END LINE

SERIES 80 BUG LIST

Most computer manufacturers issue what are commonly known as "BUG REPORTS". They don't like to call descriptions of user reported bugs, anomalies, unexpected responses, etc., BUG reports because of the negative connotation. From the user viewpoint these reports are our "lifes blood", yet the manufacturer is usually a year behind the real world. Hewlett-Packard Series 80 machines are the bottom end "real computers" in the computer world, and they call their "BUG Reports" Software Status Bulletins. The Bulletin that follows is dated March, 1983 with a document number 5953-7200 (E0383). Space does not permit the complete report in this issue. Part 1 covers:

Mainframes.	HP-83A, HP-85A, HP-86A HP-87A, and HP-87XM.
Enhancement ROMS	HP-85 Mass Storage, Plotter/ Printer, Input/Output, Assembler, Matrix, Adv. Prog., Prog. Dev.,. HP-87 Assembler, Adv. Prog., Plotter, Input/Output, Matrix

Part II — Next issue will cover:

PAC's HP-85
Standard, General Statistics, AC Circuit Analysis, Waveform Analysis, Basic S/data Manip., Regression Analysis, VisiCalc Plus, Surveying, Text Editing, Data Communications
HP-87
AC Circuit Analysis, Basic S/data Manip., Regression Analysis, VisiCalc, Surveying, Word/80, File/80 VisiCalc Plus

The section on interface cards may not be available for the next issue. No information on which cards are covered by this bulletin was available at press time.

It is recommended that all users read this bulletin. You may find a few mysteries explained! Any questions regarding the products covered by this bulletin should be directed to your local HP Sales Office or the Portable Computer Division at, 1010 NE Circle Blvd., Corvallis, OR 97330, USA.

SERIES 80 SOFTWARE STATUS BULLETIN

PREFACE

Purpose — The status bulletin documents the known and reproducible problems for the Series 80 Computer Prodcuts. The intent of this document is to help increase productivity by minimizing system down time due to software problems. This publication can also serve as a guide to potential problem areas in any new applications that you may wish to develop on your system. Enhancements requests, non-reproducible problems, or user misunderstandings will not be found in this document.

How to Use This Document — The information contained in this bulletin is derived from user submitted problems and those problems found by Hewlett-Packard after the product was shipped. The bulletin is divided into four major sections that correspond to problems reported for the following products:

1. Mainframes
2. Enhancement ROMs
3. Software Pacs
4. Interface Cards

Each section is broken down into two parts. The first part lists for each product: the Known Problem Report Number (KPR#), and a one-line description of the problem. Any KPR# followed by an asterisk indicates that it is new or has changed in this report. The second part gives an expanded definition of the problem, the temporary work-around solution and permanent fix if one is available for each known problem report number. Thus, by quickly scanning the one-line descriptions in part one you can find the KPR# of the problem you are interested in, and then turn to that KPR# in part two for more detailed information.

M A I N F R A M E S

HP-83A REVID: A

KPR#	Problem
18	'COM MISMATCH' error in chaining programs
44	First error message after power-up is incorrect.
74	Nesting 6 deep of trig functions in calc. mode not allowed
77	Single line functions cause erroneous line numbers in errors or traces
78	Invalid 'FOR' STMT with non-matching variable in 'NEXT' STMT hangs sys
80	Single line string functions cause blank line display
81	String variables dimensioned w/o parameter list will list improperly
84	Binary programs with token class >56 will not be permitted to allocate
86	The STMT 'ON KBD' in prog dev ROM & 'ENABLE KBD' in I/O ROM may lose key
100	Single element arrays in 'OPTION base 1' lock up system
133	'READ' statements in multi-line functions may cause error
199	Character following last character in string variable is undefined

