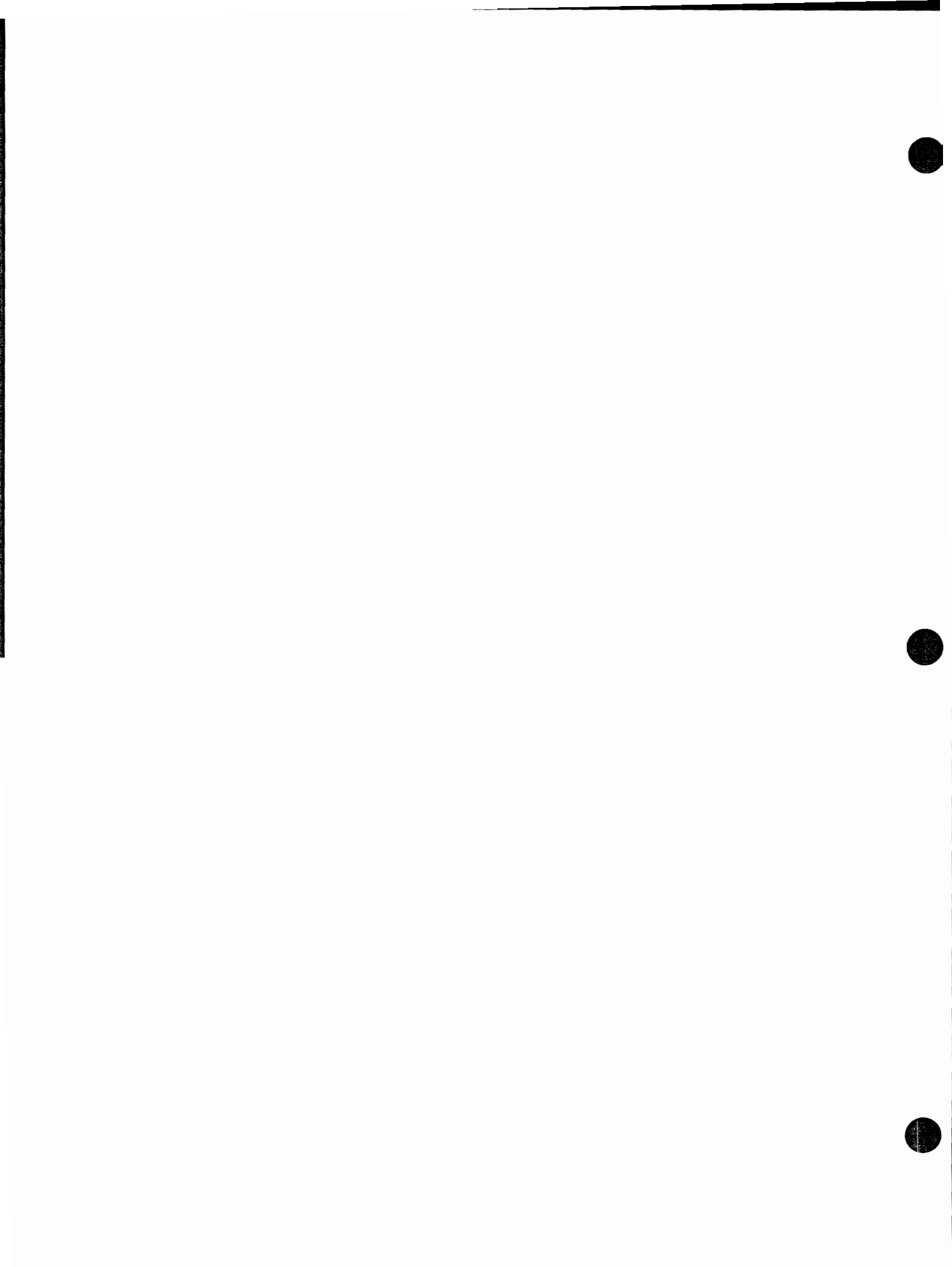
Fax Number: (916) 785-9238

or send note to us at the following address:

Hewlett-Packard
8000 Foothills Blvd.
Roseville, CA 95747-5617 USA

Attn: MPE V Support mail stop 5617

You can also reach us at the above locations if you have comments or suggestions for how we can improve our communication with you, our MPE V customers.



System Information

SPOOK5 (SPooler IOOKup) Utility Enhancements

by

Len Croley

Support Technology Center

Introduction

One of the most used MPE V utilities is SPOOK5 (so named because it can look up ghost spool files which are files that cannot be seen with the MPE LISTF command). It is also one of the utilities with the most enhancement requests. This release of MPE implements a number of enhancements that are discussed below.

HELP Facility is Kept Up-To-Date

As enhancements have been added, the new (as of Release 31) HELP facility contains all information that would be in a manual for the utility, only it is easier to access. Since there are no plans at this time to update the MPE V Utilities manual, the SPOOK5 HELP facility is being kept up-to-date with all of the latest commands, command parameters and other information including usage examples. The descriptions of the enhancements discussed below are only brief descriptions. You are encouraged to use the SPOOK5 HELP facility to get the full details of the enhanced commands.

VERIFY Command Added

With all of the new controls the user has with the MODE/SET commands, it is easy to forget just how the controls are currently set. A new VERIFY command was added which lists the values as they are currently set. The VERIFY command has no parameters and can be abbreviated as just "V". Also, both the MODE and SET commands were modified so that if the commands were issued without any parameters the VERIFY command is executed instead of giving the user an error message. Therefore, there are now 3 ways to get a listing of the MODE/SET parameter value settings:

1. Issue the VERIFY command.
2. Issue the MODE command without any parameters.
3. Issue the SET command without any parameters.

RUN Command Enhancement

If you created a SPOOK5 son process using the SPOOK5 RUN command and then exit back to the father process, the way to get back to the son process was to use the command RUN *. The RUN command has been enhanced so that if the RUN command is issued without any parameters, it defaults to the RUN * command.

PURGE and DELETE Command Enhancement

In order to purge the current file that has been TEXTed, the command PURGE * or DELETE * would need to be issued. The PURGE and DELETE commands have been enhanced so that if the commands are issued without any parameters they would default to the PURGE * and DELETE * commands.

FIND Command Enhancements

The FIND command has been enhanced so that the output can be listed without line numbers. The format of the command is:

```
FIND [C] "string"      [,range]
                        [,UNN]
                        [,ALL]
```

If the UNN parameter is specified, the lines containing the specified string will be displayed without the line numbers. This is handy if the length of the lines are the same length as the terminal display because you will not get wrap around on the text. Also, it is handy if you are only interested in the text of the lines where the string appears and do not care about the line numbers.

This feature can also be controlled by the MODE/SET command parameter QUIET=ON/OFF. The default for this parameter is OFF. If QUIET is set to ON, then every time the FIND command is issued, the lines containing the specified string will be listed without line numbers regardless of whether the UNN parameter was specified or not. This means that the QUIET parameter of the MODE/SET command now controls whether line numbers are listed for both the FIND and the LIST commands. If you are not sure of the current value of the QUIET parameter, use the new VERIFY command to see how it is currently set.

The FIND command has also been enhanced by providing control of how much of the line to search for the specified string with two new MODE/SET command parameters. The way the FIND command worked before this enhancement was that unless the "@" parameter was specified, the FIND command would only search for a match of the specified string starting in the first column that contained a valid alphanumeric character. In order to get the FIND command to search the entire length of each line, you had to specify the "@" parameter of the FIND command. Now, you can use the command

```
MODE/SET FIND@=ON
```

or

```
MODE/SET @=ON
```

to set the "@" parameter of the FIND command so that it will always search the entire length of each line without having to specify the "@" parameter of the FIND command each time you issue the command. Once FIND@/@ parameter of the MODE/SET command has been set to the ON state, you will have to set it to the OFF state in order to restrict the FIND

command to just searching for a match starting with the first alphanumeric character. The current state of this parameter can be seen with the new VERIFY command.

SPOOK5 Now Recognizes the ;INFO= Parameter of the MPE RUN Command

SPOOK5 has been enhanced so that you can pass a single SPOOK5 or MPE command to the SPOOK5 utility by using the ;INFO= parameter of the MPE RUN command. For example you can set up a UDC for the SPOOK5 utility so that it will always do the SPOOK5 SHOW command every time you use the UDC. To do this, in the UDC specification, issue the following command:

```
RUN SPOOK5.PUB.SYS;INFO="SHOW @.@"
```

The New USE Command for SPOOK5

SPOOK5 was enhanced to include the new USE command. The format of the new command is:

```
USE filename
```

filename The file name is the name of a file that contains one or more SPOOK5 or MPE commands to be executed by the SPOOK5 program.

When this command is issued, it will open the specified file, read each line, and executes the command as a SPOOK5 command. If it is not a valid SPOOK5 command, it will try to execute the command as an MPE command. When the command has finished executing all of the commands found in the specified file, the user is returned back to the SPOOK5 prompt so that another command can be issued. The REDO command is the only command that cannot be issued in a USE file. If the EXIT or QUIT commands are issued from a USE file, the SPOOK5 program will be terminated according to the usage of those commands (refer to the EXIT and QUIT commands for further details).

The USE file can either be an unnumbered or a numbered file, but you are encouraged to use unnumbered files. If the last 8 characters of the USE file are all numbers, the command assumes that the file is a numbered file and places a carriage return character in the command line over the first digit of the 8 numbers to terminate the command so that the SPOOK5 command parser will not try to use the line number as part of the command.

If the USE command is used in a USE file, it must be the last command in the file because the command will not return back to the first USE file. For example, if the command USE USE1 was issued and the file USE1 contained the commands S@.@ USE USE2 V (SHOW, USE, and VERIFY commands on separate lines), the VERIFY command would never be executed.

For example, perhaps each time you want to run the SPOOK5 program, you want certain flags set different than the default. To do this, create an MPE UDC that issues the command RUN SPOOK5.PUB.SYS;INFO="U STARTUP". The contents of the file STARTUP might then be the following:

```
M Q=ON
M S=OFF
M @=OFF
V
```

The terminal or workstation screen would show the output of the VERIFY command followed by the SPOOK5 prompt and the SPOOK5 program would be ready to accept another command.

Problems Fixed in this Version

A problem where if the user tried to text a file and did not have access capabilities, the message **File Not Found** was printed is fixed by now printing a message of **Insufficient Capabilities**.

A problem was fixed where SPOOK5 would abort if the NLS default language configured on the system was not zero and the correct language message catalog did not exist on .PUB.SYS.

A problem was fixed where if the user listed the contents of a file without line numbers (,UNN or MODE QUIET=ON) then blank lines would not be displayed.

A problem was fixed so that open files are now ignored by the DELETE command rather than print an error message.

If an MPE command was issued from SPOOK5 and an error occurred, a message from both MPE and SPOOK5 appeared on the terminal. SPOOK5 will no longer issue an error message.

A problem was fixed so that the command OUTPUT @.@;OFFLINE now works instead of giving an error message.

The format of the information displayed about the files on the PURGE and DELETE commands were different. This has been corrected so that the file information is the same for both commands.

SPOOK5 has been changed so that locked files will not get deleted with the PURGE/DELETE commands. Before this fix, if one user had the file locked by using the SPOOK5 TEXT command, another user could PURGE or DELETE the file.

The format of the information displayed about files altered with the SPOOK5 ALTER command would be different if the user issued the command AUSR.ACCT than if the user issued the command A@.@. This has been corrected so that the file information is the same for both commands.

A problem with the OUTPUT command that only exists in the Release 3P version of the SPOOK5 utility was fixed. This problem would show up as not being able to INPUT files from an OUTPUT tape when the files are specified by dfid (device file ID) using the INPUT command. The work around is to INPUT all files and DELETE the files not wanted. The problem is that the tape created by the OUTPUT command is not written correctly if the file specification used in the OUTPUT command included OPEN spool files. The data in the files is good, but the correct file could not be found when brought into the system using the INPUT command and specifying the file by its dfid number. If you are not ready to install the version of MPE that includes this fix and are having this problem, a patched version of SPOOK5 can be obtained from the Response Center.

A problem was fixed where the specification of the line width set using the MODE/SET WIDTH= command would always be taken as the number of words regardless of whether the line width was specified as a positive number or a negative number. This is now fixed so that if the value is positive, the value is the number of words and if the value is negative, the value is the number of characters (bytes). If an odd number of characters is specified, the number of characters will be rounded down to the next even number. This is because the value displayed by the VERIFY command is the number of words.

Additional Software Products

Transact/V Receives Numerous Defect Fixes

by

Bill Toms

Support Technology Center

Introduction

This release of Transact/V (32247A, version A.10.02) contains 28 defect fixes. The following paragraphs are intended to give Transact programmers some insight into the areas of the product most affected. Please refer to the Software Release Bulletin for more details on these fixes and all the other fixes.

DISPLAY Verb

Several defects related to the DISPLAY verb have been corrected. These include problems with the NEED and ROW options and also the CCTL option of the FORMAT verb. Some problems with page breaks and numbering were also fixed. Some of these problems only existed when displaying to a file.

KSAM File Usage

Several defects have been fixed related to KSAM files and dealing with incorrect or incomplete retrievals, incorrect matching, partial keys, and problems where the items are not specified in the same order as the physical record.

PASSWORD in a Called Subprogram

Two defects have been corrected concerning the result of a

```
LIST item,PASSWORD;
```

statement in a called subprogram where the password was a parameter in the CALL statement. Transact/V and Transact/iX are now more consistent with each other and the reference manual.

LET Verb

Several error situations with the LET statement have been fixed. Also a LET of a zero from a numeric type to an X or U type now results in a single ascii zero instead of all blanks.

Inform/V Receives Several Defect Fixes

by

Bill Toms

Support Technology Center

Introduction

This release of Inform/V (32246A, version A.10.00) contains 12 defect fixes. The fixes may affect your current set of reports. The following paragraphs describe the corrections made to Inform/V for the highest priority problems reported by customers. Please refer to the Software Release Bulletin for more details on these fixes and all the other fixes.

Note To take advantage of some of the changes, you may need to re-create or modify affected reports.

Different Driving File May Be Selected

Inform/V now selects the driving file as shown in the Inform/V Reference Manual on pages 11-21 and 11-22. Be aware that your reports may change if your Inform groups contain elements with the same link values and/or no file owners. The previous versions of Inform/V (A.08.05) selected the first possible file as its driving file. It has been changed to select the best file for its driving file. You may need to make adjustments in your Inform groups via DICTDBM if reports are not displaying the expected information.

See the Inform/V Reference Manual chapter 11 for information on creating Inform groups and selecting a driving file. Similar information is also included in the Dictionary Reference Manual pages 3-14 to 3-20 and Appendix D.

SET OPTIONS Menu Changed

The SET OPTIONS menu in Inform/V has changed. There is a new prompt for the display length of a calculated field. This allows you to avoid DECIMAL OVERFLOW errors on a user-defined item by expanding the item's definition to fit the data.

