HP 1000
SOFTWARE STATUS
BULLETIN

15 February 1985

HEWLETT
PACKARD

DATA SYSTEMS DIVISION
Cupertino, California

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P R E F A C E

This Software Status Bulletin (SSB) documents all known problems in the HP 1000 software product line, as of the date shown. The SSB is derived from Known Problem Reports (KPR) which result from Service Requests (SR) submitted by users of these products. The SSB is provided as a benefit of Hewlett-Packard's Comprehensive Software Support Service, Software Subscription Service, and Software Notification Service.

Not all SR's submitted to HP are listed in the SSB. Ones which involve problems that cannot be duplicated, requests for enhancements and misunderstandings about an application or a feature are not listed in the SSB. SR's which refer to a previously documented problem are cross referenced within the report which originally identified the problem. Every SR verified by an HP Systems Engineer and sent to the factory is assigned a unique identifier and acknowledged by letter to the SE. When the SR is classified as a documentation problem or a software design fault, a KPR is written for it. The KPR then appears in the next issue of the SSB. After the problem has been corrected and signed off by Product Assurance, the fact is noted in the KPR with the following statement: "Date fix signed off : mm/dd/yy Rel: XX.XX.". When a new software release is made for the product line, all problems that were corrected in that release are reported in the Software Update Notice for that release and the KPR's are removed from the SSB.

The SSB is distributed in complete form once every calendar quarter. Between quarterly issues, bi-monthly issues containing only problems documented since the last SSB issue are distributed. This means, that to have a complete list of all outstanding problems you must have the last quarterly issue and all monthly issues since that quarterly.

Of the five sections contained in the SSB, only the last (known problem reports) has page numbers. The product, KPR number and keyword indexes all reference these page numbers to direct the user to a particular area or individual detailed report. The five sections are described below:

SOFTWARE RELEASE CONTENTS

This section gives you the revision code of the current software release and the previous software release for the product line. Additionally, the current and previous revision codes are given for each product contained in the product line.

PRODUCT INDEX

The bi-monthly issues have one product index. The quarterly issue has two; the first referencing the problems that were documented since the last bi-monthly issue, and the second referencing problems reported in a previous issue of the SSB. Each unique product name/number has an entry listing the page number where the KPR's against that product begin.

KPR NUMBER INDEX

A sequential list of KPR numbers with the corresponding page number where the KPR can be found.

KEYWORD INDEX

This index is sorted by product name, keyword, product number (including revision code) and by KPR number in that order. Along with the sort items, each entry has a brief (72 character) description and the page number where the KPR can be found. New entries in the Quarterly Issue are denoted by an asterisk in the keyword index.

KNOWN PROBLEM REPORTS

Each report contains all the available information relevant to the symptoms, cause and fix of the problem as well as any temporary workarou

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Hewlett-Packard
ATTN: Service Requests
3300 Scott Boulevard
Santa Clara, CA 95051

Hewlett-Packard
ATTN: Service Requests
1765 The Exchange, Suite 100
Atlanta, GA 30339

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	92077A	00.00	RTAGN doesn't handle LU's > 99 very well	5000016709	26
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DRIVERS	92077 MANUAL	23.26	Documentation errors in priviledged driver example	2200009951	27
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- RTE-A/VC+ -

Keyword	Product number	uu.ff	Description	KPR number	page
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SWAPPING	92078A	00.00	Swap file must be greater than two blocks	5000015552	28

KPR #: 2200014456 Product: 8 CHANNEL MUX-B MEF 12792B 13.83

Keywords: MUX-8 CHANNEL

One-line description:
device issues xoff, then goes down, when comes back up, doesnt talk.

Problem:
A device utilizing XON/XOFF handshaking will hang the mux port if it does not return an XON character.

Cause:
If a device (i.e. a printer) is connnected to a mux port, and in the process of printing it goes down, the last character the printer received was an XOFF. Since the printer has gone down, it will not send an XON character, which the mux port is waiting for.

Fix information:
The Mux driver has been modified to support a force XON control request from a different port. The format is CN,1u,34B,2, which keeps XON/XOFF enabled, but forces an XON condition. Available A.85

KPR #: 5000018622 Product: 8 CHANNEL MUX-B MEF 12792B 23.01

Keywords: MUX-8 CHANNEL

One-line description:
when b-mux is enabled for even parity and device not on, port hangs

Problem:
IF the mux with Rev-B firmware is enabled with even parity and a terminal is connected or turned on after bootup, the MUX port will hang.

Cause:
When the MUX SIO chip is initialized to odd or even parity, an interrupt can occur while the chip is being initialized, which will cause the SIO chip to go into an unknown state.

Fix information:
The Mux firmware has been modified to turn off interrupts during the initialization of the SIO chips. New firmware numbers are 5180-7228 or 5180-7227 which will be available at A.85

KPR #: 2200009332 Product: FORTRAN 77 92836A 23.26

Keywords: FUNCTIONS

One-line description:
Incorrect file size returned for INQUIRE statement.

Problem:
Incorrect file size returned from INQUIRE on sparse files.

Cause:
The problem occurs when writing to a higher numbered record, E.G. record 30, without writing into the lower records. When writing to Fixed-Length-Record files in this way, the higher numbered file extents are created without the intervening low-numbered extents. It appears that the 'INQUIRE` returns the number of records which will fit into the existing extents, but does not include the records that could reside in the missing extents.

Temporary solution:
Use FMP record count to determine the file size. This returns the correct length including the missing extents.

KPR #: 2200010298 Product: FORTRAN 77 92836A 23.26

One-line description:
BAD MESSAGE: ** COMPILER ERROR 6/024735B ** PLEASE REPORT TO HP **

Problem:
The following code will cause an internal error in the compiler:

```
   FREQ2 = 38.92884 * ALOG10((I+1)/I) + FREQ1
   PRINT '(I5,5X,F103)', I, FREQ2
```

Cause:
The compiler will correctly generate an error on the ALOG10 invocation (the argument should not be integer), but then the compiler aborts with an internal error.