HP-85A REVID: A

KPR#	Problem
6	'BPLOT' may cause overflow of characters onto 'ALPHA' screen
21	Prgm started by Calc. mode 'CHAIN' STMT cannot be paused and continued
23	Calculator mode 'FOR-NEXT' STMT expired on entry causes system hang
26	Improper interpretation of images of form "D.DD..." with negative number
27	'RESET' doesn't turn off the beeper
28	Files with type 3 security, when re-stored, lose security
29	Binary programs with token class >56 will not be permitted to allocate
30	Relational expressions will not be accepted with in-line comments
31	Declaration STMTS without parameter lists will be accepted by system
32	Using multi-line function references as input response hangs sys
33	Improper rounding of short var. between .999995 and .999999999999 (+&-)
34	'VAL' function errors cannot be trapped by 'ON ERROR'
35	External ROM keywords used in response to AN 'Input' STMT hangs system
36	'ERROM' function failure in calculator mode
38	No error generated when creating oversize tape files
39	Write protected tape access causes system malfunction
40	'INPUT' statement misinterprets input stream
41	Tracing common variables causes system lockup
42	Incorrect evaluation of strings
45	Function call will list incorrectly
47	Abstracting partial strings greater than string length gives no error
49	Commenting multiline functions causes listing errors
60	The STMT'ON KBD' in prog. dev ROM & 'ENABLE KBD' in I/O ROM may lose key
65	Storing files to tape with concatenated filenames causes memory overflow
75	Nesting 6 deep of trig functions in calc. mode not allowed
76	Single line functions causeing erroneous line numbers in errors or traces
82	String variables dimensioned W/O parameter list will list improperly
132	'READ' statements in multi-line functions may cause error
185	Last string in 'INPUT' statement doesn't have to be satisfied
190	The last character in string variable is undefined
204	Input expression errors are not caught by 'ON ERROR'

HP-85A REVID: B

KPR#	Problem
20	'RENAME' statement cannot be followed by '@' in calculator mode
24	Nesting 6 deep of trig functions in calc. mode not allowed
25	Single line functions causing erroneous line numbers in errors or traces
46	Commented 'NEXT' statements generate invalid error message
48	Parenthetical unary operations list improperly
50	Invalid 'FOR' STMT with non-matching variable in 'NEXT' STMT hangs sys
51	Paused program stored to tape causes initializing of all variables.

52 Single line string functions cause blank line display

55 String variables dimensioned W/O parameter list will list improperly

59 Null 'REAL' data reads into short variables as "?.?" from tape

72 Binary programs with token class >56 will not be permitted to allocate

83 'COM MISMATCH' error in "chaining" programs

85 The STMT'ON KBD' in program dev ROM & 'ENABLE KBD' in I/O ROM may lose keys

98 Reading from file larger than array in option base 1 alters program

134 'READ' statements in multi-line functions may cause error

171 String manipulations on string arrays crash system

172 Last string in 'INPUT' statement doesn't have to be satisfied

200 Character following last character in string variable is undefined

205 Input expression errors are not caught by 'ON ERROR'

HP-86A REVID: A

KPR#	Problem
180	'TRACE ALL' locks up I/O card following enter statement
206	Input expression errors are not caught by 'ON ERROR'
208	Source files >64k show 257 byte/rec in 'CAT'
210	Null prints to external printer also send one blank character
214	Image statements like n(/) hang machine
216	Executing 'GHAPHALL' redefines limits of external plotter
* 218	Concatenated 'ASSIGN' statements fail in calculator mode
220	'READ' statements in multi-line functions may cause error
222	Illegal MSUS ignored in 'INITIALIZE' command
224	Volume label search causes EOL count to be set to zero
226	Assigning 'INF' to 'SHORT' variable gives 'UNDERFLOW'
228	Improper rounding of very large 'REAL' values to 'SHORT' variables
232	'FOR' loop causes 'SYSTEM ERROR 15' or infinite loop
235	Print#/read# buffers become unuseable if assigned to write protect disc
224*	Listing of 'IF-THEN-READ-ELSE-LINE LABEL' sequence is incorrect
271*	Pressing reset during chain leaves garbage program