Note If you have batch jobs which access the SET OPTIONS menu, you will need to add another response.

Signed and Unsigned P and Z Type Key Items Considered Equal

Inform/V no longer differentiates between a signed and an unsigned positive number for key items of type P (packed) or Z (zoned). For example, selecting such an item with a value equal to 123 in the selection criteria will now find all those items equal to either 123 or +123. This can be very important since P and Z type item values entered using QUERY may include a plus sign.

Miscellaneous Selection Processing Improvements

Some additional miscellaneous problems with selection processing have also been corrected. Two of these problems involve 8 and 12 byte integers. Another two involve the use of wild-card characters in the selection criteria.

HP Business BASIC

by

Sue Meloy

Support Technology Center

Introduction

HP Business BASIC version A.02.12 is available for MPE V Release 40. This version incorporates several defect fixes and two enhancements.

The Business BASIC HELP NEWS command describes the contents of this version in more detail, including the list of defects fixed. Several aborts and instances of incorrect runtime behavior have been fixed with this release.

Enhancements

The Business BASIC HELP ENHANCE command describes the enhancements in more detail.

New ASSIGN Options

Two new options have been added to the ASSIGN statement to tell Business BASIC how to handle the carriage-control byte for MPE files created with the CCTL attribute. These new options have no effect if applied to a non-CCTL file.

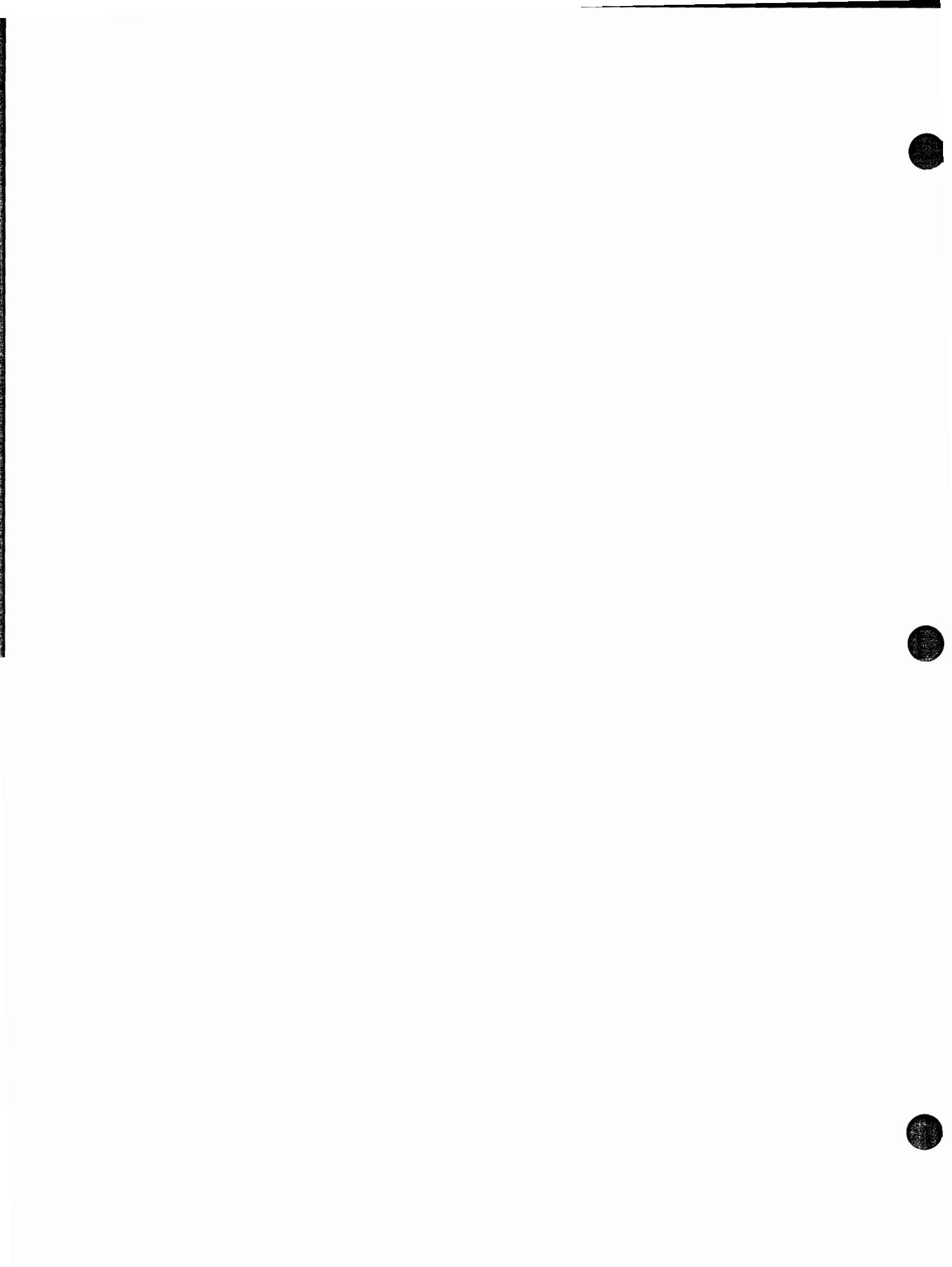
The CCTL option to ASSIGN indicates that the user wishes to handle the carriage-control explicitly. On input, the carriage-control byte will be returned as part of the input data. On output, the carriage-control byte will be set from the first byte of the output data for each record.

The NOCCTL option to ASSIGN indicates that the user wishes Business BASIC to handle carriage-control independent of the user data. On input, the carriage-control byte will not be part of the input data. On output, the carriage-control byte will be set by Business BASIC independent of the output data.

ADDRESS Built-in Function

Business BASIC now provides a built-in function that returns the byte address of a Business BASIC variable.

This function can be used to construct records containing pointers which may then be passed to routines written in other languages. Note that byte addresses may need to be converted to word addresses, if the called routine expects word addresses.



Hardware Support

Extended MPE V Hardware Support

Hewlett-Packard likes to exceed customer expectations. In the case of our *classic* HP 3000s, we have been consistently extending the hardware support life of the most popular systems due to demand and parts availability. The following chart shows the *earliest* dates that hardware support would be ended. Systems with extended dates are marked by asterisks (*). Please note that some dates could be extended in the future even further.

Your software support is similarly assured. Support Technology Center guarantees that your software support will be available for as long as you require it.

Earliest End of Hardware Support

Product	Earliest End of Hardware Support
Micro 3000	APR 1, 1996 *
Micro 3000LX	JAN 1, 1997
Micro 3000GX	JAN 1, 1998
Micro 3000RX	FEB 1, 1997
Micro 3000XE	JAN 1, 1996
Series 37 w/512KB Mem	MAR 1, 1996
Series 37XE w/1MB Mem	MAR 1, 1996
Series 37XE	JAN 1, 1996
Series 39A	JAN 1, 1998 **
Series 39B	JAN 1, 1998 **
Series 40	JAN 1, 1998 **
Series 42	JAN 1, 1998 **
Series 44	JAN 1, 1998 **
Series 48	JAN 1, 1998 **
Series 52	JAN 1, 1998 **
Series 58	JAN 1, 1998 **
Series 64A	MAR 1, 1996 *
Series 64B	MAR 1, 1996 *
Series 68	MAR 1, 1996 *
Series 70	MAR 1, 1996 *

Note:

* Extended

** Previously extended

Contractual support is no longer available for Series II, Series III, Series 30, and Series 33. Hewlett-Packard support for these products is on a time-and-materials basis and is on "best effort" offering only.



Product Release Information

MPE V Product Releases

The following table is both a historical and a current list of new products introduced for each MPE V version release for the HP 3000 Computer System.

MPE V Product Releases

V.UU.FF	Name	Release	Product(s) Introduced/Added
G.03.04	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.1P.00 G.1P.10 G.1P.20	Platform Release 1P	R3035	Roll-in of V-Delta-9 Series 6400 Model 1300H DDS Roll-in of HP GlancePlus/V (HP50733)* Roll-in of DeskManagerPLUS (HP36567)*
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)
G.22.00	Release 22	R3140	Roll-in of Release 21 Various Enhancements and Fixes No new products
G.23.00	Release 23	R3215	Roll-in of Release 22 Various Enhancements and Fixes 6 of the top 8 SIC requested enhancements plus 7 other enhancements 35 of the top 40 high impact problems fixed HP EXPLAIN

MPE V Product Releases (continued)

V.UU.FF	Name	Release	Product(s) Introduced/Added
G.2P.00	Platform Release 2P	R3237	Roll-in of Release 23 21 Customer Requested Fixes No new products
G.30.00	Release 30	R3248	Roll-in of Platform Release 2P 15 Customer Requested Fixes No new products
G.31.00	Release 31	R3330	Roll-in of Release 30 33 Customer Requested Fixes 3 Customer Requested Enhancements 24 Enhancements to SPOOK No new products
G.3P.00	Platform Release 3P	R3419	Roll-in of Release 31 7 Customer Requested Fixes 2 Customer Requested Enhancements Altjob, and SigImage request for User Logging New version of EDITOR
G.40.00	Release 40	R3531	Roll-in of Platform 3P 107 Customer Requested Fixes 2 Customer Requested Enhancements No new products

*Product has been retrofitted on this version.

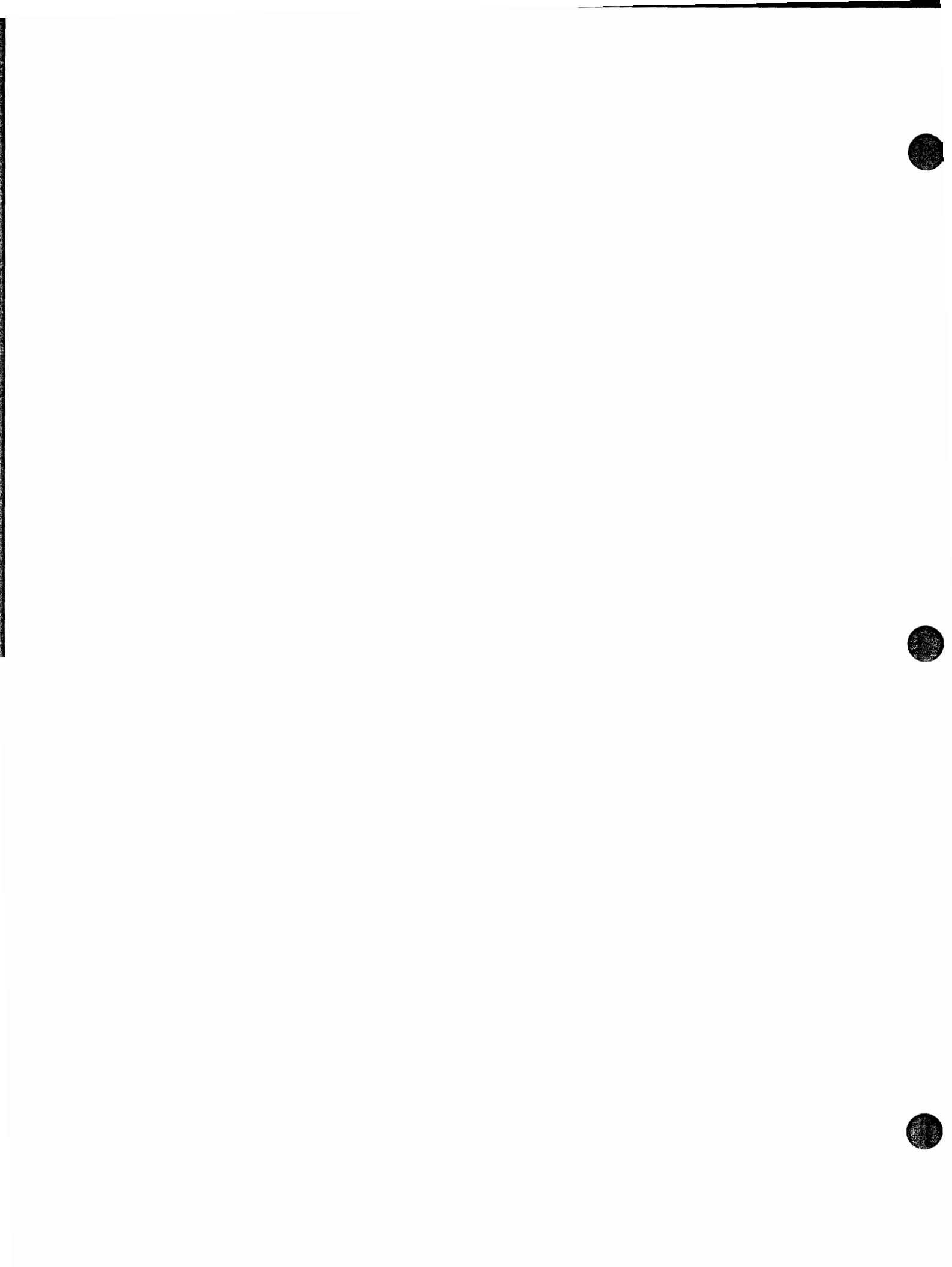
Supported Releases

The following matrix provides information on the supported versions of MPE V. It lists the currently supported releases and the SPUs on which they are supported, and all known factory support termination dates. A version of MPE V will not be orderable or supported after the support termination date.

Supported Release Matrix

RELEASE	V.UU.FF	Supported Systems	Support Termination Date
V-Delta-4	G.03.04	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX	¹
Platform Release 2P	G.2P.00	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX,RX	JAN 1, 1997
Platform Release 3P	G.3P.00	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX,RX	JULY 1, 1998 ²
Release 40	G.40.00	37, 39, 4X, 5X, 6X, 70, Micro3000 & 3000XE,LX,GX,RX	SEPT 1, 1996 ³

- ¹ DOD version (G.03.04) is only for customers who require DOD "C2" certification from the U.S. Government. This version will have continuing support for these customers only.
- ² Or 12 months after first customer shipment of the next platform, whichever is later.
- ³ Or six months after the first customer ship date of the next platform, whichever is later.



Catalog of User Documentation

Introduction

This chapter 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. If you would like to obtain additional copies of all the manual updates, these can be ordered as part of your support contract under the Manual Update Service.

As of this release the subscription services column of this catalog has been removed. If you would like to know more specific information about subscription services, please contact your HP representative.

You may order additional copies of individual manuals by calling 1-800-227-8164. Please use the following catalog to look up the customer order number needed to place your order.