Fix information:
Fixed in A.85 revision.

KPR #: 2200012260 Product: FORTRAN 77 92836A 22.26

Keywords: FUNCTIONS

One-line description:
CORRUPT CODE FOR LONG HOLLERITH IN IMPLIED DO LOOP.

Problem:
FORTRAN compiles the following code ok

```
Write (1,*) (IFUNC (I, 8H01234567), I=1,8)
```

But compiles the following incorrectly

```
Write (1,*) (IFUNC (I, 10H0123456789), I=1,10)
```

Fix information:

Fixed in A.85.

KPR #: 2200012716 Product: FORTRAN 77 92836A 23.40

Keywords: HP-IB

One-line description:
Write to HP-IB instrument fails if LGBUF is used

Problem:
I/O to non-HP and older HP HP-IB instruments can fail (with error 494) on an A-series if LGBUF is used to specify a large buffer.

Temporary solution:
Limit the buffer size to less than 128 words or use a call to REIO.

KPR #: 2200013698 Product: FORTRAN 77 92836A 23.40

Keywords: COMPLEX

One-line description:
Real statement with complex types.

Problem:
The following code does not work:

```
  EMA B1
  COMPLEX ONE
  ONE = (1.,0.)
  B1 = REAL(ONE*ONE)  -> REAL is a REAL*4 function
  ...
```

Cause:
In doing the assignment from the REAL*4 function to the EMA variable, the FTN7X-generated code seems to be using a temporary variable twice.

Fix information:
Fixed in A.85.

KPR #: 2200014357 Product: FORTRAN 77 92836A 22.26

Keywords: CROSS REFERENCE

One-line description:
Incorrect cross-reference when using $ema.

Problem:
USING THE $EMA DIRECTIVE CAUSES FTN77 CROSS-REFERENCE MODULE TO PRODUCE INCORRECT RESULTS IN A BLOCK DATA SUBROUTINE. THE ERROR ONLY OCCURS IF ARRAYS DECLARED IN THE BLOCK DATA ROUTINE. THE SAME BLOCK DATA ROUTINE WITHOUT $EMA WORKS FINE WITH THE CROSS-REFERENCE GENERATOR.

KPR #: 5000031799 Product: FORTRAN 77 92836A 23.40

Keywords: STATEMENT

One-line description:
PCOUNT RETURNS GARBAGE FOR FUNCTION TYPES OF REAL*6, REAL*8, AND CHAR.

Problem:
PCOUNT returns incorrect value for function types that return their result as CHARACTER or DOUBLE PRECISION (REAL*6 or REAL*8). This problem only occurs in non-CDS code. The corresponding CDS version works as expected.

Cause:
A similar problem was first reported under #2200-056382. That problem gave a PCOUNT value of N+1 instead of N parameters passed. Apparently the fix was to subtract 1 from the result which then trashed a pointer.

Fix information:
Fixed in A.85 revision.

KPR #: 5000037952 Product: FORTRAN 77 92836A 00.00

Keywords: PARAMETERS

One-line description:
PASSING A CHARACTER FUNCTION AS ARGUMENT CAUSES PROGRAM TO MP.

Problem:
Character functions can not be passed as arguments to subroutines. Fortran specifies that functions and subroutines can be passed to subprograms. This works fine with integer and real functions under the FTN7X compiler, but generates MP violations when passing character functions as arguments.

Fix information:
Fixed in A.85.

KPR #: 5000041210 Product: FORTRAN 77 92836A 23.40

Keywords: FUNCTIONS

One-line description:
COMPLEX FUNCTION CALLED WITH ONE PARAMETER.

Problem:
The compiler generates an error when using the complex and double complex functions with only one argument. This disagrees with the documentation.

Cause:
Note 4 on table b-1 of the ftn77 compiler manual says that the complex and double complex functions may be called with either one or two parameters. If they are called with one parameter, it is taken to be the real part and a zero value is taken for the imaginary part.

If you try to do for example:

```
real*4 a(6),b,c
complex*8 zz
zz=cmplx(a(3))
```

you generate a complier error 59... wrong # of arguments.

Fix information:
Fixed in A.85.

KPR #: 2200018176 Product: IMAGE/1000-II 92081A 24.01

One-line description:
DBSTR sometimes calculates the wrong file size for backup file

Problem:
The 2340 version of DBSTR for IMAGE/II has a bug which can create corrupt backup files. If the block size is a multiple of 64, then DBSTR will calculate one extra block for the file size. When DBRST goes to work, it will get an FMP -12 error when it trys to write that extra record past the end of file marker.

KPR #: 5000052118 Product: IMAGE/1000-II 92081A 24.01

One-line description:
manual has transposed root namr and storage namr for DBUTL LD and LD

Problem:
IMAGE/1000-II MANUAL IS WRONG IN DESCRIBING PARAMETERS FOR RUNNING DBUTL FOR LOADING/UNLOADING THE DATABASE. THE MANUAL DESCRIBES THE RUN STRING FOR RUNNING DBUTL FOR UNLOADING THE DATABASE AS FOLLOWS:
DBUTL,UL,ROOT NAMR,STORAGE NAMR,LEVEL,ABORT OPTION

THE ROOT NAMR AND STORAGE NAMR MUST BE TRANSPOSED IN THE RUN STRING FOR THIS TO WORK PROPERLY. THE MANUAL SHOULD CHANGED TO REVERSE THE ROOT NAMR AND THE STORAGE NAMR PARAMETERS.

THIS IS ALSO TRUE FOR THE DBUTL 'LOAD' (LD) COMMAND. THE MANUAL HAS THE ROOT NAMR & STORAGE NAMR PARAMETERS TRANSPOSED.