HP-87A REVID: A

KPR#	Problem
110	Source files >64k show 257 byte/rec in 'CAT'
113	Null prints to external printer also send one blank character
119	Translating large HP-84/85 programs may cause machine lockup
126	Image statements like 'n(/)' hang machine
127	Executing 'GRAPHALL' redefines limits of external plotter
129	Concatenated 'ASSIGN' statements fail in calculator mode
131	'READ' statements in multi-line functions may cause error
144	Illegal MSUS ignored in 'INITIALIZE' command
149	Volume label search causes EOL count to be set to zero
151	Assigning 'INF' to "SHORT' variable gives 'UNDERFLOW'
158	Improper rounding of very large 'REAL' values to 'SHORT' variables
168	Print#/read# buffers become unuseable if assigned to write protect disc
169	'FOR' loop causes a 'SYSTEM ERROR 15' or infinite loop.
178	'TRACE ALL' locks up I/O card following enter statement.
207	Input expression errors are not caught by 'ON ERROR'.
245*	Listing of 'IF-THEN-READ-ELSE-LINE LABEL' sequence is incorrect.
247*	ROM class >56 doesn't get de-allocated.

HP-87XM REVID: A

KPR#	Problem
179	'TRACE ALL' locks up I/O card following enter statement.
188	Print#/read# buffers become unuseable if assigned to write protect disc.
209	Source files >64k show 257 byte/rec in 'CAT'
211	Null printes to external printer also send one blank character
215	Image statements like 'n(/)' hang machine
217	Executing 'GRAPHALL' redefines limits of external plotter
219	Concatenated 'ASSIGN' statements fail in calculator mode
221	'READ' statements in multi-line functions may cause error

HP-87XM REVID: A

KPR#	Problem
223	Illegal MSUS ignored in 'INITIALIZE' command
225	Volume label search causes EOL count to be set to zero
227	Assigning 'INF' to 'SHORT' variable gives 'UNDERFLOW'
229	Improper rounding of very large 'REAL' values to 'SHORT' variables
233	'FOR' loop causes 'SYSTEM ERROR 15' or infinite loop
246*	Listing of 'IF-THEN-READ-ELSE-LINE LABEL' sequence is incorrect
269*	ROM class >56 doesn't get de-allocated
272*	Pressing reset during chain leaves garbage program

KPR# 17 HP-85A REVID: A

Problem — 'BPLOT' can write non-sensical information to the alpha screen if the characters-per-row factor (parameter 2) is large and the string to be BPLOTED is long.

Work Around Solution — Be careful when specifying parameter 2 of the 'BPLOT' command. 32 is the maximum number of characters BPLOT can plot in one line of information.

Permanent Fix — Fixed in Revision B

KPR# 18 HP-83A REVID: A

Problem — When 'CHAINING' programs that have common variables you will get an 'ERROR 32: COM MISMATCH' if anything other than a numeric array definition is encountered first in the 'COM' statement and there is no 'OPTION BASE' statement preceding the 'COM' statement.

Work Around Solution — Put an 'OPTION BASE' statement in your program or ensure that a numeric array definition is the first item in your 'COM' statement.

Permanent Fix — No fix is planned at this time.

KPR# 20 HP-85A REVID: B

Problem — Operating system will not accept a calculator mode statement with the 'RENAME' statement followed by the '@' (at sign) and any other statement or command.

Work Around Solution — Do not use 'RENAME' in multistatement command. Note: This problem will not occur if there is a mass storage ROM in the system as the mass storage ROM also defines the 'RENAME' statement and permits statements and commands to follow using the '@' (at sign) syntax.

Permanent Fix — No fix is planned at this time.

KPR#21 HP-85A REVID: A

Problem — If a program is started via a calculator mode chain and later paused in a 'FOR/NEXT' loop, when it is continued the 'NEXT' statement will give an 'ERROR 47-NO MATCHING' for. Also see KPR# 51.