Manual Title	Customer Order No.	Latest Edition	Current Update
Communicator 3000	32033-90405	7/95	
FOS SYSTEM MANUALS			
General Information Manual	5953-0662	10/84	
Fundamental 3000 Data Communication Handbook	5957-4634	6/84	
EDIT/3000 Reference Manual	03000-90012	8/80	9/92
Using the HP 3000: An Introduction to Interactive Programming	03000-90121	4/79	
MPE V Segmenter Reference Manual	32650-60026	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	6/92	
KSAM/3000 Reference Manual	30000-90079	6/92	
MPE V File System Reference Manual	30000-90236	10/89	
MPE V System Operation and Resource Management Reference Manual	32033-90005	10/89	
MPE V Commands Reference Manual	32033-90006	12/92	
MPE V Intrinsic Reference Manual	32033-90007	12/92	
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 TABLES Manual	32033-90147	10/91	
MPE V General User's Reference Manual	32033-90158	10/88	
Data Entry and Forms Management System V/PLUS/3000	32209-90001	7/86	11/87
Using VPLUS/V	32209-90004	8/86	
FCOPY Reference Manual	32212-90003	6/92	
Native Language Support Reference Manual	32414-90001	11/87	10/88
SORT-MERGE/3000 Reference Manual	32214-90002	9/81	5/85
TurboIMAGE Database Management System Reference Manual	32215-90050	12/85	
HP Hi-Li Reference Manual	32424-90002	11/87	
Predictive Support Users Guide	51467-90001	7/88	

Manual Title	Customer Order No.	Latest Edition	Current Update
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	
NS Cross-System NFT Reference	5958-8563	8/91	
NS3000/V Network Manager Reference Manual Vol. I	32344-90002	7/90	
NS3000/V Network Manager Reference Manual Vol. II	32344-90012	7/90	
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	30248-90002	8/90	
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	30246-61001	4/92	
SNA Link Services Reference Manual	30246-61002	4/92	
Installing and Troubleshooting SNA IMF Node Manager's Guide	30247-90002	1/85	
MRJE User/Programmer Reference Manual	30249-90001	10/88	
IMF User/Programmer Reference Manual	30250-90001	5/87	

Manual Title	Customer Order No.	Latest Edition	Current Update
LU 6.2 Base Node Manager's Guide	30252-90001	8/90	
LU 6.2 API/V Node Manager's Guide	30253-90002	8/90	
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 (kit): <i>(w/binder)</i>	30291-61005	8/90	
<i>Kit contents or individually ordered manual:</i>			
Manager's Guide	5958-8542	8/90	
ACF/NCP & ACF/VTAM Guide	5958-8543	6/91	
Job Entry Subsystems Guide	5958-8544	11/89	
IMS Guide	5958-8545	4/88	
CICS Guide	5958-8546	8/90	
DISOS Guide	5958-8547	8/90	
AS/400 Guide	5960-1629	6/92	
SNA NRJE Node Manager's Guide (w/binder)	30292-61000	10/92	
SNA NRJE User Programmer Reference Manual (w/binder)	30292-61001	10/92	
SNA IMF Programmer's Reference Manual (w/binder)	30293-61005	6/92	
LU 6.2 API Application Programmer's Reference Manual	30294-61000	6/92	
RJE User/Programmer Reference Manual (w/binder)	30295-61001	8/90	
HP X.400/HPDesk Node Administrator's Guide	32055-90001	4/90	
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	4/88
DS/3000 HP 3000 to HP 1000 User/Programmer Reference Manual	32185-90005	12/85	
DSN/DS 3000 Reference Manual	32190-90001	9/82	
DSN/DS 3000 To 1000 Reference Manual	32190-90005	1/82	
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 Error Message and Recovery Manual	32344-90005	7/90	
Repeater Installation Manual	92223-90002	11/85	12/88
PROGRAMMER PRODUCTIVITY TOOLS MANUALS			
Cooperative Services: Using Basic Serial Connection Files Manual	5957-9336	1/89	
TRACE Reference Manual	03000-90015	6/76	

Manual Title	Customer Order No.	Latest Edition	Current Update
HP SRC User's Guide (w/binder)	30234-60002	11/88	
<i>(binder contents)</i>			
HP SRC User's Guide		11/88	
HP SRC Implementation Guide		11/88	
HP SRC Quick Reference Card		11/88	
Getting Started with HP SRC		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	
HP TOOLSET Reference Manual	32350-90001	1/84	
Cooperative Services: Pascal Reference Manual	32570-90032	1/89	
Cooperative Services: Developer's Guide	32570-90053	6/91	
Cooperative Services: 'C' Language Reference Manual	32570-90034	1/89	
Cooperative Services: COBOL Reference Manual	32570-90035	1/89	
INFORMATION MANAGEMENT SERIES MANUALS			
HP NewWave Access Users Guide (for Windows Users)	D2500-90014	4/92	
HP Information Access for Windows Access Reports User's Guide	D2500-90030	5/93	
Information Access Server: System Management	B1716-90018	5/90	
Information Access Server: Error Messages	B1716-90019	5/90	
Information Access Server: Database Administration	B1716-90020	5/90	
Information Access Server: Master Index	B1716-90022	5/90	
Information Access Server: Learning the Administrator Utility	B1716-90023	5/90	
Information Access Server: Planning and Configuring	B1716-90024	5/90	
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

Manual Title	Customer Order No.	Latest Edition	Current Update
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
TURBOIMAGE DBchange/V User's Guide	36020-90001	1/87	
TurboIMAGE Profiler User Guide	36914-91001	12/85	
LANGUAGE MANUALS			
BASIC for Beginners	03000-90025	11/72	
HP FORTRAN 77 Reference Manual	5957-4685	5/88	
HP FORTRAN 77 Programmer's Guide	5957-4686	3/87	11/87
HP FORTRAN 77 Quick Reference Guide	5957-4687	1/88	
FORTRAN/66V to HP FORTRAN/77 Migration Guide	5957-4690	6/87	9/87
SPL Reference Manual	30000-90024	2/84	
SPL Language Textbook	30000-90025	6/76	9/77
BASIC Interpreter Reference Manual	30000-90026	6/76	11/86
Scientific Library Reference Manual	30000-90027	6/76	9/77
FORTRAN /3000 Reference Manual	30000-90040	6/76	5/79
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	
FORTRAN Pocket Guide	32102-90002	5/79	
BASIC/3000 Compiler Reference Manual	32103-90001	9/77	
HP RPG/V Reference Manual	32104-90001	12/88	9/89
HP RPG Pocket Guide	30318-90003	12/89	
RPG/V Utilities Reference Manual	32104-90006	12/88	
Pascal/3000 Reference Manual	32106-90001	10/83	
Pascal/3000 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 New Users of HP3000	32213-90003	3/78	
COBOL II/V Reference Manual	32223-90001	5/89	

Manual Title	Customer Order No.	Latest Edition	Current Update
COBOL/3000 to COBOLII/3000 Conversion Guide	32233-90005	12/79	
Getting Started with TRANSACT (w/binder)	32247-60002	5/85	9/88
TRANSACT Reference Manual	32247-90001	4/94	
HP TRANSACT Quick Reference Guide	32247-90020	4/94	
ADDITIONAL SOFTWARE PRODUCTS MANUALS			
HPCopycat/3000 Reference Manual	19550-90901	10/88	
Administrator's Guide to HPConvert/WPS	27500-90001	1/85	
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 Connect to HP DeskManager	27521-90005	1/86	
HP DeskManager: Intrinsic	27562-90003	12/91	
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	10/84	
HPMenu Quick Reference Guide	32112-90002	6/83	
Programmatic Access to HPWORD Documents	32119-90001	9/86	
Using HPWORD	32120-90035	4/85	8/88
HPWORD Administration	32120-90061	9/86	8/88
HPFILE/LIBRARY Administration	27520-90019	1/91	
Using FILE/LIBRARY	27520-90020	1/91	
HPDESK Administration Guide	27568-90003	12/91	
Combined HPDESK Manual Set	27576A	12/91	
Printing With HPWORD	32120-90065	8/88	
HPListKeeper User's Guide/Reference Manual	32132-90020	9/87	
VisiCalc Quick Reference Guide	32133-90001	12/84	
Deluxe VisiCalc Quick Reference Manual	32133-90010	12/84	

Manual Title	Customer Order No.	Latest Edition	Current Update
Deluxe VisiCalc Reference Manual	32133-90011	12/84	
DSG/3000 Reference Manual	32250-90001	12/83	
DSG/3000 Quick Reference Guide	32250-90002	2/84	
Print Spooler Utility	32345-90001	8/86	12/86
HP Tapemaker/V User's Guide	32434-90004	4/88	
Resource Sharing for MPE V	32597-90079	3/91	
HP TREND User's Guide	35136-90001	2/87	
HP Easytime Reference Manual	35303-90001	2/87	
HP Business Report Writer/V Reference Manual (w/binder)	36070-60002	10/87	11/88
Business Report Writer/V Tutorial	36070-90010	10/87	
HP SPELL Administration	36561-90002	11/84	
HP SPELL Quick Reference Guide	36561-90003	11/84	
HP DeskManager User Reference Guide	36570-90133	12/91	
HP DeskManager Customization	36570-90135	12/91	
Using HP TELEX II	36572-90021	1/91	
Administrator's Guide to HP TELEX II	36572-90013	9/84	
HP TELEX II Reference Card	36572-90014	5/88	
Using HP Slate	36576-90043	10/89	
TDP/3000 Quick Reference Guide	36578-90003	11/80	8/88
Getting Started With TDP/3000	36578-90005	9/87	8/88
TDP/3000 Reference Manual	36578-90009	8/88	
IFS/3000 Reference Manual	36580-90001	1/84	9/84
IDS/FORM Reference Manual	36581-90002	2/85	
HP Graphics Curator	36926-90001	2/86	
HP Graphics Curator Update	36926-90007	11/86	
HP LaserRX/MPE User's Manual: Analysis Software	50700-90024	3/91	
HP Performance Collection Software User's Manual (for MPE Systems)	50700-90022	4/92	
HP LaserRX/MPE: A Journey of Discovery	50700-90026	3/91	
TRANSFORM/3000 Reference Manual	99940-90001	2/89	
TRANSFORM/3000 IBM S/36 OCL Translation	99940-90002	11/86	
PROCMON/3000 Reference Manual	99941-90001	2/89	

Software Release Bulletin Information for Release 40

For your convenience, the information previously found in the MPE V fix table (formerly chapter 5 of the Communicator 3000, MPE V) and the MPE V Software Release Bulletin have been combined, reformatted and included in this and the following chapter.

The rest of this chapter will provide a quick look at the products changed in this release and corresponding service requests (SRs). The complete SR details for those products changed in this release can be found in *chapter 8*.

Software Release Contents

This section lists the product names and the new UU.FF of those products which have changed in this release, and the page number in chapter 8 of this document on which the SRs are listed. Please refer to the page number at the bottom of each page in chapter 8 to locate the SRs.

Product name	Product number	uu.ff	Page # in Chapter 8
*BUSINESS BASIC	32115A	02.12	2
*FORTRAN 77/V	32116A	02.09	10
*INFORM	32246A	10.00	13
*MODCAL-CM-LIBRARY	32047A	00.04	20
*OPT	32238A	00.33	21
*RPG	32104A	08.10	22
*TRANSACTION	32247A	10.02	27
*DSN/CS	30131A	55.50	43
*MPE V/E	32033G	13.00	45

Short Description and SR Number Index

A short description of the SR is provided for your review. Details of that SR can be found on the corresponding *chapter 8* page number. To locate an SR, refer to the page number listed on the *bottom* of each page in chapter 8.

- BUSINESS BASIC -

Keyword	Product Number: 32115A	Report #	Page
	JOINFORM sent to printer is missing last 2 lines of form	5000529891	3
	IF statement with a complex string equality condition causes abort	5000561449	4
	Enhancement request to modify warning message #2053	5000588012	8
	Problems with the OUTPUT ,MARGIN= command; confusion byte vs. word	1650155192	2
	ABS(X<3) when X is negative causes an abort in the compiler	5000553123	3
	Stack underflow when print variable > 500 chars with K format	1653056168	3
	MOD function does not always return correct result	D500167668	6
	LIST * displays last line modified instead of executed	D500168112	6
	Control Y trapping inside interpreter varies according to load	D500168138	6
	DMPT when PRINTER IS statement is called from SUB if report is active	D500168161	7
	Problems with CR/LF and PRINT functions at the end of the PRINT list	D500166595	5
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Number: 1650136358 Product: BUSINESS BASIC 32115A 02.07

Keywords: BOUNDS

One-line description:
COPYQ followed by DEL causes a bounds violation

Problem:
Editing large programs can abort the interpreter. For example, copying lines from one program unit to another may cause a subsequent delete to get a bounds violation.

Cause:
This problem is caused by the memory manager picking the wrong subunit to swap out of memory when the switching from one subunit to another.

This may occur when the memory pool is not big enough to hold all the information for two of the subunits at once, but is big enough to hold everything but their variable tables.

Temporary solution:
To work around this problem, run the interpreter with a larger PARM value to edit the large program. You may need to break up some of the large subunits into smaller ones; the Program Analyst can help you do this.

If the PARM value needed for editing is too large to allow RUN, save your program after it has been edited and then run the interpreter with a smaller PARM value.

-----% under-----
Number: 1650155192 Product: BUSINESS BASIC 32115A 02.08

One-line description:
Problems with the OUTPUT ,MARGIN= command; confusion byte vs word

Problem:
The record size of a file created by the SEND OUTPUT TO statement is not 80 bytes as specified in the manual. Instead, it is based on the value of the MARGIN option. In the following example, the record size of the file "file1" is 100 bytes (50 words). This can lead to confusion between the record size of the created file (positive indicates words, negative indicates bytes) and the meaning of the MARGIN value during output. MARGIN is always a byte count; negative values are essentially ignored, with the margin being set to the field width.

```
10 SEND OUTPUT TO "file1";MARGIN=50 ! creates file1 with recsize=100B
```

Cause:
The SEND OUTPUT TO routine is using the MARGIN value when creating the output file. It should always use 80 bytes for the record size.

Temporary solution:
To work around the problem, create the file with the desired record size before the SEND OUTPUT TO statement.

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```
9 CREATE ASCII "file1";RECSIZE=-50
10 SEND OUTPUT TO "file1",MARGIN=50
```

```
-----% under-----
Number: 1653056168 Product: BUSINESS BASIC 32115A 02.10
```

One-line description:
Stack underflow when print variable > 500 chars with K format

Problem:
HP Business BASIC aborts when a string of more than 500 characters
is printed with a "K" format specifier in PRINT/DISP USING.
For example:

```
>10 DIM B$(512)
>20 B$[1;512] = " "
>30 DISP USING "K";B$
>run
**** PROGRAM ERROR #29 :STACK UNDERFLOW
```

Cause:
The problem is caused by a fixed size buffer of 500 bytes used
to hold the formatted item output. The code for handling the
K specifier does not check for buffer overflow.

Temporary solution:
To work around the problem, break up the print of the string
into 500 character chunks:

```
25 FOR I=1 TO LEN(B$)-500 STEP 500
30 DISP USING "#,K";B$[I,I+499] ! print next 500 chars, suppress cr/lf
35 NEXT I
36 DISP USING "K";B$[I,LEN(B$)] ! print remaining chars with cr/lf
```

```
-----% under-----
Number: 5000529891 Product: BUSINESS BASIC 32115A 02.04
```

One-line description:
JOINFORM sent to printer is missing last 2 lines of form

Problem:
JOINEDIT "Print Form" prints a line of blanks instead of the last
line of the form if that line does not end with a carriage return.

Cause:
This problem was caused by JOINEDIT first detecting line wraparound
and resetting the column index to one, before detecting the end of
the form. When end of form is detected, the rest of the line
is blanked, starting at the current column index, before the line is
output. Since the current column index was already reset, the
entire line was being blanked.