Fix information:
The manual was fully corrected at the A.85 PCO.

KPR #: 2200018200 Product: MT/CS80 DIAGNOS 24398B 24.01

Keywords: DIAGNOSTICS

One-line description:
TESTM gives NO LU FOUND error message.

Problem:
Module Name: MT/CS80 Diagnostics
Part Number: 24398B
Revision: 2401
Title: TESTM Diagnostic Does Not Work
Additional Information: The TESTM diagnostic, which tests the 37214A Modem Card Cage, and also tests the 37222A Modem card, cannot be run at all. You are required to use LU numbers 10-17 for the modem LU's. The problem is, no matter what LU number is used, the diagnostic returns the error message NO LU FOUND. I tried to run the TESTM diagnostic on a system that included a 37214A Modem Card Cage, two 37213A Modem cards inside the modem card cage, and a 12040B MUX at select code 21B. When I ran TESTM, I got the NO LU FOUND error message. I also tried changing the select code of the MUX card to 23B, and 33B, with negative results.

Cause:
Problem:
The subroutine GETLU in TESTM is sensitive to driver changes. MUX interface driver (IDM00), and terminal device driver (DD.00) changes have shifted the DVT extension words corresponding to control functions 30B, and 33B, which are used in GETLU of TESTM.
Solution:
Change GETLU in TESTM to get the correct DVT extensions.

Fix information:
This will be fixed at A.85.

KPR #: 2200012666 Product: RTE-4B 92068A 23.08

Keywords: LIBRARY

One-line description:
module 'GTID' in $RSLIB on RTE-4B has new nam record.

Problem:
The module GTID is in $RSLIB but is in new relocatable format. RTE-IVB loadr skips over new relocatables and does not find GTID.

Temporary solution:
Run OLDRE (RTE-4B version) on $RSLIB.

Fix information:
This is fixed A.85

KPR #: 2200013292 Product: RTE-4B 92068A 23.01

Keywords: READR

One-line description:
READR doesn't check lu# of LI: command and can override a tape data

Problem:
BY USING THE LI:<LU> COMMAND THE USER CAN WRITE OVER THE DIRECTORY AND A PORTION OF THE ACTUAL FILES ON THE TAPE.
BECAUSE READR KNOWS THE LU OF THE MAG TAPE IT SHOULD NOT ALLOW ANY TYPE OF WRITE TO THAT LU.

IF THE DIRECTORY HAS ALREADY BEEN READ IN TO MEMORY, (WITH A PREVIOUS LI COMMAND) THEN WHEN LI:<MAG TAPE> IS ENTERED READR WILL OVERWRITE THE FIRST FILE. IF THE DIRECTORY HAS NOT BEEN PREVIOUSLY READ THEN LI:<MAG TAPE> WILL INTERLEAVE THE INPUT FROM THE TAPE AND THE OUTPUT TO THE TAPE THUS DESTROYING THE DIRECTORY AND THE FIRST FILE.

Temporary solution:
The LI Command should not be used to the tape LU.

Fix information:
To be fixed at B.85. The lu of the LI command will be checked and the request will be rejected if it is the same lu specified by the MT command.

KPR #: 2200016022 Product: RTE-4B 92068A 23.08

Keywords: RTE-IVB

One-line description:
SAVER saves illegal filenames

Problem:
FMP will open/read/write a file with an illegal name because of the scratch file capability. The CRETF call, however, will not create a file with an illegal name, unless a special option is supplied.

The file name should be checked before saving and purging the file
or READR should be modified to use the special option in the CRETF call.

Fix information:
The fix for this is currently under investigation.

KPR #: 2200004333 Product: RTE-4B MANUALS 92068 MANUAL 23.01

Keywords: DOCUMENTATION ERRORS READR SAVER

One-line description:
READR/SAVER Manual references %$FREV

Problem:
READR/SAVER manual references a file %$FREV.
Page 5-2 of the READR/SAVER manual indicates that the user must search
%$FREV when loading SAVER. There is no file called %$FREV.
The entry point $FREV is in %BMPG3.

Fix information:
The reference to %$frev will be deleted at B.85.

KPR #: 2200003277 Product: RTE-6 MANUALS 92084 MANUAL 23.01

Keywords: RTE-6/VM

One-line description:
.FMVO 2nd parameter passed is not returned

Problem:
Pg 5-57 .FMUO 2nd parameter, buffer size, must be passed to subroutine other wise you get a DM violation. The manual states it's returned from .FMUO

Fix information:
Fixed in A.85 update.

KPR #: 2200007344 Product: RTE-6 MANUALS 92084 MANUAL 23.03

Keywords: FC

One-line description:
FC UTILITY GROUP COMMAND CAN SPECIFY ONLY 150-180 FILES

Problem:
In group mode only about 150 files can be specified which is not enough when going from disc to tape.

Cause:
Only a fixed number of files can be group copied from a given LU. That number varies (usually 150 or 180), but if that number is exceeded, an "out of memory" message is generated. This is a known limitation of FC, but has never been logged, and is NOT documented. It might be classified as a new problem, but it can not be fixed without a major rewrite of FC.

Temporary solution:
For disc to tape, the entire lu can be copied.

Fix information:
This limitation will be documented at B.85

KPR #: 2200010082 Product: RTE-6/VM 92084A 23.40

One-line description:
Remote DL does not report open files correctly

Problem:
A REMOTE DL REPORTS OPEN FILES INCORRECTLY. IF A FILE IS OPEN ON A REMOTE NODE THE PROGRAM NAME WHICH DL REPORTS AS BEING THE LOCKING PROGRAM IS TAKEN FROM THE LOCAL NODE, NOT THE REMOTE NODE.

Fix information:
Fix under investigation.