Work Around Solution — Avoid chaining programs when in calculator mode

Permanent Fix — No fix is planned at this time

KPR# 23 HP-85A REVID: A

Problem — The calculator mode statement 'FOR I=1 to 0' will cause the system to hang requiring reset.

Work Around Solution — Ensure you have a valid for/next statement in calculator mode

Permanent Fix — Fixed in Reivsion B

KPR# 24 HP-85A REVID: B

Problem — While in calculator mode the statement (sin(sin(sin

(sin(sin(.3))))) will give an 'ERROR 88: BAD STMT'. Any of the trig functions will do so. However A = (same as above) will work correctly.

Work Around Solution – Always assign statements of this nature to a variable in calculator mode.

Permanent Fix – No fix is planned at this time

KPR# 25 HP-85A REVID: B

Problem – If a single line function definition starts in the middle of a multistatement line it will generate erroneous line numbers if it causes an error or is traced, e.g.,

```
10 X=999999 @ def FNA = 2
20 DISP FNA/X
30 END

TRACEALL [ENDLINE] [RUN]
TRACE LINE 10 X=999999
TRACE LINE 10 to 20
.000002000002
TRACE LINE 899 to 30

10 X=99999 @ DEF FNA = 2/0
20 DISP FNA/X
30 END

[RUN]

    Warning 8 on line 899: /zero
    1.000001E494
```

Work Around Solution – Do not use 'DEF FN' in a multistatement line.

Permanent Fix – No fix is planned at this time.

KPR# 26 HP-85A REVID: A

Problem – Image statements of the form image "D.DD..." will not print the sign on a negative number, even if the number has no 1's digit, e.g., disp using "D.DD"; -.01 gives .01 with no warning message

Work Around Solution – Always use the M or S image specifier when working with numeric quantities less than zero.

Permanent Fix – Fixed in Revision B

KPR# 27 HP-85A REVID: A

Problem – It is possible to hit the reset key during a standard "BEEP" (i.e., with no parameters) in an executing program and have the program halt but have the beep continue.

Work Around Solution – With the program paused by hitting the reset key, the continuing beep can be stopped by executing a calculator mode beep (i.e., type beep <end line>).

Permanent Fix – Fixed in Revision B

KPR# 28 HP-85A REVID: A

Problem – If a file with security type 3 is re-stored and goes into a different space it is no longer secured type 3, i.e., the file name will then appear in the catalog.

Work Around Solution – Resecure file after storage to preserve security.

Permanent Fix – Fixed in Revision B.

KPR# 29 HP-85A REVID: A

Problem – This problem arises only when using an assembler ROM to write binary programs. The allocator does not give binary programs a chance to allocate tokens with a class greater than 56. During allocation and deallocation there is no call made to the initialization routines in binary programs.

Work Around Solution – Do not write binary programs with tokens having class greater than 56.

Permanent Fix – No fix is planned at this time.

KPR# 30 HP-85A REVID: A

Problem – Some expressions that contain relational operators (<,<=,>,>=,=,<>,NOT, AND, OR) will not be accepted by the system if they have in-line comments, e.g.,

```
10 A=B or C! Test if non-zero
will hang up the system
```

Work Around Solution – Avoid using inline comments on those lines that have relational operators in an expression.

Permanent Fix – Fixed in Revision B.

KPR# 31 HP-85A REVID: A

Problem – The delcarations 'INTEGER,' 'SHORT,' and 'REAL' can be typed in without any parameter list and will be ignored by the system.

Work Around Solution – This has no effect on program operation

Permanent Fix – Fixed in Revision B

KPR# 32 HP-85A REVID: A

Problem – Input responses that reference a multi-line function may generate nonsensical results, e.g.,

```
10  DEF FNA
20  FNA=PI
30  FN END
40  INPUT A
50  DISP A
60  END
(RUN)
?FNA
```

will generate incorrect results without an error message.