```
-----% under-----
Number: 5000553123 Product: BUSINESS BASIC 32115A 02.08
```

One-line description:
ABS(X<3) when X is negative causes an abort in the compiler

Problem:
Some numeric expressions containing boolean operands may cause

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compiled programs to abort. For example,

```
10 X = -4
20 PRINT ABS(X<3)
```

Cause:

This problem is caused by the compiler getting confused about the type of boolean expressions in some instances during compilation. It ends up leaving an extra word on the top of stack due to an incorrect type conversion.

Temporary solution:

To work around the problem, assign the boolean expression to a temporary, and use the temporary as the operand in the numeric expression. For example:

```
10 X = -4
15 Y = X<3
20 PRINT ABS(Y)
```

-----% under-----
Number: 5000561449 Product: BUSINESS BASIC 32115A 02.04

One-line description:

IF statement with a complex string equality condition causes abort

Problem:

Extremely complicated expressions can cause incorrect behavior in compiled programs. This is most likely to occur with expressions which require many dynamic temporaries, such as those involving substrings and/or string function calls.

For example, the following program may cause a bounds violation, or may simply fail to branch when it should:

```
10 GLOBAL OPTION BASE 1,REAL
100 DIM B1$(215),B$(482)
200 B1$=RPT$(" ",215);B$=RPT$(" ",482)
300 Temp=0
400 IF Temp=1 THEN
410 PRINT "Programme has looped back and then stopped"
420 STOP
430 ENDIF
500 Temp=1
68500 IF B1$[6,8]+B1$[22,26]+B1$[47,203]=B$[44,46]+B$[6,10]+B$[171,*
184]+B$[47,65]+B$[191;2]+B$[188;2]+B$[185;2]+B$[128,153]+B$[78,*
89]+B$[90,127]+B$[155,170]+B$[66,77]+B$[193,206] THEN 400 ! Ba
ck if *
no change
90000 PRINT "End of TEST programme"
99999 END
```

Cause:

This problem is caused by the code generator doing garbage collection on one of its internal data structures when it exceeds a limit. An old index is then used to index into the rearranged data structure, referencing garbage. This causes incorrect code to be generated.

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Temporary solution:

To work around the problem, break up the complicated expression:

```
...
21 DIM X1$(215),X2$(215)
...
81 X1$=B1$(6,8)+B1$(22,26)+B1$(47,203)
82 X2$=B$(44,46)+B$(6,10)+B$(171,184)+B$(47,65)+B$(191,2)+B$(188,2)
+
B$(185,2)+B$(128,153)+B$(78,89)+B$(90,127)+B$(155,170)+B$(66,
77)+B$(193,206)
90 IF X1$=X2$ THEN
...
```

-----% under-----
Number: D500166595 Product: BUSINESS BASIC 32115A 02.11

One-line description:

Problems with CR/LF and PRINT functions at the end of the PRINT list

Problem:

The SPA function as the last item in a PRINT list, and not followed by a trailing delimiter, generates an extra CR/LF.

Also, if the TAB function is the last item in a PRINT list and the PRINT is going to an HP terminal, no CR/LF is generated.

For example:

```
>10 PRINT 1;SPA(5)
>20 PRINT 2
>30 PRINT 1;TAB(5)
>40 PRINT 2
>run
1
```

```
2
1 2
```

This should print:

```
1
2
1
2
```

Temporary solution:

To work around the problem, you can add a trailing delimiter to the original PRINT statement, and add an empty PRINT afterwards. Or, simply delete the function.

```
10 PRINT 1;SPA(5);
11 PRINT
20 PRINT 2
30 PRINT 1;TAB(5);
31 PRINT
40 PRINT 2
```

-----% under-----

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Number: D500167668 Product: BUSINESS BASIC 32115A 02.10

One-line description:
MOD function does not always return correct result

Problem:
INTEGER MOD with large values does not always return the correct result. For example:

```
10 INTEGER X,Y
20 X=16777235
30 Y=7
40 PRINT X MOD Y
```

This will print -1. It should print 6.

Cause:
The problem is caused by an intermediate calculation being done in single-precision arithmetic. This is not accurate enough to represent all integers, and this roundoff causes the incorrect result for MOD.

Temporary solution:
To work around the problem, force the MOD to be done in REAL or DECIMAL arithmetic:

```
5 REAL X
10 INTEGER Y
20 X=16777235
30 Y=7
40 PRINT X MOD Y          ! REAL variable for one of the operands
50 PRINT 16777235 MOD 7.0 ! or floating point constant
```

-----% under-----
Number: D500168112 Product: BUSINESS BASIC 32115A 02.10

One-line description:
LIST * displays last line modified instead of executed

Problem:
LIST * displays the last line added or modified. It should list the last line executed.

Cause:
The "current" line number is being maintained separately from the information about the last executed line. When a line is added or modified, the current line number is set to the new line. LIST * is using the current line number, while other commands use the last executed line information.

-----% under-----
Number: D500168138 Product: BUSINESS BASIC 32115A 02.10

One-line description:
Control Y trapping inside interpreter varies according to load

Problem:
Business BASIC does not always respond to Control-Y if the statement which is the target of ON ERROR

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itself gets an error. For example,

```
10 ON ERROR GOTO 20
20 IF VAL("X") THEN 10 ! this statement gets an error
30 END
```

Cause:

This problem is caused by the ON ERROR condition taking precedence over Control-Y.

While this may make sense when ON HALT is in effect, it should not override an attempt to interrupt the program when ON HALT is not in effect.

Temporary solution:

To work around the problem, make sure that the target of any ON ERROR statement does not itself cause an error. For example,

```
10 ON ERROR GOTO 19
19 Dummy=1
20 IF VAL("X") THEN 10
30 END
```

-----% under-----
Number: D500168161 Product: BUSINESS BASIC 32115A 02.10

One-line description:

DMPT when PRINTER IS statement is called from SUB if report is active

Problem:

A Data Memory Protection Trap occurs when a subprogram contains a SEND OUTPUT TO statement and a report is active in the main at the time the subprogram is called. If the subprogram is a compiled subroutine CALLED from an interpreted main, the interpreter aborts.

The following example causes the trap:

```
10 BEGIN REPORT 100 ! report is now active
20 DETAIL LINE Jtest WITH 2 LINES ! start report output
40 CALL Xsub ! call the subroutine
50 END REPORT
60 END
100 REPORT HEADER WITH 3 LINES
110 PAGE HEADER WITH 1 LINES
130 REPORT TRAILER WITH 30 LINES
140 END REPORT DESCRIPTION
210 SUB Xsub
220 SEND OUTPUT TO "*printer" ! not legal after report
221 ! output has started
230 SUBEND
```

Cause:

This problem is caused by the check to see whether report output has started before performing the SEND OUTPUT TO. An uninitialized pointer is being referenced if a report is active whose BEGIN REPORT is in a different program unit. The trap may or may not occur depending on the garbage contained in the pointer.

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Temporary solution:

To work around the problem, move or remove the SEND OUTPUT TO statement, which is illegal when output has started for a report.

-----% under-----
Number: D500172452 Product: BUSINESS BASIC 32115A 02.11

One-line description:

BBASIC truncates last byte of a file opened with CCTL

Problem:

Business BASIC treats records in files with CCTL as if they had 1 less byte than they actually have. This causes the last character in each record to be truncated when LINPUT into a Business BASIC program. For example:

FILEX2 11B FAC 5 1023 25 48 1 *

FILEX2 RECORD 0 (%0, #0)
0000: 2020 2020 2020 2020 2020 20

FILEX2 RECORD 1 (%1, #1)
0000: 0031 3233 3435 3637 3839 30 .1234567890

```
10 DIM A$[12]
20 ASSIGN #1 TO "filex2"
40 LINPUT #1,2;A$
50 PRINT NUM(A$),A$
100 ASSIGN * TO #1
```

This program prints

0 123456789

The trailing zero is not included in the data assigned to A\$.

Cause:

This problem is caused by the Business BASIC library subtracting 1 from the record length when it opens a file that has CCTL, apparently in an attempt to adjust for the carriage control character.

Temporary solution:

To work around the problem, use fcopy to copy the file to a file with NOCCTL, or to a file with CCTL that has records which are 1 byte larger than those in the original file.

-----% under-----
Number: 5000588012 Product: BUSINESS BASIC 32115A 02.07

One-line description:

Enhancement request to modify warning message #2053

Enhancement text:

Change warning 2053 to state that the runtime error will occur if the statement is executed.

-----% under-----

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SRB detail reports as of 07/18/95

Number: 5000630467 Product: BUSINESS BASIC 32115A 02.10

Keywords: HELP



One-line description:

Enhance the HELP catalog to be more clear on SETOFLD,SETCFLD,SETIFLD

Problem:

When doing a HELP interactively on the cursor-items
{ IFLD | OFLD | CFLD | SETIFLD | SETOFLD | SETCFLD }
the text that comes up does not include any information
about the fact that these functions can ONLY be called with
the CURSOR verb.

If you try to use the syntax as presented by HELP you will receive
>SETCFLD(1)
Setcfld(1)
^Error 68
Undefined variable or improperly used keyword.

Enhancement text:

The HELP text for the cursor functions (IFLD,OFLD,CFLD,SETIFLD,SETOFLD,
SETCFLD) should be enhanced to clarify that these functions are
only allowed in a CURSOR statement.

-----% under-----

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Number: 5000577387 Product: FORTRAN 77/V 32116A 02.04

One-line description:
I/O ERR 915 with BZ format

Problem:
READ (1,10) FILENUMBER CHECKNUMBER CHECKFLAG (MF(I),D1(I),D2(I),I=1,70)

10 FORMAT (1X,A4,3X,A6,A2,70(BZ,I2,2I9))

is returning I/O ERR 915 READ UNEXPECTED CHARACTER
intermittently at different points.

Cause:
The library code was looking one character too far when the BZ option
was in effect when skipping blanks before a sign. Thus a garbage
character was sometimes examined and therefore produced the error.

-----% under-----
Number: 5000580258 Product: FORTRAN 77/V 32116A 02.05

One-line description:
Problems with A2 format and repeat factors

Problem:
The A2 format does not appear to work correctly on output. Too many
characters are emitted when an implied D0 is used and the repetition
factor on the A format does not match the D0 factor.

-----% under-----
Number: 5003224170 Product: FORTRAN 77/V 32116A 02.08

One-line description:
Auto-open of file does not always work, WRITE or FNUM function fails

Problem:
The auto-open feature that allows files to be referenced without being
explicitly OPENed does not work correctly for all cases. A WRITE or
other simple function may fail unless the file is explicitly opened.
The FNUM function will not properly return the file number for a unit
that has not been opened. This may cause a program to fail when later
attempting to use the referenced file number.

Cause:
The code changes for SR 5003-045310 were not fully copied for all the
modules impacted by the change for auto-open. This should be fixed
in the next patch release planned for late 1994.

Temporary solution:
As the auto-open feature is not working correctly, the program should
explicitly open the unit prior to the call to FNUM or other file
reference.

-----% under-----

- FORTRAN 77/V -

SRB detail reports as of 07/18/95

Number: D500205781 Product: FORTRAN 77/V 32116A 02.08

One-line description:
HPEXTIN FORTRAN/V LIB routine does NOT error when passed "."

Problem:
HPEXTIN does NOT return an error when the input is only a period(.).

Cause:
It appears that a single period has always been allowed as a degenerate case of 0. or .0 thus ".". This has been corrected.

-----% under-----
Number: D500205799 Product: FORTRAN 77/V 32116A 02.08

One-line description:
HPIWEXT returns "*****" for short real -.9999995 with G12.6

Problem:
A program that attempts to print a SHORT REAL number with the value of - 0.9999995 using HPEXTIN as G12.6 gets an error and prints ***** (pound or number signs).

Cause:
The problem is that a call to inext' with the value -0.9999995, format #3 (G), field width 12, and # decimal places = 6 results in a field overflow ("*****"). The cause is that rounding of .9999995 to 1.0 is not properly handled by reducing the number of decimals to be printed by one. A similar problem occurs with the value .09999995 that rounds to .1 but is printed with the E format rather than the F format. The issue stems from the test for determining which format to use (E or F) and when rounding is to be applied. To be consistent with compatibility mode the code has been changed to check for the result of rounding near 0.1 and 1.0 before selecting the mode and number of decimals.

Temporary solution:
Increase the field width to 13 or reduce the number of decimals to 5 to avoid the problem.

-----% under-----
Number: D500205898 Product: FORTRAN 77/V 32116A 02.08

One-line description:
Arithmetic IF branching to a format statement is not detected.

Problem:
An Arithmetic IF branch to a FORMAT statement does not produce an error.

Cause:
A generic routine could not check for the specific case if invalid label references for arithmetic IFs. Now a specialized version of the code will cause an error ILLEGAL USE OF LABEL (120) when the branch to a non-executable statement is seen.

-----% under-----

- FORTRAN 77/V -

SRB detail reports as of 07/18/95

Number: D500205930 Product: FORTRAN 77/V 32116A 02.08

One-line description:

FSET will not allow Filenumbers greater than 254 (I/O error 975)

Problem:

FSET is getting the following error when the new file number parm is >= 255:
FORTRAN I/O ERROR 975: ILLEGAL NEW FILE NUMBER REQUESTED IN FSET...

Cause:

The routines were using a constant 254 as a maximum file number. This used to be the maximum but is now larger for later MPE releases. For MPE/iX, 4.0 it should be 1023.

Temporary solution:

Close files so that no more than 254 are open at the same time.

-----% under-----
Number: D500205963 Product: FORTRAN 77/V 32116A 02.08

One-line description:

CANNOT OPEN FORTRAN 77 ERROR MESSAGE FILE FTNCAT.PUB.SYS

Problem:

Message "CANNOT OPEN FORTRAN 77 ERROR MESSAGE FILE FTNCAT.PUB.SYS" when attempting to print an error message.

Cause:

When the file system error of too many files opened has occurred, the error routine is unable to open the Error Catalog FTNCAT.PUB.SYS. This will be corrected by closing some files when the catalog is not opened successfully and then trying to open the catalog again. Previously, the error routine only tested for a specific condition of the FORTRAN IOSTAT value being equal to 908, before closing the files.

-----% under-----
Number: 5000201285 Product: FORTRAN 77/V 32116A 00.07

Keywords: ERROR

One-line description:

Illegal constant substring parameters should be flagged at compile time

Cause:

The compiler has been enhanced to check for substring specifiers that are incorrect even if Range checking is not on. The error RANGE VIOLATION DETECTED AT COMPILATION TIME (504) will be produced.

Temporary solution:

The RANGE ON compiler option will detect the invalid substring specifier.

Enhancement text:

A compile time error should be generated on an incorrect character substring in a list-directed PRINT.

-----% under-----

- FORTRAN 77/V -

SRB detail reports as of 07/18/95

Number: 1650047688 Product: INFORM 32246A 03.06

Keywords: NLS

One-line description:

Wildcard characters do not work with other than Native-3000 language

Problem:

Wildcard characters are not recognized when using other than Native-3000 language.

Also, if the match condition is not "EQ" and the match field characters are "*"s and the match field length is less than the item length, then the record qualifies as a match when it should not.

Cause:

If the condition is not "EQ", then nlcollate is used to determine if the field is "LT" or "GT" for the match field, ignoring the wildcard characters.

Temporary solution:

There is no known workaround for this problem.

Fix information:

Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INF79.

Signed off 06/23/95 in release A10.00

----- % under -----
Number: 5000045138 Product: INFORM 32246A 01.09

Keywords: INFORM

One-line description:

Using "*" on two character fields does not work.

Problem:

When using the "*" parameter to select records to be processed on data items of length less than three, the following message is given:

INPUT FIELD IS LONGER THAN LENGTH OF FIELD.

Thus "*" cannot be used to specify any fields containing "C" on a two character field.

Cause:

The algorithm is not correct when using "*" on a field length that is less than the match length.

Temporary solution:

Use relational connector to select the items. For example:
if you use "*" to try to select an item that is defined as X(2),
this will NOT work. Use "C" or "C" as selection criteria.

Fix information:

Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INF79.

Signed off 06/23/95 in release A10.00

- INFORM -

SRB detail reports as of 07/18/95

-----% under-----
Number: 5000180232 Product: INFORM 32246A 02.07

One-line description:

Inability to report on common element linked in flat files

Problem:

When there is no driver file and a link element (link value of 1) is used in a report along with other elements (all from flat files), INFORM cannot compile and produce the report.

Cause:

The algorithm for selecting a driving file is not correct. Instead of selecting the best driving file, it picked the first possible file.

Temporary solution:

By setting the required link item's link value to 0 and all of the other items link values to -1 to insure that they are not accessed at all, the correct data is retrieved.

Also, adding a driver file will eliminate the problem.

Fix information:

Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INF79.

Signed off 06/23/95 in release A10.00

-----% under-----
Number: 5000581033 Product: INFORM 32246A 05.00

One-line description:

Wrong driving file when link item is not in the report

Problem:

INFORM is incorrectly choosing the driving file from an INFORM group when the link item is not included in the report. The INFORM group includes three datasets within 2 databases:

BASE1	BASE2
Mast1	Mast2
link-item	link-item
item2	item3
	Det12
	link-item
	item4

In the Dictionary, "link-item" in mast1 is the only element within the INFORM Group with a positive link value. INFORM should choose mast1 as the driving file, instead it is using "det12."

Cause:

INFORM is not looking at the link item when it is not included in the report. This causes it to choose the wrong driving file.

Temporary solution:

The temporary workaround is to specify a secondary link item from the

- INFORM -

SRB detail reports as of 07/18/95

desired driving file that is included in the report. This will force INFORM to use the correct file as the driving file. Give the "real" link element a higher priority (i.e. 1) and the secondary link item a lower priority (i.e. 2). The secondary link item must be included in the report for the workaround to work.

Fix information:

Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INF79.

Signed off 06/23/95 in release A10.00

-----% under-----
Number: 5000614958 Product: INFORM 32246A 06.04

Keywords: SELECTION

One-line description:

Incorrect selection criteria for 8-byte integer items and neg. values

Problem:

INFORM selects incorrect records when using an 8-byte negative integer for the selection criteria and the records contain negative values.

Cause:

The comparison was being done incorrectly for 8 byte negative integers.

Temporary solution:

There are no known workarounds for this problem.

Fix information:

Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INF79.

Signed off 06/23/95 in release A10.00

-----% under-----
Number: 5003033977 Product: INFORM 32246A 07.02

One-line description:

User-defined field, P(11,0,6), too small to handle calculation.

Problem:

DECIMAL OVERFLOW error when the results of a computed item needs more than 12 bytes of storage.

For example,