KPR #: 2200013516 Product: RTE-6/VM 92084A 23.01

Keywords: FMGR

One-line description:
Enhancement request: AN command doesn't work if list device is a file

Problem:
THE FMGR COMMAND "AN" DOES NOT WORK IF THE LOGICAL LIST DEVICE IS A FILE. THE COMMANDS:

```
:LL,FILE
:AN,TEST
```

ALWAYS GIVE AN ERROR (FMGR - 032; DISC CARTRIDGE NOT FOUND).

Temporary solution:
Use the DU command when the list device is a file.

KPR #: 2200014191 Product: RTE-6/VM 92084A 23.40

Keywords: LINK

One-line description:
Error 117 better documented

Problem:
LINK's error 117 (allocate type mismatch) is not clear.

Cause:
The error message needs to be enhanced to provide better information.

KPR #: 2200014472 Product: RTE-6/VM 92084A 23.40

Keywords: LINK

One-line description:
Suppress listing to terminal doesn't work when going to printer

Problem:
LINK sometimes creates too many load maps.

Cause:

This is caused by incorrect internal logic in determining the load map destination.

KPR #: 2200016378 Product: RTE-6/VM 92084A 23.40

Keywords: TF

One-line description:
TF can lock up an RTE-6 system

Problem:
Apparently when TF looks for tape header information on a tape that was not last used by TF, there is a chance that the info that is there can put TF in a loop and hang the system.

KPR #: 2200017699 Product: RTE-6/VM 92084A 23.40

Keywords: LINK

One-line description:
Non System Manager's can no longer overlay type 6 files on LU 2/3

Problem:
Non-system managers can place a type 6 file on Lu 2/3 using LINK.
They can not however, replace an existing file on Lu 2/3 from LINK.

Cause:
This feature was added to LINK at 2340, so that non-system managers could not replace type 6 files on Lu 2/3. Perhaps this needs to be explained better in the LINK manual.

KPR #: 2200018127 Product: RTE-6/VM 92084A 23.40

Keywords: RT6GN

One-line description:
Has problems genning $FNEWF

Problem:
The $FNEWF module can not be generated in at 2340.

Temporary solution:
$FNEWF should be put into the snap file with LINDX.

Fix information:
Fixed at A.85. The generator now allows long entry point names.

Signed off 01/30/85 in release 24.40

KPR #: 5000028415 Product: RTE-6/VM 92084A 00.00

Keywords: LINK

One-line description:
Common and subr name the same links but dies

Problem:

RTE-6/LINK C.83. A Fortran program has a label common name 'abort'; a separately compiled subroutine's name is 'abort'. LOADR will flag this at load time. LINK will link as if nothing happens; the program will then bomb.

Cause:
LINK sometimes matches ALLOC symbols with EXT symbols in situations when no match should be done.

Temporary solution:
Different names should be used for subroutines and label common.

KPR #: 5000030007 Product: RTE-6/VM 92084A 00.00

Keywords: GENERATION

One-line description:
Declare DBGHD,0 in parameter input phase

Problem:
The program type for the header is type 3 rather than type 0. This causes DBGHD to show up in the list of background program page requirements with a size of one page.

Temporary solution:
Declare DBGHD,0 in the parameter input phase of your generation.

KPR #: 5000031781 Product: RTE-6/VM 92084A 23.40

Keywords: CI

One-line description:
This is a duplicate of 2200-011379

Problem:
CI DL command cannot find all FMGR CR's for MANAGER.SYS. If MANAGER.SYS runs CI, 'DL' does not indicate him as having access to non-global private or group cartridges not belonging to him. However, he does have access to these cartridges via other commands such as LI, etc. This is also a problem with CL.

KPR #: 5000034058 Product: RTE-6/VM 92084A 23.40

Keywords: LINK

One-line description:
DC option doesn't work in runstring

Problem:
The don't clone option doesn't work from the runstring.

Cause:
The DC option is not properly implemented - LINK does not handle it right in all cases.

Fix information:

Fixed at A.85.

KPR #: 5000035261 Product: RTE-6/VM 92084A 00.00

Keywords: TF FMP MASKING

One-line description:
TF does not back up private and group cartridges from manager.sys

Problem:
TF does have this problem, however the real problem is within the FMPINITMASK routine and its calls to CRNTOLU and OLDLUINFO. These call DSFSTAT with parameters that restrict manager.sys. The DL command will do the same thing even with the LU in the SST.

Cause:
FC HAD THIS CAPABILITY BUT CURRENTLY TF DOES NOT

KPR #: 5000035907 Product: RTE-6/VM 92084A 23.40

Keywords: CMD

One-line description:
CMD fails unless extra commas are added on the run string.

Problem:
"CMD" program will not run without default parameters.
Unless the complete run string is input (i.e. RU,CMD,KEY,LU,NAMR)
CMD returns error message:
PARAMETER ERROR
LIST LU GIVES ERROR ON WRITE
GIVE VALID LU FOR SECOND PARAMETER
OR DEFAULT TO YOUR TERMINAL.

Fix information:
Fixed at A.85

Signed off 01/15/85 in release 24.40

KPR #: 5000036608 Product: RTE-6/VM 92084A 00.00

Keywords: FMP

One-line description:
FmpCopy fails on buffer lengths greater that 16k

Problem:
FMPCOPY FAILS WHEN THE BUFFER LENGTH IS 16416 WORDS OR MORE. FOR LARGE FILES (1000 BLOCKS OR MORE), ONLY ONE BLOCK IS COPIED WITH A BAD EOF. SMALL FILES USUALLY WORK OK.
ALL COPY OPERATIONS WORK CORRECTLY IF THE BUFFER SIZE IS LESS THAN 16416 WORDS.

Cause:
FmpCopy does the following calculation on the passed buffer size to

convert the number of words into a rounded number of bytes:
((blen-32)/128)*256
If BLEN (the passed buffer length) is >= 16416 (16384+32), then this calculation overflows and a negative number results which causes all kinds of problems.

Temporary solution:
Keep the buffer length under 16416.

KPR #: 5000042093 Product: RTE-6/VM 92084A 00.00

Keywords: CI RTE-6/VM

One-line description:
the DL command when used with the O option, does not show all programs

Problem:
IN CI WHEN THE DL COMMAND IS USED WITH THE 'O' OPTION TO FLAG OPEN FILES AND GIVE THE NAME OF THE PROGRAM THAT HAS THE FILE OPEN, IF MORE THAN ONE PROGRAM HAS THE FILE OPEN, ONLY ONE PROGRAM IS LISTED.
THIS IS TRUE FOR BOTH FMGR AND CI FILES.

Cause:
DL looking at open flags incorrectly.

KPR #: 5000043471 Product: RTE-6/VM 92084A 00.00

Keywords: LINK

One-line description:
Runstring parms get lost when in different orders

Problem:
Changing the order of options in LINK's runstring causes the program to be loaded differently.

Cause:
The documentation says the order is not meaningful when in fact it is.

Fix information:
LINK manual has been corrected at A.85 to explain this.

KPR #: 2200004374 Product: RTE-A 92077A 23.26

Keywords: EMA

One-line description:
$MSEG = 0 is ignored.

Problem:
If $MSEG 0 is specified at the start of a FTN7X program, you should get the maximum number of pages of MSEG available. However, with the B.83 revision of FTN7X, you only get 2 pages. The FTN7X manual says you should get as many pages as are available.

Cause:
This is really a LINK bug.

Fix information:
LINK has been changed so that if a user does not give an MSEG size (and it is an EMA program), the user will be given as much MSEG as is possible. This modification will become available with the A.85 PCO.

KPR #: 2200005553 Product: RTE-A 92077A 23.26

Keywords: VMA

One-line description:
VM ERROR ABORT MESSAGE GARBLED

Problem:
When a program aborts with a vm33, the error message expands vm46
The following is a copy of the error:
PCL01 aborted at address 12106 Reason is VM33 Current segments= 13

A= 53115 B= 41 X= 0 Y= 76000 E= 0 O= 1 WMAP= 6002
Instruction=105240 Z=177777 Q= 77777 CS mode=OF
VM46 = Greater than 255 extents on VM file
Pascal: Program PCL was aborted.

Fix information:
The VM 33 message now prints correctly. The revised code will be made available with the A.85 PCO.

KPR #: 2200006239 Product: RTE-A 92077A 23.26

Keywords: BUILD

One-line description:
BUILD UTILITY GETTING FILE POSITION ERROR

Problem:
Build utility encounters file position error on output file. This error occurs imediately after supply the name of the system file to be used in build process. I have tried using FMGR files, CI files, interactive operation and command files. Error is always the same.

Fix information:
This problem has been corrected. BUILD now calculates file size

correctly. The revised version of the program will become available with the A.85 PCO.

KPR #: 2200006528 Product: RTE-A 92077A 23.26

Keywords: RTAGN

One-line description:
Can't run two generators from one terminal

Problem:
If two copies of rtagn are run on the same terminal, the second will abort because the scratch file that the generator uses is not a unique name. Part number is 92077-16077 rev. 2326

Fix information:
RTAGN now uses FMPOPENSCRATCH to ensure a unique scratch file name. The revised code will become available with the A.85 PCO.

KPR #: 2200007047 Product: RTE-A 92077A 23.01

Keywords: DD.33

One-line description:
CS80 DISC LU GOES DOWN INCORRECTLY BY BAD LINUS UNIT STATUS

Problem:
When inserting the linus tape in the CS80, if diagnostic error take place, the CS80 Disc LU go down at the next access of the CS80.

Temporary solution:
SE WORKAROUND: NOT AVAILABLE.

Fix information:
DD.33 should be modified to repeat read status until the lowest 8 bits of identification error field become all ones. So no units have status pending and the CS80 DISC LU doesn't go down.
This should be fixed at the B.85 PCO cycle.

KPR #: 2200007179 Product: RTE-A 92077A 23.26

Keywords: MUX-8 CHANNEL

One-line description:
I/O request flush problem with modem on mux

Problem:
The modem port is configured to flush requests when a communication error is encountered. That is bit 15 is set on the control 33 call. This is to prevent the port form going down and becoming unusable. If a user calls in and does not log off from his VCT session the interface driver goes into a loop of data communication errors, flushing the buffer. If you look at the system console there will be a continous stream of the messages. This will continue until

all of system available memory is used up.

Temporary solution:
SE WORKAROUND: Make sure users understand problem and exit CI before hanging up. But this will not help if you lose the phone line in the middle of the session.

Fix information:
Fix date unknown.

KPR #: 2200007724 Product: RTE-A 92077A 23.40

Keywords: HP-IB DD.33

One-line description:
Excessively long disc timeout in RTE-A

Problem:
The disc timeout for the CS80 drives is fixed at 2.5 minutes tc allow for certain CTD operation that occur inside the CS80 disc-tape controller. This timeout can be extremely long for CS80 standalone discs, where no tape is connected to the controller.

Cause:
The driver treats timeouts for both CS80 discs and tapes the same.

Fix information:
The fix for this problem involves changing the driver to distinguish between discs and tape operations. This should be implemented by the next software update cycle.

KPR #: 2200008326 Product: RTE-A 92077A 23.26

Keywords: BUILD

One-line description:
BUILD needs SHEMA ptn memory descriptor set up carefully

Problem:
In memory based systems with shareable EMA partitions, programs that are down loaded from other systems using REMAT's LO command can go on top the SHEMA partitions.

Cause:
When build creates the memory descriptor for a sharable EMA partition, it sets word 2 to 100000B to indicate that the partition is free. So, in shareable EMA table entry for that partition, programs are dispatched into that partition which are down loaded with the remote "LO" command.

Temporary solution:
SE WORKAROUND: Yes, set this word to zero. Indicating that it is in use as a shareable EMA partition.