```
TO INCLUDE IN REPORT> +  
  
    NEW DATA NAME> compute1  
COMPUTATIONAL EXPRESSION> 400000 - 700000 * 915000  
    EDIT MASK>  
  
TO INCLUDE IN REPORT> 12 <<COMPUTE1>>
```

The report shows the following error message for COMPUTE1:

```
*ERROR: DECIMAL OVERFLOW (PROG 47)  
and COMPUTE1 is 0 for every detail line.
```

- INFORM -

SRB detail reports as of 07/18/95

Cause:

All computed items are defined as P(11,0,6), which may be too small in storage length for some calculations.

Temporary solution:

Verify that calculations do not need more than 11 bytes of storage.

Fix information:

Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INF79.

Signed off 06/23/95 in release A10.00

-----% under-----
Number: 9999034204 Product: INFORM 32246A 00.00

Keywords: INFORM SELECT

One-line description:

Selection criteria with field type Z or P results in "no entries found"

Problem:

If a Z or P type item is a key of a data set and the data has been entered through Query, when selecting this item in the selection criteria, Inform will not find the item unless a '+' sign is used.

Cause:

Inform always overpunches the last character of a Z type item, while Query enters Z type data without the overpunch. Nonkey Z items work because Inform converts them to packed decimal before matching and so 321 and +321 (represented by 32A internally) are the same. But key items are searched by calculated access, and 321 and 32A are different. Hence, the user must enter a '+' sign to select a key item if its value are entered thru Query.

A P type item is kept in the database with its sign. Nonkey P items work correctly because they are converted prior to matching. P type items that are keys are searched by calculated access, 321 and +321 are different.

Temporary solution:

- 1) Enter data by a TRANSACT DATA statement, or
- 2) Use '+' sign with the value at the selection prompt.

Fix information:

Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INF79.

Signed off 06/23/95 in release A10.00

-----% under-----
Number: D500157255 Product: INFORM 32246A 08.05

One-line description:

References to "DATA BASE" should be changed to "DATABASE" in msg catalog

Problem:

- INFORM -

SRB detail reports as of 07/18/95

The message catalog does not spell database as spelled in the TurboIMAGE manual. It is spelled "data base" currently in the message catalog.

Temporary solution:
Interpret "data base" as a reference to an TurboIMAGE database.

Fix information:
Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INFV79.

Signed off 06/23/95 in release A10.00
-----% under-----
Number: D500178111 Product: INFORM 32246A 08.05

One-line description:
Incorrect error message is displayed when a sort error occurs.

Problem:
The message WRITE FAILURE ON TRANSPORT is misleading. INFORM does not use the file TRANSPORT.

Cause:
The message catalog, RAPID000, was changed for Transact/V A.10.00. The message should be SORT FILE WRITE when running INFORM.

Temporary solution:
Modify the message in the RAPIDCAT catalog to be "SORT FILE WRITE".

Fix information:
Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INFV79.

Signed off 06/23/95 in release A10.00
-----% under-----
Number: D500187492 Product: INFORM 32246A 08.05

Keywords: TYPE INTEGER SELECTION

One-line description:
No records found when selection criteria is a 12-byte integer

Problem:
Inform selects no records when using a 12-byte integer for the selection criteria.

Cause:
The code is missing for 12-byte integer comparisons.

Temporary solution:
Use a different data type or an 8-byte integer.

Fix information:
Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INFV79.

Signed off 06/23/95 in release A.10.00

- INFORM -

SRB detail reports as of 07/18/95

-----% under-----
Number: D500190108 Product: INFORM 32246A 08.05

Keywords: SELECT KSAM

One-line description:

INVALID RECORD NUMBER (KSAM 184) when NM KSAM is used with FIRSTREC=1.

Problem:

Inform returns the following message when accessing KSAM/XL files where the first record is 1:

"*ERROR: INVALID RECORD NUMBER (FFINDW INTRINSIC) (FSERR 184)

Cause:

KSAM/XL is not compatible with KSAM/V and KSAM/CM and Inform was designed to work with KSAM/V.

More precisely, Inform performs an FPOINT to record 0 and expects a file system error 0 to occur if the KSAM file has been built with a first record of 1. KSAM/XL will return a file system error 184. Inform required changes to handle either product.

Temporary solution:

Temporary workaround is to rebuild the KSAM file with FIRSTREC=0 or to use compatibility mode KSAM.

Fix information:

Fixed in Inform version A.10.00 and available on MPE V Release 40 and General Release patch INFV79.

Signed off 06/23/95 in release A10.00

-----% under-----
Number: D500199752 Product: INFORM 32246A 08.05

Keywords: CALL REPORT INFORM

One-line description:

INFORM aborts with BOUNDS VIOLATION when PASSWORD = "]]".

Problem:

When calling REPORT or INFORM from Transact and responding "]]" to a REPORT or INFORM database prompt will result in a Bounds Violation.

This only occurs in interactive mode, not in batch mode. In batch mode the user will receive the error message "ERROR: INVALID PASSWORD FOR DATA BASE: ".

Cause:

Transact aborts with a Bounds Violation when attempting to close the databases being accessed by REPORT or INFORM.

Temporary solution:

There is no temporary workaround for entering "]]" as a response to the password prompt of a called REPORT or INFORM program.

Fix information:

- INFORM -

SRB detail reports as of 07/18/95

Fixed in Inform version A.10.00 and available on MPE V Release 40 and
General Release patch INFV79.

Signed off 06/23/95 in release A10.00

-----% under-----

- INFORM -

SRB detail reports as of 07/18/95

Number: 1650160531 Product: MODCAL-CM-LIBRARY 32047A 00.02

Keywords: OVERFLOW

One-line description:

Integer overflow in M'CAN'ESCAPE+16 if PARM is large on runtime error

Problem:

An integer overflow abort can occur for any type of Pascal runtime error if PARM is large, ~32K.

Cause:

The PARM word is stored in the stack in the same place as a DeltaQ. When the library is following stack markers in the case of an error it aborts when it subtracts the large PARM from Q.

Temporary solution:

Use the INFO string instead of PARM.

Signed off 06/15/93 in release A00.04

-----% under-----

- MODCAL-CM-LIBRARY -

SRB detail reports as of 07/18/95

Number: 1653122564 Product: OPT 32238A 00.31

Keywords: OPT

One-line description:

[OPT DOES NOT DISPLAY OPEN FILE DETAIL FOR SOME FILES ON Platform 3P.

Problem:

Problem: In the Process display, open file detail is not displayed for certain files. the group and account are displayed as ***** *****.

Cause:

Cause: The problem is caused by a change that was made to Platform 3P of MPE V. Procedures GETFILENAME and FIND'DBU both validate that the FCB file being displayed is valid. One of the checks is to insure that (previously) UNUSED words in the FCB (File Control Block) are zero. The change to Platform 3P allocates the previously unused words in the FCB, so it is no longer zero.

Temporary solution:

There is no temporary work around.

-----% under-----

- OPT -

SRB detail reports as of 07/18/95

Number: 1653056507 Product: RPG 32104A 08.06

One-line description:
Sigedit delete form causes corruption in form list.

Problem:

Customer needs to modify a formfile using SIGEDIT (A.08.06). He has a formfile which resides in a runtime environment and is developing/modifying forms in his own formfile. He needs to replace some forms in the runtime formfile (delete form / copy form).

The problem is the following: if customer tries to delete a form (whatever form in the formfile), SIGEDIT will delete the last form in the formfile and duplicate the first form. If SIGEDIT doesn't produce this strange result, it will fail in
**** PROGRAM ERROR #18 :PROCESS QUIT .PARAM = 20305

ABORT: SIGEDIT.PUB.SYS

NM SYS a.009d3180 dbg_abort_trace+\$24
CM SYS % 213.7323 SWITCH'TO'NM'+%4 SUSER1
CM PROG % 0.340 CHK_FILE_ERROR+%70 SEGOO

PROGRAM TERMINATED IN AN ERROR STATE. (CIERR 976)
on file SIGSORT and the first form name will become 1*****.

Cause:

SIGEDIT keeps the forms in the forms-file in sorted order to improve the overall search speed when looking for a new form. When a form is deleted, a variable containing the number of forms is decremented, but for the sort process, the original number of forms should have been used. This could cause the sort to get out of sync, thus causing forms to be lost, or in some cases resulting in aborts.

-----% under-----
Number: 4700945998 Product: RPG 32104A 08.06

One-line description:
SIGEDIT forms file with messages merged still requires FILE CATALOG=

Problem:

If user messages (from either an MPE or NLS catalog) are merged into a forms file by SIGEDITOR, then it should not be necessary to issue a file equation for the formal file name "CATALOG" for the forms file to be opened by an RPG program. But, the RPG program aborts with "RPG Error: Open of user messages CATALOG file failed."

The program can be made to work by first equating file CATALOG to \$NULL (or anything else that can be opened at runtime.) Related SR's are: 5000-442517 and 4700-946004.

Cause:

The run-time library routine used to open the message catalog failed to check a variable in the forms file that specified whether or not messages had been merged. As a result, an attempt was always made to open the message catalog.

Temporary solution:

Issue the following file equation prior to running the RPG program:
:FILE CATALOG=\$NULL

-----% under-----

- RPG -

SRB detail reports as of 07/18/95

Number: 4700946004 Product: RPG 32104A 08.04

One-line description:
SIGEDIT forms file using unmerged WLS catalog gets BOUNDS VIOLATION

Problem:
When a SIGEDITOR forms file uses message fields, and a Native Language Support (NLS) catalog is referenced at runtime via a :FILE CATALOG= command, the RPG program aborts with a BOUNDS VIOLATION (at library offset %14440.)

This occurs after the first screen is displayed (although all the message fields contains blanks!) and the user hits the F1 (Command) key. There is no problem when using an MPE catalog file instead of WLS. (Related SR's are: 5000-442517 and 4700-945998.)

Cause:
A parameter for the CATREAD intrinsic (used to access the WLS catalog) was not properly set.

Temporary solution:
Create the catalog file using the MPE MAKECAT utility, rather than the WLS GENWCAT program, and reference the resulting file with FILE CATALOG= at runtime.

-----% under-----
Number: 4701003004 Product: RPG 32104A 08.05

One-line description:
SIGEDIT: Convert S & D specs with > 255 D-specs in form aborts w/hang.

Problem:
When converting an S & D file to an RPG forms file using SIGEDIT, if a form in the file contains more than 255 D-specs (fields and constants), SIGEDITOR aborts and may leave the terminal hung. It should issue an error message and exit gracefully.

-----% under-----
Number: 5000434175 Product: RPG 32104A 07.05

One-line description:
Hangs if locking and with the RECORD NUMBER ADJUST on flat file

Problem:
Customer has RPG version A.07.04, MPE version G.03.01.
Experienced job and session hangs when RPG programs accessed files opened in LOCK and SHR mode. Application program was accessing an MPE direct-access files with the RECORD NUMBER ADJUST feature (column 22 of the H-spec) turned on. Additionally, he was doing a KLOCK on the file so that the file was locked immediately before it was read. Apparently, if the relative record number supplied to the direct-access file was equal to zero, the number would be adjusted to a -1. A chained read of the file with record number -1 would result in a record not found and the file would remain locked.
One workaround would be to add an UNLCK statement in the C-specs to unlock the file if this situation arises.

-----% under-----

- RPG -

SRB detail reports as of 07/18/95

Number: 5000442517 Product: RPG 32104A 08.01

Keywords: CATALOG

One-line description:

SIGEDITOR: MERGE CATALOG fails if catalog created w/GENCAT. MAKECAT ok

Problem:

Sigedit will not MERGE CATALOG a form file with a catalog file created by GENCAT.PUB.SYS. It will only MERGE CATALOG with a catalog file created by MAKECAT.PUB.SYS. According to the documentation, it should merge with a catalog created by either program. If MERGE CATALOG is used with GENCAT, the message field of the SIGEDIT screen remains blank and the set and message fields of the field attributes are zeroed out. When PROCNOW is run to PROMPT the formfile to appear, the optional parameters of the PROMPT command START and LENGTH are no longer optional if you want the message to appear in the message field. See also SR4700-945998 regarding the need for a file equation for the catalog file.

Cause:

The original design of SIGEDITOR only used the intrinsics for MAKECAT. The ability to use message files from GENCAT was never there. If the messages were not merged, and the message file was accessed from the RSI application, then either MAKECAT or GENCAT files would work OK.

Temporary solution:

Either do not merge messages into the forms file or do the merge from an MPE message file rather than NLS.

-----% under-----
Number: 5000480210 Product: RPG 32104A 08.01

Keywords: SYNTAX

One-line description:

Convert S&D screen allows a "fileset" but the screen text says filename

Problem:

In SIGEDIT, the "convert S & D" screen allows you to enter a fileset, but the screen text says "file name". It should be made clear that filesets are also allowed.

-----% under-----
Number: 5000622050 Product: RPG 32104A 08.04

One-line description:

SIGEDIT Screen Corrupts after Adding 20 1-Position Fields

Problem:

SIGEDITOR (A.08.04) corrupts form when adding to a very large form. Corruption seen after adding 120th field to form. Corruption appears after the ENTER key is hit on the EDIT FORM screen. When ENTER key is hit, edits do not seem to be accepted. Cursor is moved to a different line and ENTER is pressed again. Form is accepted, but when the user returns to edit the screen again, the literal fields have shifted down one or more lines, thus corrupting the screen.

- RPG -

SRB detail reports as of 07/18/95

Cause:

A buffer used in the FREAD to get information on a modified line was not large enough to hold all the necessary characters. This placed a limit of about 19 fields on a given line. The buffer has now been expanded to allow up to 40 fields on a line.

-----% under-----
Number: 5000622068 Product: RPG 32104A 08.04

One-line description:

Adding fields to SIGEDIT screen result in field name of 3, Seq No 2000

Problem:

SIGEDITOR (A.08.04) places a 3 in the fieldnumber of a field and gives it a sequence number of 2000. This occurs for 4 fields added to a very large SIGEDIT form. The form consisted of 112 fields. When user went back and added 6 new fields, the last 4 fields had the problem.

Cause:

SIGEDIT was incorrectly managing an internal buffer, causing valid entries to be overwritten with other data. This occurs only on very large forms. The problem was noted on a form containing 112 fields and 72 constants for a total of 184 items. Adding one more constant caused the problem. Since we allow a maximum of 256 entries, this should be allowable. The management of the internal buffer, however, relied on no. fields + 2*no. constants <= 256, which is not the case here (112 + 2*73 = 258). Hence the loss of data.

-----% under-----
Number: 5000662403 Product: RPG 32104A 08.05

One-line description:

SIGEDIT file with signed numeric fields shows diff. length on A.08.05

Problem:

SIGEDIT forms file created under VD2 using signed numerics fields report different field lengths on version A.08.05 of MPE/XL 2.2 using PRINT SPECS and GEN I/O specs. GEN I/O SPECS is correct.

-----% under-----
Number: 5003009670 Product: RPG 32104A 08.05

One-line description:

SIGEDIT will corrupt form name when deleting a form.

Problem:

SIGEDIT corrupts form name to "1*****" under the following conditions:

There are only two forms in the file.

The first form is then deleted.

Cause:

SIGEDIT keeps forms in sorted order in order to rapidly access a given form. For the case of two forms in a forms-file, where the first form was deleted, leaving one form, it decided that for one form no sort was needed. This resulted in the loss of the 2nd form, with the first form renamed "1*****". This name is actually the 'flag' used by the sort routine for a form to be discarded.

-----% under-----

- RPG -

SRB detail reports as of 07/18/95

Number: 5003215012 Product: RPG

32104A

08.06

One-line description:

RSI needs ability to open port with 4 digit LDEV

Problem:

RSI applications run on terminals with LDEV numbers greater than 999 will immediately terminate with no error or warning message.

Cause:

The FOPEN intrinsic originally designed for the classic HP3000 (using MPE/V) specifies the LDEV parameter to be a 3-digit numeric string. The RPG RSI interface was designed with this restriction, with the result that 4-digit (or more) LDEV numbers are truncated on the left. Since the FOPEN then cannot find an appropriate terminal, it simply forces the program to terminate.

-----% under-----

SRB detail reports as of 07/18/95

Number: 1650017103 Product: TRANSACT 32247A 02.02

Keywords: NEED DISPLAY

One-line description:

NEED= does not work when NEED group starts on the last line on page

Problem:

The NEED= option of the FORMAT verb is not working when DISPLAY is printing the last line of data on a page.

Cause:

Transact does not check the NEED= value when printing the last line of a page.

Temporary solution:

There is no workaround.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: 1650159327 Product: TRANSACT 32247A 08.04

Keywords: DISPLAY FILE ROW

One-line description:

Row format of DISPLAY does not work if FILE=filename is used.

Problem:

Doing a DISPLAY(FILE=filename) itemname,ROW=10 does not skip rows when writing to a file. This works correctly for Transact/XL MM. Transact/V & /CM work correctly if outputting to the terminal.

Cause:

The section of code that writes out the blank lines is being by-passed when writing to a file.

Temporary solution:

The LINE function can be used instead of the ROW function to accomplish the desired task.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: 5000225086 Product: TRANSACT 32247A 03.06

Keywords: KSAM PARTIAL KEY

One-line description:

Partial key (generic) access does not retrieve the expected records

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Problem:

Customer application is used to inquire into a KSAM file. The first value entered as the key is found. When a second value is entered, it finds the record after the value requested. When the full key value is used, the correct data is obtained. Partial keys locate the incorrect records.

Cause:

The find is using an exact match, and as a result, fails to find keys in which a portion of the key was specified as the argument.

Temporary solution:

There are two workarounds:

1. Define a child item of the full search key and use the child item for the SET(KEY) statement. For example, if the child item is X(3) and a search value of '110' is used, all the records having '110' in the first 3 bytes are retrieved.
2. Use SET(MATCH) with GE, LT or other options along with SET(KEY) of the full key.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: 5000268235 Product: TRANSACT 32247A 03.06

Keywords: KSAM GET

One-line description:

GET(CURRENT) does not retrieve the last entry written to a KSAM file

Problem:

When using GET(CURRENT) after doing several PUTs and DELETES to a KSAM file, sometimes the current record retrieved is not the correct one.

Cause:

The record pointer is positioned to the next record in key sequence when a record is PUT to a KSAM file, rather than to the record just added.

Temporary solution:

There is no temporary workaround identified.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----

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SRB detail reports as of 07/18/95

Number: 5000462366 Product: TRANSACT 32247A 06.02

Keywords: LET

One-line description:

LET of zero from 9,I,J,K,P,R,E types into X,U types results in blanks.

Problem:

Using the LET verb to assign the value 0 from an item with the data type of 9,I,J,K,P,R, or E to an item with a data type of X or U will result in blanks instead of a single ascii zero.

Cause:

When assigning zero to a character field, the zero is considered a leading zero. The leading zero is stripped off and a blank assigned to it.

Temporary solution:

Use the MOVE verb to assign a numeric data type to a character data type.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: 5000534313 Product: TRANSACT 32247A 07.01

Keywords: RETURN FIND

One-line description:

RETURN(0) leads to infinite loop in TRANSACT/V; no looping in TR/XL

Problem:

RETURN(0) in the PERFORM routine of a FIND(SERIAL) leads to an infinite loop in Transact/V. For example:

```
Find(serial) flat1,list=(lll),perform=p1;
exit;
p1:
display lll;
return(0);
end;
```

In the above case Transact would be continuously reading the first record of file flat1.

Cause:

RETURN(0) in a FIND(SERIAL) prematurely closes the file and the next find starts at the beginning of the file again.

Temporary solution:

Use only RETURN when returning from one level of PERFORM.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

- TRANSACT -

SRB detail reports as of 07/18/95

Signed off 06/23/95 in release A10.02

```
-----% under-----  
Number: 5000553842 Product: TRANSACT          32247A          07.02
```

Keywords: CURSOR GET

One-line description:

CURSOR= option on PUT/GET(FORM) displays error "Cannot place cursor".

Problem:

When a PUT(FORM) positions the cursor into a display only field, a subsequent call to GET(FORM) will return an error:

"Cannot place cursor to display only fields (VPLUS 800,25,FORM)"

Cause:

Transact saves the last cursor position from a SET(FORM) verb so subsequent GET(FORM) or PUT(FORM) verbs place the cursor in the proper field. PUT(FORM) and SET(FORM) erroneously set the last cursor position, causing the error.

Temporary solution:

After doing the GET(FORM) or a PUT(FORM) with a CURSOR= option, do a SET(FORM) to clear the last cursor position.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

```
-----% under-----  
Number: 5000562496 Product: TRANSACT          32247A          08.07
```

Keywords: DEFINE DICTIONARY

One-line description:

No warning for Dictionary item names > 16 chars which migration issue.

Problem:

Transact/iX provides a warning when item names from the Dictionary are greater than 16 characters. Transact/V and Transact/CM provide no such warning.

Cause:

Transact/V and Transact/CM check item name lengths when parsing the DEFINE and LIST verbs. Unfortunately, this will not detect undefined items or unlisted items. When a customer migrates to Transact/iX, the Transact/iX compiler issues a name truncation warning to alert the programmer of the compatibility problem.

Temporary solution:

When an item name of greater than 16 characters causes a warning by the Transact/iX compiler, change the item name to 16 or less characters.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

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Signed off 06/23/95 in release A10.02

-----% under-----
Number: 5000601179 Product: TRANSACT 32247A 08.04

Keywords: ERROR MESSAGE LET

One-line description:

TRANSACT V: Incorrect error when using type X items in LET statement.

Problem:

TRANSACT/V gets "ERROR: **** INVALID ERROR NUMBER - PLEASE REPORT "
after an expected "INVALID ARITHMETIC FIELD FOR ITEM" error. For ex:

```
define(item) name x(80):  
    first x(80):  
        small x(1)=first(1);  
list name: first;  
move (name) = "hello my name is ";  
move (small) = "s";  
let (name) = (name) + (small);
```

Cause:

The problem is caused by the fix for SR 4700-829614 in which TRANSACT was altering the SOURCE item in a LET statement when it had an invalid number. For example, using "LET (num1) = 1+(str1);" with "str1" equal to "s", would change "str1" to 0. The fix for the above SR changed this so that the source field (str1) was left alone.

For the current SR, this means that after the LET, the item str1 still has "s". The code path for LET depended on str1 being cleared. Since it now is not, a trap occurs and the INVALID ERROR NUMBER is generated.

Temporary solution:

The temporary workaround is to use the ERROR= option on the LET which has the error.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: 5000705046 Product: TRANSACT 32247A 09.02

Keywords: DISPLAY CLOSE

One-line description:

DISPLAY(FILE=xxx) command, close the spoolfile, get FSERR 0

Problem:

When the following conditions occur, a CLOSE <file> will result in a file system error 0.

- * A file is not the first named file in the SYSTEM statement.
- * TRANLIST is redirected to a printer.

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* A display has been performed to the named file.

Cause:

The events named in the problem text cause the Transact processor incorrectly interpret the state of the MPE/KSAM file. Transact returns an error, and the file is not closed.

Temporary solution:

Do not redirect output to a printer while using a display to a file.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: 5003004382 Product: TRANSACT 32247A 09.02

Keywords: DISPLAY

One-line description:

Trailing "-" interpreted as hyphen, not as optional sign character.

Problem:

The fix to SR 5003-002303 for version A.08.05 causes the trailing "-" to work differently than the trailing "CR" for a "9" data type. The trailing "-" is now displayed for all values.

Cause:

The fix for SR 5003-002303 causes the DISPLAY verb to edit items of a "9" data type as a character ("X" or "U") data. The items of a "9" data type should be edited as a numeric ("Z", "P" or "9") data.

Temporary solution:

Move the data to a "Z" type item before displaying the data.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: 5003071332 Product: TRANSACT 32247A 08.07

Keywords: FORMAT

One-line description:

FORMAT verb's CCTL is applied to previous item instead of current item.

Problem:

Given the following two statements:

1. FORMAT

"Line-1":
"Line-2",cctl=65:
"Line-3",cctl=66;

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2. DISPLAY(file=fname);

The carriage control for "Line-2" will be erroneously applied to "Line-1", and the carriage control for "Line-3" will be erroneously applied to "Line-2". The literal "Line-3" will have no carriage control applied.

Cause:

The logic for applying the CCTL option of the FORMAT verb is off by one. Carriage control is applied to the item preceding the item with the CCTL option.

Temporary solution:

1. Use the LINE= or the PAGE= option instead of the CCTL= option.
2. Add an empty CCTL= option in the format verb to adjust the CCTL specifications:

This format statement:

```
FORMAT
  "Original format specification",CCTL=0;
```

becomes:

```
FORMAT
  " ",CCTL=1:
  "Original format specification",CCTL=0;
```

NOTE: If using workaround #2, you will need to change your program when this problem is fixed.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: 9999203042 Product: TRANSACT 32247A 02.02

Keywords: LET SQRT

One-line description:

LET RESULT = SQRT(X) does not work when RESULT is type 9 or X or Z.

Problem:

Square root function works inappropriately when the destination item is type 9, Z, or X.

Cause:

While evaluating the expression "LET (Z-TYPE) = SQRT (Y);", conversion from the square root value of Y to Z (also X and 9) type is not done correctly.

Temporary solution:

Please continue using the temporary workaround as follows:

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1. Initially, assign the square root value to R-Type.
2. Assign this R-Type to 9, Z, or X type.

For an example,