Fix information:
BUILD now allocates shareable EMA partitions correctly. The revised version of BUILD will become available with the A.85 PCO.

KPR #: 2200009050 Product: RTE-A 92077A 23.26

Keywords: BACKING STORE FILE

One-line description:
Backing store file not purged under WD 0

Problem:
When the working directory is 0 (WD = 0) and a scratch CRN has not been specified (SC), the backing store file created for a VMA program is placed on the first FMGR CRN. The BSF namr is a legal filename and the BSF is not purged on completion of the VMA program. The BSF name should be an illegal filename and the BSF should be purged on program completion.

Cause:
This is what's happening - if $SCRN is set, the BSF is put onto that crn with an illegal name (nnnnVM). If $SCRN is not set, the BSF is created with a legal name (VMnnnn.VMA) and is put onto the working directory. The problem is, if the WD is 0, this file lands on the top FMGR crn with a legal name and it won't get purged.

This problem shows up with any program that uses VMA. It is most often seen with BASIC and PASCAL.

Temporary solution:
Set the working directory to something, or set $SCRN at boot-up with the SC command in BOOTEX.

KPR #: 2200009357 Product: RTE-A 92077A 23.40

Keywords: LINK

One-line description:
Link overwrites constants in code space with zeros (CDS only)

Problem:
PROBLEM DESCRIPTION: In CDS programs, LINK overwrites constants in code space with 0's.

Cause:
Link apparently insists on reserving space for links on every code page, even when the page contains only constants. This results in 0's being dropped in the middle of constants. The data space for CDS programs on the 1000 is the critical resource. The problem is helped by moving constants from data space to code space; so this really does need to work.

Fix information:
This problem will be fixed in the version available with the A.85 PCO.

KPR #: 2200009639 Product: RTE-A 92077A 23.26

Keywords: RTAGN

One-line description:
RTAGN REJECT UNBUFFERED REQUEST 'BL:BU...' IN DVT COMMAND

Problem:
RTAGN REJECT UNBUFFER REQUEST 'BL:UN' IN DVT COMMAND
THESE ARE EXAMPLE WE HAVE TRIED AT GENERATION; SEE SYSTEM GEN MANUAL6-15
BL:BU , BL::: -- RTAGN GENERATE BUFFER LIMIT ERROR AND AFTER GEN
THE TERMINAL WAS BUFFERED.
BL:UN:0:0 , BU:UN:100:400 -- AFTER GEN, THE TERMINAL WAS BUFFERED.

Fix information:
RTAGN now processes the BL parameter as documented. The revised version of RTAGN will be released with the A.85 PCO.

KPR #: 2200009746 Product: RTE-A 92077A 23.26

Keywords: LINK

One-line description:
LINK permits heap/stack area to overlay MSEG when relinking

Problem:
PROBLEM DESCRIPTION: When linking and relinking CDS EMA/VMA programs, LINK does misleading and dangerous things. I am assuming a default two page MSEG. I am assuming a minimum heap of 4 (HE,4).
When such a progrm is initially linked, it will permit a stack specification that extends up through 75777B in the data partition. This is "wrong" in that 74000B-75777B is the first page of MSEG. But in fact LINK will silently trim such a stack specification back to a maximum of 73777B. A warning (or stack too large error) should be issued in this case. This is the misleading problem.
The dangerous problem occurs when you reLINK such a program with the LINK "LK" command. LINK will then permit you to extend stack to 75777B. If the stack grows past 73777B it will effectively write into EMA/VMA and the results are unpredictable and potentially dangerous. The LK command should not permit the stack to extend into MSEG. The code which determines the maximum stack value is not accounting for the first MSEG page.
It will let you allocate heap space in the MSEG area as well, which should also be disallowed.

Temporary solution:
Assuming you went to allocate all stack and no heap, set set HE,4 and then set ST,32767. Link will respond with a manimum stack size message. Subtract 1024 from the value given and set ST to the result. To verify a safe stack, use LO, the partition size for data less the working set size should be 31 (or less). The above all assumes a 2 page MSEG.

Fix information:
This problem will be fixed in the version available with the A.85 PCO.

KPR #: 2200010314 Product: RTE-A 92077A 23.01

Keywords: ID.37

One-line description:
ID.37 serial poll timeouts can cause 12009A HP-IB hung up

Problem:
After a serial poll timeout, if a write request is 200B words long, only 128 words will be transmitted.

Cause:
There is a coding error in ID.37 that prevents the serial poll disable byte from being issued in the ABORX routine.

Fix information:
Should be fixed in one to two PCO cycles.

KPR #: 2200016626 Product: RTE-A 92077A 24.01

Keywords: RTE-A RTAGN

One-line description:
Genning 9133XV yields disc IO failed

Problem:
1. The 2401 primary does not have LU's for the 9133XV. 9133A/B are gen'ed in. If the user tries to follow the instructions in the primary installation manual, the installation will fail. The user must generate a system using the 2401 software and specify M9134X for the model number of the 9133xv. The user can then install this software on the 9133xv.
2. 2401 BOOTEX is NOT able to boot from a 9133xv. You will get the error "Unable to mount this disc. You may need to run instal". However, the 2340 BOOTEX does work.

Temporary solution:
The 2401 primaries do NOT support the 9133XV. Generate a system using the 2401 software and specify M9134X as the model number for the 9133XV. You can replace the four LUs in the primary used for model 9133L.
Also, you MUST use the 2340 revision of BOOTEX when you install BOOTEX on the 9133XV. The 2401 revision does not work with the 9133XV.

Fix information:
This will be fixed at A.85.

KPR #: 2200016972 Product: RTE-A 92077A 24.01

Keywords: RTE-A D.RTR

One-line description:
D.RTR and CRETS -33 error

Problem:
D.RTR doesn't seem to handle automatic purging of scratch files correctly. This is demonstrated by the following sequence:
1. Create a file with CRETS with maximum size (-1).

2. Close the file.
3. Try to create a new file with CREAT or CRETS.
   - this gives a -33 error.

If you look at the scratch crn, the first file created is gone. If you try the second CREAT call again, it will create the file okay.

Cause:
D.RTR is supposed to purge scratch files when it sees them on a crn and they're closed. In the above case, you'd expect D.RTR to find the old scratch file as it's trying to create the new file. It should then purge the old file right away, and then it would have room for the new file. The problem is that when D.RTR sees a 'dead' scratch file, it makes itself a note to purge it later, and then it continues with the current process, in this case, creating a file. Once the process is done (in this case, the -33 error is returned), then D.RTR goes back and purges the old file. If the CREAT is tried again now, it will succeed because the old scratch file has been purged.

This problem shows up in programs that use VMA backing store files, such as BASIC and PASCAL. The compiler may abort with a VM33 error, then, when it is run again immediately, it runs successfully.

Temporary solution:
Try to create the file a second time.

Fix information:
Fixed in A.85 revision.

KPR #: 2200018440 Product: RTE-A 92077A 23.40

Keywords: CDS

One-line description:
Can run more shared programs than are genned into system.

Problem:
Too many shared programs would be allowed to run in a system under certain circumstances. When some of these shared programs would terminate the OS would get confused.

Cause:
IDRPL was accidentally modifying the value of a flag used to determine if there was room in the shared program table for another program. It would then think there was room when there was not. IDRPL would then write over needed information concerning another shared program.

Fix information:
IDRPL code has been changed so that this flag does not get mistakenly modified. For revision 2440.

KPR #: 2200028886 Product: RTE-A 92077A

Keywords: DD.33

One-line description:
DD.33 does not set the severe status bit for not ready

Problem:
DD.33 doesn't set the severe status bit for not ready

Fix information:
This should be fixed within one or two PCO cycles

KPR #: 5000002907 Product: RTE-A 92077A 23.26

Keywords: LINK

One-line description:
LINK cannot find /SYSTEM/SNAP.SNP

Problem:
LINK cannot find /SYSTEM/SNAP.SNP
According to system installation and programmers and operators documentation, the SNAP file should be located in directory /SYSTEM and be called SNAP.SNP. If a system is structured as such, LINK will not find the referenced file; it must be declared as SNAP on a FMGR cartridge.

Fix information:
This problem will be fixed in the version to become available at A.85.

KPR #: 5000010942 Product: RTE-A 92077A 23.26

Keywords: RTAGN

One-line description:
RTE-A generation without common can halt.

Problem:
The RTAGN program will accept an answer file that has no COM statement and will generate a system with no errors. However when that system is running any problem such as a down device that requires an error message will cause the system to crash with no response or halt in VCP mode. The problem seems to be that the rel,%msgs command is skipped and a system with no messages area in map set 1 is produced. The generator should flag an error.

Fix information:
RTAGN will now print an error message if the COM statement is missing. Revised code will be available with the A.85 PCO.

KPR #: 5000012260 Product: RTE-A 92077A 00.00

One-line description:
ISSW should be in the RTE-A relocatable library

Problem:
The subroutines ISSR and ISSW for accessing the switch register are not included with RTE-A.

Fix information:
Working versions of these routines will be shipped with the A.85 PCO.

KPR #: 5000013326 Product: RTE-A 92077A 00.00

Keywords: RTAGN

One-line description:
RTAGN can get "Illegal File Position" error while generating a large sys

Problem:
RTAGN REV.2326 GETS "ILLEGAL FILE POSITION" ERRORS WHILE GENERATING A LARGE SYSTEM (32 PAGES OF SYSTEM+31 PAGES OF SAM+3 PAGES OF SYSTEM MESSAGES). 528 BLOCKS ARE REQUIRED. THE GENERATOR WILL NOT CREATE AN OUTPUT FILE LARGER THAN 512 BLOCKS.

Fix information:
This problem will be corrected in a future PCO.

KPR #: 5000014159 Product: RTE-A 92077A 00.00

Keywords: EMA

One-line description:
EM82 errors when two programs sharing EMA access the last page

Problem:
If two programs are accessing sharable EMA in an RTE-A system, one of the programs may abort with an EM-82 error on an access to the last page of EMA. This error may occur randomly and the frequency of the error may be linked to system activity (CPU usage).

Fix information:
The memory manager now allocates shareable EMA correctly. The corrected version will become available with the A.85 PCO.

KPR #: 5000014241 Product: RTE-A 92077A 00.00

Keywords: MUX-8 CHANNEL

One-line description:
Terminal hangs on control status request (Control 25B)

Problem:
WHEN A EXEC CALL TO GET TERMINAL STATUS IS SENT TO A B-MUX AND THERE IS OTHER ACTIVITY ON ANOTHER PORT SUCH AS WH,AL THE CALL WILL NOT COMPLETE. THIS CALL IS USED IN THE SCREEN EDIT FOR EXAMPLE. BELOW IS A TEST PROGRAM THAT MAKES THIS CALL AND ALSO DOES THE SAME THING WITH A ESC^. THE PROGRAM WILL ALWAYS FAIL ON THE EXEC 3,2501B THE SOON AS YOU DO A WH,AL ON ANY OTHER TERMINAL ON THE MUX. THIS HAPPENS ON FIRMWARE 5180-1970 AND ON THE NEW EXPERMENTIAL FIRMWARE FROM ROSEVILLE.

```
PROGRAM TEST

    INTEGER BUFF(5)
10  CALL EXEC(3.2501B)
    CALL EXEC(2,1,2HESC^,-2)      'ESC=ESCAPE'
    CALL EXEC(1,1,BUFF,-10)
    CALL EXEC (2,1,BUFF,-10)
    GOTO 10
```



```
    END
```

Fix information:
This bug has been fixed and will be released next software release. DLM

KPR #: 5000016709 Product: RTE-A 92077A 00.00

Keywords: RTAGN

One-line description:
RTAGN doesn't handle LU's > 99 very well

Problem:
LU's greater than 99 are printed incorrectly in RTAGN's list files. LU 100 is printed as ";0", LU 101 is ";1", etc. The resulting system does work properly, only the list file is incorrect.