```
LET (R-Type) = SQRT (number);  
LET (Z-Type) = R-TYPE;
```

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

```
-----% under-----  
Number: D500121905 Product: TRANSACT 32247A 08.05
```

Keywords: LET

One-line description:

LET (positive-real) = (-1 or (Neg'Item'Value)) produces no error.

Problem:

For the LET verb, the value assigned to a positive only real (R+) is not checked to verify that it is a positive value.

Some confusion may result by using the DISPLAY verb to test the positive real (R+) value. The DISPLAY verb will not print out an R+ value if it is negative. The negative value, however, is still there and usable in subsequent LET verbs.

Cause:

Transact/V has conversion routines for types "R" and "E" and conversion routines for all other data types. The conversion routines for "R" and "E" data types allow negative values to be loaded into a positive value only (R+, E+) item.

Temporary solution:

Programs may check for a value less than zero to enforce the positive only values in R+ and E+ items.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

```
-----% under-----  
Number: D500132365 Product: TRANSACT 32247A 08.05
```

Keywords: DISPLAY

One-line description:

DISPLAY to screen & file causes linecount errors and no CONTINUE (Y/N).

Problem:

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Use of DISPLAY to a screen and DISPLAY to a file will cause erratic line counting, irregular page breaks, and missing CONTINUE Y/N? prompts.

Cause:

When a page break occurs on the DISPLAY verb to a file, the line counter for the DISPLAY verb to a screen is also set to one.

Temporary solution:

No temporary workaround has been identified for this problem.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500132399 Product: TRANSACT 32247A 08.05

Keywords: DISPLAY \$PAGE TPRINT

One-line description:

DISPLAY to a file uses blocking factor as first PAGE number.

Problem:

If a blocking factor is specified for a file in the SYSTEM statement, then the file is used in a DISPLAY to a file, first page number will be equal to the blocking factor from the SYSTEM statement.

Cause:

The DISPLAY to a file and SYSTEM statement use the same memory location. The blocking factor left behind by the SYSTEM statement is not properly reset to 1.

Temporary solution:

Do not specify a blocking factor on a file which is to be used with the DISPLAY verb. If necessary, use an MPE file equate to specify the blocking factor externally.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500138578 Product: TRANSACT 32247A 08.05

Keywords: LIST

One-line description:

Continuous error message loop when INIT value > display length.

Problem:

If a DEFINE verb with an INIT=<value> has the correct number of display characters, but the number does not fit into the storage allocated, Transact/V and Transact/CM will print the error message "*ERROR: INPUT FIELD LONGER THAN <length>" in a continuous loop

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until the Transact processor is aborted.

The following lines will cause an infinite loop at runtime:

```
DEFINE(ITEM) integer i(5,,2), init=32768;  
LIST integer;
```

Cause:

Transact does not properly distinguish between the LIST verb with an INIT= option and the PROMPT verb. Transact incorrectly attempts to re-prompt a user for a valid number, then INIT= always provides the same invalid number. The cycle continues until Transact is aborted.

Temporary solution:

Correct the program statement which is in error. The error message provides the information necessary to correct the Transact program.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

```
-----% under-----  
Number: D500144121 Product: TRANSACT 32247A 09.00
```

Keywords: OUTPUT SORT

One-line description:

SORT= option on OUTPUT(SERIAL) is not displaying results in sorted order

Problem:

The SORT option on OUTPUT(SERIAL) does not work if the sort item specified is defined more than once in the LIST register.

Cause:

The cause of the SORT on OUTPUT(SERIAL) not working correctly is that TRANSACT sorts on the first occurrence of the item in the LIST register, while the data is read into the latest occurrence of the item. It only affects programs where the sort item has been added to the LIST register multiple times.

Temporary solution:

Depending on the program the workarounds are:

- 1) Rename the sort item to a unique name
- 2) Use RESET(STACK) LIST to reset the LIST register prior to adding the sort item to the register

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

```
-----% under-----
```

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Number: D500153809 Product: TRANSACT 32247A 09.02

Keywords: PROMPT

One-line description:

PROMPT(SET) gives invalid data with CHECK= option and carriage return.

Problem:

When the "PROMPT(SET) <item>,CHECK= <data set>" verb, modifier, and option are used without the STATUS option, then incorrect data may be returned to the item after the PROMPT(SET) completes.

Cause:

When PROMPT(SET) is used, Transact/V will add the item to the list register. If a user replies with a carriage return, PROMPT(SET) will mismanage the list and data registers, causing data from the wrong item to be returned.

Temporary solution:

You may use one of the following workarounds:

- * Use the PROMPT verb without the SET modifier with the CHECK option.
- * Use the DATA(SET) verb when using the CHECK option.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500155200 Product: TRANSACT 32247A 09.00

Keywords: CALL

One-line description:

Bad database reference (-11) if main program uses over 32k bytes stack.

Problem:

When a Transact program uses more than 32768 bytes of MPE/V stack space for the data register and the Transact/V program file, CALLED Transact subprograms will pass a blank (BASE) parameter for PROC verb until the associated database has been accessed by a Transact verb.

Cause:

When the main program data and code exceeds 32768 bytes, Transact/V and Transact/CM will open databases in CALLED subprograms when the databases are first accessed by a Transact verb. This is why the (BASE) parameter to the PROC verb is invalid until the database is used by a Transact verb.

Temporary solution:

1. Execute a Transact verb for the database within the subprogram before using the (BASE) construct of the PROC verb.
2. Reduce the program or data register size of the main program which calls the subprogram.

Fix information:

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Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500160077 Product: TRANSACT 32247A 09.00

Keywords: LIST PASSWORD

One-line description:

Passwords are not passed correctly to sub-programs.

Problem:

A problem exists when a variable is passed to a subprogram, and the subprogram is using the 'LIST x,PASSWORD' option where the passed password should be moved to 'x'. The correct password is not moved to 'x'. If a string is used in the CALL statement, the correct password IS moved to 'x'.

Cause:

The cause of the problem is that when a variable is passed as a password to a subprogram, it is passed as a structure, and not a string. In the subprogram it is treated as a string.

Temporary solution:

The only known workaround to this problem is to use a string instead of a variable in the calling program (CALL SUB("XX",.. instead of CALL SUB(x,..), if possible.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500168252 Product: TRANSACT 32247A 09.02

Keywords: LET VALUE

One-line description:

Get INTEGER OVERFLOW when LET (I) = maximum negative integer.

Problem:

Get an integer overflow error if the source code assigns the maximum negative integer constant to an integer item of either 2 or 4 bytes. The program below shows 2 source statements that will cause this run-time error.

```
SYSTEM OVERFL;  
DEFINE(ITEM) I2 I( 5,,2):  
              I4 I(10,,4);  
LIST         I2:  
              I4;  
LET (I2) =   -32768; << but OK if use   -32767 >>  
LET (I4) = -2147483648; << but OK if use -2147483647 >>  
EXIT;
```

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Starting with version A.10.00, this problem also applies to the new VALUE function of the MOVE verb.

Cause:

A call is made to the BINARY intrinsic for a 2 byte integer and DBINARY for a 4 byte integer to convert the number. However, before the intrinsic is called, the minus sign is stripped so that the absolute value of the number is used. This creates a problem since BINARY works on -32768 to 32767, but not 32768. Similarly, DBINARY is valid for -2147483648 to 2147483647, but not 2147483648.

Temporary solution:

Avoid using the numbers -32768 for 2 byte integers and -2147483648 for 4 byte integers in your Transact/V source code.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500183905 Product: TRANSACT 32247A 09.00

Keywords: MATCH

One-line description:

Match with wildcards is not handled properly when condition is not "EQ".

Problem:

If the match condition is not "EQ" and the match field characters are "-"s and the match field length is less than the item length, then the record qualifies as a match when it should not.

Additionally, if using other than Native-3000 language, the wild card character is not recognized. It is merely collated along with the other characters.

Cause:

If the condition is not "EQ" then nlcollate is used to determine if the field is "LT" or "GT" for the match field, ignoring the wild card characters.

Temporary solution:

There is no known workaround available.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----

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SRB detail reports as of 07/18/95

Number: D500186171 Product: TRANSACT 32247A 09.02

Keywords: LIST

One-line description:
LIST item,PASSWORD in a subprogram may return garbage.

Problem:
When a subprogram has the password provided as a CALL parameter, the LIST item,PASSWORD statement in the subprogram will return an uninitialized value.

Cause:
The area which contains the first password is not set to the correct value until a user is prompted for a password.

Temporary solution:
Use the PASSWORD initialization option only when the program prompts a user for the PASSWORD.

Fix information:
Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500186452 Product: TRANSACT 32247A 10.00

Keywords: TYPE INTEGER MATCH

One-line description:
Incorrect matching criteria for 8-byte integer items and negative values

Problem:
Incorrect records are selected when using an 8-byte negative integer in SET(MATCH), DATA(MATCH), or PROMPT(MATCH) statements. The records matched against also contain negative values.

For example:
DEFINE(ITEM) aitem I(18,,8);
PROMPT(MATCH) aitem;

When running Transact, the user is prompted and enters selection criteria:

AITEM> lt -200

The results are:	And should be:
AITEM:	AITEM:
-199	-300

Cause:
The comparison was being done incorrectly for 8 byte negative integers.

Temporary solution:
There are no known workarounds for this problem.

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SRB detail reports as of 07/18/95

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500187245 Product: TRANSACT 32247A 10.00

Keywords: MATCH FIND GET
TYPE INTEGER OUTPUT DELETE

One-line description:

No records found when selection criteria is a 12-byte integer

Problem:

No records are found when retrieving data that is based on a 12 byte integer value in the match register. GET, FIND, OUTPUT, and DELETE statements will return 0 records erroneously.

For example,

```
prompt(match) item1;  
output(serial) tfile,list=(item1);  
exit;
```

Results in,

0 RECORDS FOUND

Cause:

The code is missing for 12-byte integer comparisons.

Temporary solution:

Reset the match register and do the comparison within the retrieval loop. For example,

```
data item-in;  
reset(option) match;  
find(serial) tfile,list=(item1:itemn),perform=compare;  
  
compare:  
if (item1) > (item-in) then display "greater";  
return;
```

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500189811 Product: TRANSACT 32247A 10.01

One-line description:

REWIND of KSAM file fails if first record is marked for deletion.

Problem:

A KSAM file is not repositioned to the beginning when the automatic rewind for a SERIAL access command is performed by TRANSACT if the first record is marked for deletion.

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For example, an OUTPUT(SERIAL) will only output the records from the last access position instead of rewinding to the beginning.

Cause:

The FPOINT done to position the file at the beginning fails if the first record pointed to is marked for deletion. No error is returned and the pointers are not re-positioned.

Temporary solution:

No temporary workaround has been identified.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----
Number: D500190389 Product: TRANSACT 32247A 09.02

Keywords: REPLACE

One-line description:

REPLACE does not update KSAM records when item order not physical order.

Problem:

When items are not specified in the order of the physical record, the REPLACE verb will not update the MPE or KSAM file with the data in the data register.

Cause:

When the list does not include all items in their order of occurrence in the physical record using an "@" list or a range list, Transact will buffer the record on file input and file output. Transact does not transfer the data from the data register into the input/output buffer during a REPLACE verb, so Transact updates the record with the original data read from disc.

Data is transferred from the UPDATE register to the input/output buffer, so using the UPDATE register works for all lists.

Temporary solution:

1. Use the SET(UPDATE) statement in the PERFORM= routine to specify the item to be used for the update.
2. Use a range list with all items in the physical record order, or use the "@" list.

Fix information:

Fixed in Transact/V version A.10.02 and available on MPE V Release 40 and General Release patch TRVDV78.

Signed off 06/23/95 in release A10.02

-----% under-----

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SRB detail reports as of 07/18/95

Number: 5003214494 Product: DSN/CS 30131A 55.36

One-line description:
SHOWCOM cannot be ALLOW'd in 3P, workaround available with SLPATCH

Problem:
Cannot :ALLOCATE the :SHOWCOMM command.

Cause:
This problem was caused by a value being defined in the CS subsystem instead of allowing it to be defined in the INCLUDE file. This problem was introduced in Release 31 and also exists in Release 3P.

Temporary solution:
The SHOWCOM command is not executing even after an Allow from the master operator console. The SHOWALLOW indicates the command is available to the user. However, trying to executed the command results in a CIERR4307. This does not occur under MPE V/E R23.

This problem is occurring on MPE V/E 3P.

The workaround is to run a PRIV MODE program which sets all the capabilities on and, for obvious reasons, he'd like to not do that.

Easy to duplicate:
From the system console on ZEUS: (3P)
:showcom 15

```
LDN - 15
MESSAGES SENT 5570 MESSAGES RECD 2438758
LAST RECOVERABLE ERROR 0
LAST IRRECOVERABLE ERROR 0
LINE IS CONNECTED
```

(more not shown)

:ALLOW @.@;COMMANDS=SHOWCOM

Now same showcom command from another session:
SHOWCOM 15
OPERATOR REQUIRES PERMISSION VIA THE ALLOW OR ASSOCIATE COMMANDS.
(CIERR 4307)

```
:showallow
#S300 MANAGER.SYS
USER HAS THE FOLLOWING COMMANDS ALLOWED:
LOG SHOWCOM
```

It thinks it's there but you just can't do it.

Tried to ACCOCIATE class LANIC to a vinilla account, mgr.pvs:
:run asoctl5