Fix information:
IFT and DVT numbers will be printed correctly in the revised code which will be released with the A.85 PCO.

KPR #: 5000016733 Product: RTE-A 92077A 00.00

Keywords: RTE-A

One-line description:
More documentation on tuning RTE-A generations is needed.

Problem:
RTAGN needs to print more information so that it will be easier to squeeze in tight systems.

Fix information:
The RTE-A generator, RTAGN, will now print memory bounds information during the memory allocation phase of operation. This revised version of the generator will become available with the A.85 PCO.

KPR #: 5000025320 Product: RTE-A 92077A 23.26

Keywords: TIME SCHEDULE

One-line description:
'Often' parameter cannot be greater than 2047 (4095 is documented)

Problem:
When a program is time scheduled with an EXEC 12 request, the often parameter is a maximum of 2047 (3777B), not 4095(7777B) as documented. WH reports the resolution correctly, but the program does not execute at the proper interval.

Fix information:
When the program is put in the time list, it looks like we miss the upper bit.

KPR #: 2200006080 Product: RTE-A MANUALS 92077 MANUAL 23.26

Keywords: HP-IB

One-line description:
LINK 'SU' COMMAND ALWARYS NEEDED FOR HPIB SRQ PROGRAM SCHEDULING

Problem:
On RTE-A/VC+ system, HP-IB SRQ program scheduling 'CN LU 20B program' doesn't work properly if we don't use 'SU' command in LINK.
There is no documentation about it in any manual.

Cause:
This can also be accomplished by RP'ing the program in the Welcome file. This also needs to be documented.
LINK 'SU' command always needed for SRQ program on RTE-A/VC+.

Fix information:
The ID.37 section of the RTE-A Driver Reference Manual was corrected in the January 1985 update.

KPR #: 2200009951 Product: RTE-A MANUALS 92077 MANUAL 23.26

Keywords: DRIVERS

One-line description:
Documentation errors in priviledged driver example

Problem:
All of the Driver Designer's guides of XL, A.1, and RTE-A describe incorrect information about priviledge driver example listings.

Cause:
Driver Designer's Guide, part number 92077-90006 and 92077-90013, Revision 2326

Fix information:
Errors in the Privileged Driver example have been corrected in the January 1985 revision of the RTE-A Driver Designer's manual

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KPR #: 2200014126 Product: RTE-A MANUALS 92077 MANUAL 23.26

One-line description:
Device type in $DVT 6 starts on bit 8 not bit 9

Problem:
$DVT6 layout on page K-5 incorrect.
Module name: RTE-A Quick Ref Guide, part no. 92077-90020
Revision: June 1963 Update 1

Cause:
Device type should begin on field 8 instead of field 9.

Fix information:
Diagram corrected in the January 1985 update.

KPR #: 5000010579 Product: RTE-A/VC+ 92078A 00.00

Keywords: RTE-A/VC+

One-line description:
Program abort messages are not sent to log file in RTE-A/VC+

Problem:
PROGRAM-ABORT MESSAGES ARE NOT SENT TO THE LOG FILE IF ERROR LOGGING IS TURNED ON IN THE VC+ SPOOLING SYSTEM. PROGRAM ABORT MESSAGES APPEAR AT THE SESSION TERMINAL WHERE THE PROGRAM WAS SCHEDULED, OR AT THE SYSTEM CONSOLE IF THE PROGRAM WAS DTACHED FROM SESSION. WHILE LOG ON'S AND LOG OFF'S APPEAR IN THE LOG FILE, AND LU'S GOING DOWN APPEAR IN THE LOG FILE, PROGRAM ABORT MESSAGES NEVER GET THERE. PAGE 2-19 IN THE RTE-A USERS MANUAL STATES, "After error logging has been initiated, all subsequent serious messages (ABORT, I/O error, etc.) and all log-on/log-off messages will be entered in the error log file."

KPR #: 5000015552 Product: RTE-A/VC+ 92078A 00.00

Keywords: SWAPPING

One-line description:
Swap file must be greater than two blocks

Problem:
THE CARTRIDGE LIST FOR BOTH RTE-A OR RTE-A/VC+ SYSTEMS IS MAINTAINED IN THE FIRST TWO BLOCKS OF THE SWAP FILE. WHEN USERS MOUNT OR DISMOUNT ANY CARTRIDGES IN THE SYSTEM THIS LIST IS UPDATED -- SYSTEM ALWAYS UPDATES TWO BLOCKS AND DOES NOT CHECK THE SIZE OF THE SWAP FILE. IF THE SWAP FILE IS NOT AT LEAST TWO BLOCKS LONG THE SECTOR FOLLOWING THE SWAP FILE WILL BE OVERWRITEN -- ANY FILE RESIDING THERE WILL BE CORRUPTED. THIS MAY MANIFEST ITSELF AS THE INABILITY TO REBOOT THE SYSTEM IF THE SYSTEM FILE IS THE ONE CORRUPTED, OTHER SYMPTOMS MIGHT BE DM OR MP OR EVEN UI ERRORS IN PROGRAMS THAT ONCE WORKED.

Fix information:
BOOTEX now checks for size >2 blocks. It will print an error, if the size is too small (<2). Revised code available with A.85 PCO.

HEWLETT PACKARD

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Problem Description: (include environment, symptoms, what you were trying to do, what went wrong, and any other information that might be helpful. Also include hardware configuration and date codes when applicable.)

Supportive documentation included with report. (Media must be labeled.)

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