```
ASOCTBL5 G.03.07 (C)
>lanic = mgr.pvs
>exit
Then from MGR.PVS:
:showcom 15
EXECUTING THIS OPERATOR COMMAND BY OTHER THAN THE MASTER
OPERATOR REQUIRES PERMISSION VIA THE ALLOW OR ASSOCIATE COMMANDS.
```

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(CIERR 4307)

That doesn't work either..
Confirmed it works fine on Release 30.

Temporary workaround is as follows:
We can fix this code in COMSYS1
306.4250 021055 "- LDI 45

can be changed to:
306.4250 021050 "- LDI 40

RUN SLPATCH.PUB.SYS (as MANAGER.SYS)
?COMSYS1,D,4250,1 to display the value, it must be 21055.
021055
?COMSYS1,M,4250,1
021055 _ 021050 Then make a COLDLOAD tape and boot from it.
?exit

-----% under-----

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Number: 4700102616 Product: MPE V/E 32033G OX.16

Keywords: SPOOK

One-line description:

SPOOK should print SECURITY VIOLATION, not FILE NOT FOUND

Problem:

For users with limited capabilities, SPOOK searches for spoolfiles by USER.ACCT. For example, if >S #014 is entered, it would look for device file id 14 under USER.ACCT. If the spoolfile exists but belongs to some other user, it prints "The specified file was not found. (SPERR 31).

Temporary solution:

There is no temporary work around for this problem.

-----% under-----
Number: 4701222745 Product: MPE V/E 32033G 11.00

Keywords: SF2559

One-line description:

SF16 or 59 if 1st accessor of msgfile run w/ NOCB and uses ;COPY

Problem:

When a message file is opened with COPY and NOBUF mode by an application running with NOCB, the exclusive access mode was not handled correctly. The second accessor could have the same message file open in the native mode. And if the first accessor closes the file prior to the second accessor, it causes system abort 2559 when the second accessor is trying to FCLOSE that message file.

Cause:

When a message file is opened in copy mode, the FCB is normally created on a process stack. However, it is not true if an application is running with NOCB. In that case, it is created on a DST. Therefore, the second accessor bypassed the check which would normally fail if it has been accessed in copy mode.

Temporary solution:

Do not run programs that access message files with ;NOCB

-----% under-----
Number: 4701240150 Product: MPE V/E 32033G 00.00

One-line description:

MPE allows more than 2 chars for year in labelled tape exp date w/o err.

Problem:

A four digit year in the label= parameter of a file equation is accepted by the FILE command, but is formatted incorrectly by LISTEQ.

For example:

:file t;dev=tape;label=foo,ans,05/16/1991

:listeq

FILE T;DEV=TAPE;LABEL=foo,AWS,05/11991

Then, the STORE/RESTORE will fail with either an FSERR 116 or S/R 63 followed by S/R 6093.

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Cause:
Under investigation.

Temporary solution:
Use 2 digit years.

-----% under-----
Number: 4701243071 Product: MPE V/E 32033G 12.00

One-line description:
DELETEVAR GIVES MISLEADING MSGs WHEN TRYING TO DELETE JCW or CIERROR

Problem:
The DELETEVAR command which was added to MPE V Release 31 gives a misleading error message when a user attempts to delete a system reserved JCW. The message indicates that the JCW has not been defined and is confusing, since a SHOWJCW will show that the JCW does exist.

For instance, :DELETEVAR HPMINUTE will give the following error message on MPE V:

THIS JCW HAS NOT BEEN DEFINED. (CIERR 1731)

on MPE iX:

VARIABLE IS NOT DELETABLE. (CIWARN 8170)

Cause:
The cause of the problem is that when the DELETEVAR command was added to Release 31 of MPE V, a new message was not added to the message catalog to cover the situation where a user attempts to deletevar a system reserved JCW.

Temporary solution:
There is no temporary work around. The user needs to understand that the message is misleading.

-----% under-----
Number: 4701249086 Product: MPE V/E 32033G 12.00

Keywords: SF310

One-line description:
SF310 in SECURITYPROC in UTILITY2 due to integer overflow

Problem:
SF 310 due to an Integer Overflow from the security monitor system process. See the Temporary work around for further details.

Cause:
This problem is caused by an integer overflow.

Temporary solution:
Decrease the value of the new device timeout interval (0 - 32766 seconds) found in item 3 (Maximum Invalid Logons per Device) of the 1.-Global menu of SECCONF to a value much less than 32766 so the system can up the terminal before an integer overflow can occur. A value

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of 30000 ought to be fine.

-----% under-----
Number: 4701257600 Product: MPE V/E 32033G 12.00

One-line description:

THE MPE ERROR MSG CARET IS OFF ONE BYTE IF ERROR ON CMD AFTER REDO.

Problem:

The problem is that the procedure CIERR which calculates where the caret should be printed assumes that there is a ":" as the first character on the user's screen and compensates for the colon. However, if the user was REDOing the command and made a mistake, the colon is not on the screen because the REDO command only print what the user typed and that does not include the colon.

Cause:

This problem was caused by an oversight in the routine that prints the carat that points to the place where a command is in error.

Temporary solution:

There is no temporary work-around for this problem.

-----% under-----
Number: 4701263004 Product: MPE V/E 32033G 12.00

One-line description:

SPOOK5 produces corrupt tapes on OUTPUT command.

Problem:

Customers cannot recover selective files from a SPOOK5 tape created using the MPE/V Release 3P version or if all files are restored, an error message (SPERR 53) saying that the tape is not a SPOOK tape is displayed after the files are restored. In fact, all of the files that should be on the tape are there. Refer to the Temporary Work Around section of this SR for recovery procedures.

Cause:

This problem only happens if the file set specified in the OUTPUT command would also include OPEN files (files still being created). For example, if the command "O@.@" was issued (notice that a back reference to tape is no longer required) and there were any OPEN files on the system, then the SPOOK5 output tape would not be correctly written thus creating this problem. What SPOOK5 has always done is to create the list of "possible" files to be stored on the tape and then written the directory on the tape. Then, when actually storing the data for each file on the tape, it first writes a header (SPOOK file label) before writing the contents of the file to tape. If the spool file was OPEN when it became time to write the contents of the file to tape, SPOOK5 would write a dummy header on the tape for use when trying to recover selective files.

When trying to recover selective files, SPOOK5 would examine the directory and count how many files down the desired file is on the tape. With this problem, the dummy header would not be written on the tape, so the SPOOK5 INPUT command could not find the correct file.

Temporary solution:

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With this problem, the dummy header would not be written on the tape, so the SPOOK5 INPUT command could not find the correct file.

With the Cause of the problem identified, there are a couple of work arounds that can be used. The first is to try not to create a bad tape by making sure that there will not be any OPEN spool files in the file set used to specify what files are to be written on tape.

If, however you have a bad tape, the file(s) can be recovered by using the SPOOK5 INPUT command to input all files from the tape and then use the SPOOK5 wildcard DELETE command to get rid of any unwanted files leaving only the desired file(s) left on the system. This work around works because if the file specification says "recover all files from the tape" (use the command I@.@ for this) then SPOOK5 ignores the directory and recovers all files from the tape stepping over any dummy file headers if there are any on the tape. Since it is not counting files, SPOOK5 will not know that the dummy file headers are missing from the tape and the files can be recovered.

There is a patched version of the SPOOK5.PUB.SYS program available.

-----% under-----
Number: 4701267831 Product: MPE V/E 32033G 12.00

Keywords: FREAD FILESYS

One-line description:

FREAD OF AN OPEN SPOOLFILE FAILS WITH FSERR 0 ON 3P. FIX IS MPEDV95 A.

Problem:

A change to MPE V 3P was made to the MPE V file system that should have excluded spoolfiles. The code to exclude spoolfiles from an additional file type check was incorrect. This results in an FSERR 0 being returned if an FSOPEN is attempted on an already opened spoolfile.

Cause:

A change to MPE V 3P was made to the MPE V file system that should have excluded spoolfiles. The code to exclude spoolfiles from an additional file type check was incorrect. This results in an FSERR 0 being returned if an FSOPEN is attempted on an already opened spoolfile.

Temporary solution:

I have set up a fix for the next release of MPE, and have also created a binary patch for the problem. There is also a general release patch MPEDV95 R.

The solution is to check the SPOOLF flag in FOPENDA instead of the ACBSPOOLED bit. This can be accomplished with a binary patch.

The following are the SLPATCH.PUB.SYS commands

```
-RUN SLPATCH.PUB.SYS  
SL.PUB.SYS  
FILESYS4'6,D,7000,3  
FILESYS4'6,M,7000,3  
041447  
000000
```

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```
000000
FILESYS4'6,D,7000,3
FILESYS4'6,D,12212,1
FILESYS4'6,M,12212,1
123563
FILESYS4'6,D,12212,1
EXIT
```



The checksum of FILESYS4'6 changes from %147610 to %123563.
FILESYS4'6 has 3 instructions changed at the following offsets
(in FOPENDA at offset %2451):

```
7000 021447 #' LDXI 39 -----> 041447 C' LOAD Q+ 047
7001 047424 0. LOAD Q+ 024,I,X -----> 000000 .. NOP ,NOP
7002 026401 -. EXF (0:1) -----> 000000 .. NOP ,NOP
7003 021406 #. LDXI 6
7004 047424 0. LOAD Q+ 024,I,X
7005 026443 -* EXF (2:3)
7006 022004 $. CMPI 4
```

The checksum was then recalculated and changed from 147610 to 123563:

```
          /-Old checksum          /-New checksum
          /                          /
0.12212 147610 .. BR Q- 010,I,X -----> 123563 .s DECM Q+163,I
```

RUN CHECKSUM.HPSUP.TELESUP to verify that the checksum of FILESYS4'6
matches the value 147610.

```
:run checksum.hpsup.telesup
```

```
-----
CHECKSUM (A.01.07)          MPE V - HP3000 System Support Tool
THU, JUN 22, 1995, 2:31 PM Copyright Hewlett - Packard Co. 1983
CHECKSUM is designed for use by Hewlett Packard Support personnel
HP IS NOT LIABLE FOR DAMAGES RESULTING FROM UNAUTHORIZED USE
-----
```

```
File name >> sl.pub.sys          <<-----User Input
Segment name >> filesys4'6      <<-----User Input
      FILESYS4'6          Computed: 147610 Retrieved: 147610
Segment name >> <<carriage return>> <<-----User Input
File name >> <<carriage return>> <<-----User Input
END OF PROGRAM
```

NOTE: IF CHECKSUM IS NOT %147610 DO NOT SLPATCH SEGMENT FILESYS4'6!

```
:RUN SLPATCH.PUB.SYS          <<-----User Input
SLPATCH G.03.07 (C) HEWLETT-PACKARD CO., 1976
SL FILE? SL.PUB.SYS          <<-----User Input
?FILESYS4'6,D,7000,3        <<-----User Input
```

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021447
047424
026401

WARNING: IF THE ABOVE 3 VALUES ARE NOT THE DISPLAYED VALUES,
DO NOT USE THE NEXT COMMANDS TO MODIFY SEGMENT FILESYS4'6!

```
?FILESYS4'6,M,7000,3          <<-----User Input
021447 _ 41447                <<-----User Input
047424 _ 0                    <<-----User Input
026401 _ 0                    <<-----User Input
?FILESYS4'6,D,7000,3          <<-----User Input
041447
000000
000000
?FILESYS4'6,D,12212,1         <<-----User Input
147610
?FILESYS4'6,M,12212,1         <<-----User Input
147610 _ 123563
?FILESYS4'6,D,12212,1         <<-----User Input
123563
?exit                          <<-----User Input
```

END OF PROGRAM

:run checksum.hpsup.telesup

```
-----
CHECKSUM (A.01.07)           MPE V - HP3000 System Support Tool
THU, JUN 22, 1995, 2:31 PM Copyright Hewlett - Packard Co. 1983
CHECKSUM is designed for use by Hewlett Packard Support personnel
HP IS NOT LIABLE FOR DAMAGES RESULTING FROM UNAUTHORIZED USE
-----
```

```
File name >> sl.pub.sys          <<-----User Input
Segment name >> filesys4'6       <<-----User Input
      FILESYS4'6           Computed: 123563 Retrieved: 123563
Segment name >> <<carriage return>> <<-----User Input
File name >> <<carriage return>> <<-----User Input
END OF PROGRAM
```

The system must now be COOLSTARTED for the change to be activated.
Also, a new COLDLOAD tape should be created to save the change.

```
-----% under-----
Number: 5000423079 Product: MPE V/E 32033G 02.BO
```

One-line description:

SPOOK allows delete of READY spoolfile while OUTPUT @.@ is being done

Problem:

SPOOK does not show the right error message for deleting READY spoolfile
while OUTPUT @.@ is being done.

Cause:

The problem is caused by a bug in procedure OUTFILES. SPOOK does not
display the right DFID for "FILE NOT FOUND". The problem is only in the
error message displayed; the tape is correct.

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SPOOK does not lock spoolfiles between their selection and their output, so it is possible for files to be deleted in between. Since SPOOK also writes a copy of the ODD (the spoolfile directory) at the beginning of the tape, this means that the directory on tape contains a spoolfile entry for a file which is not actually on the tape. To prevent problems when using the directory to input files, SPOOK writes a special "no file" record for any deleted files.

Temporary solution:

There is not any work around for this problem.

-----% under-----
Number: 5003104992 Product: MPE V/E 32033G 10.00

One-line description:

SPOOK DELETE command selects OPEN files - warning message misleading...

Problem:

This error message is issued because SPOOK gets an error trying to purge the file. Since a spool file in the OPEN state means it is just now being created, the user may not even know someone else is creating it and probably did not intend to purge it. Therefore, the code will be changed to simply ignore the error and not issue an error message.

Cause:

This problem is caused by the fact that the code does not realize that the OPEN state means it is just being created and the user probably did not want to purge the file. The code will be changed to not issue the error message for OPEN files.

Temporary solution:

There is no temporary workaround for this problem.

-----% under-----
Number: 5003162362 Product: MPE V/E 32033G 11.00

One-line description:

SPOOK5 displays wrong date for two digit months in Release 31

Problem:

Under certain conditions, the first digit of the month in the long version of the show command could be replaced with a "0" (zero) leading one to believe the spool file is much older than it really is. For example, a spool file created on 11/08/93 would show as having been created on 01/08/93. This will only happen to spool files created in month number 11 (November) of any year.

Cause:

This problem occurred when putting enhancements into SPOOK5 for Release 31 of MPE V/E.

Temporary solution:

There is no direct work around, but the code of the SPOOK5 program can be easily patched to work correctly as follows:

Log onto MANAGER.SYS,PUB
:RUN PATCH
FILE=?SPOOK5

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?M,2.7530,1 <<NOTICE ALL OF THE COMMAS>>
045414,041402
?EXIT

Refer to the MPE V Utilities manual for further information on the PATCH utility.

Note that this temporary solution does not apply to G.3P.00.
See MR text from 11/02/94 for offset to use for this version.

-----% under-----
Number: 5003215277 Product: MPE V/E 32033G 12.00

One-line description:

SP00K5 truncates records on 3P when COPY command is used with CCTL

Problem:

If using the SP00K5 COPY command back referenced to a disk file with CCCTL, SP00K5 drops the last byte of each record.

Cause:

This problem was caused by enhancements being put into SP00K5 for the Release 31 of SP00K5.

Temporary solution:

Either go back to an earlier version of SP00K5 (Release 30 or earlier) or do not use the ;CCTL specification on the file equation.

-----% under-----
Number: 5003227280 Product: MPE V/E 32033G 12.00

One-line description:

SP00K5 on 3P changed the prompting in batch mode.

Problem:

While enhancing SP00K5, it was decided that the prompt would not be written to \$stdlist if the program was being run in job mode. It turns out, however, that a customer depends on this prompt being written out.

Cause:

While enhancing SP00K5, it was decided that the prompt would not be written to \$stdlist if the program was being run in job mode. It turns out, however, that a customer depends on this prompt being written out.

Temporary solution:

There is no temporary work around for this problem other than go back to a previous version of SP00K5 or request the patched version from the HP Response Center.

-----% under-----

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HP Part No.: 32033-90405

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