Work Around Solution – Avoid using references to multi line functions as response to inputs.

Permanent Fix – Fixed in Revision B.

KPR# 33 HP-85A REVID: A

Problem – If a real number in the range .999995 and .999999999999 is assigned to a short variable, it will be improperly rounded to .01. The same range in negative numbers is rounded to -.01.

Work Around Solution – Whenever there is a possibility of obtaining a value in the above ranges for a short variable, use a real variable instead. Or, rounding can be done on all real variables before assignment, i.e.,

```
A=IP((A*10^5)+.5/10^5
```

Permanent Fix – Fixed in Revision B

KPR# 34 HP-85A REVID: A

Problem – If the 'VAL' function (function to convert a string of digits to a numeric quantity) generates an error, it cannot be trapped with an 'ON ERROR' trap. It will simply generate a warning message and either continue running or halt the program depending on the current 'DEFAULT' specification.

Work Around Solution – No work-around.

Permanent Fix – Fixed in Revision B

KPR# 35 HP-85A REVID: A

Problem – If the response to a numeric input is a legal BASIC statement that has an external ROM reference (such as the plotter/printer ROM statement 'PRINT') the machine will hang up.

Work Around Solution – Avoid this sort of response to input statements.

Permanent Fix – Fixed in Revision B.

KPR# 36 HP-85A REVID: A

Problem – The 'ERROM' function will not work in calculator mode if only ERROM [ENDLINE] is typed.

Work Around Solution – When using the 'ERROM' function in calculator mode, type DISP ERROM [ENDLINE].

Permanent Fix – Fixed in Revision B.

KPR # 38 HP-85A REVID: A

Problem – No error is generated when attempting to create data files larger than the total tape size.

Work Around Solution – Ensure file size is less than tape size (207 k bytes)

Permanent Fix – Fixed in Revision B.

KPR# 39 HP-85A REVID: A

Problem – An 'ASSIGN' statement followed by 'PRINT#' and another 'ASSIGN' statement, when the tape is write protected, will cause the CRT to remain turned off and the tape light to remain turned on until power is turned off.

Work Around Solution – Ensure tapes are not write protected when attempting to write to tape.

Permanent Fix – Fixed in Revision B

KPR# 40 HP-85A REVID: A

Problem – In an input statement, the system treats the characters "N$" (where N is any alphabetical character) as a string variable rather than simply as two ascii characters.

Work Around Solution – Avoid input whose first two characters are 'X$' where 'X' is any alphabetical character.

Permanent Fix – Fixed in Revision B

KPR# 41 HP-85A REVID: A

Problem — Tracing common variables will cause the system to lock up.

Work Around Solution — Avoid using 'TRACE VAR' with variables in common.

Permanent Fix — Fixed in Revision B.

KPR# 42 HP-85A REVID: A

Problem — Logical evaluation of strings e.g., ["CHESTER"< "DAVIS"), is based on string length rather than character value. This is incompatible with both the ANSI standard and other desktop computers.

Work Around Solution — There are several ways to prevent ill effects from this. The easiest is to use some sort of character (say @) at the end of each string, e.g.,

```
10  A$ [100]="@"
20  B$ [100]="@"
30  IF A$ > B$ then ...
```

this will insure correct comparison

Permanent Fix — Fixed in Revision B

KPR#44 HP-83A REVID: A

Problem — First error message after power on is incorrect

Work Around Solution — Deliberately generate an error and ignore the results.

Permanent Fix — No fix is planned at this time.

KPR# 45 HP-85A REVID: A

Problem — Calls to single line functions will not list properly when used in conjunction with some operators.

Work Around Solution — Don't use function calls with operators; assign the function value to a variable instead.

Permanent Fix — No fix is planned at this time.

KPR# 46 HP-85A REVID: B

Problem — A 'NO MATCHING FOR' error will be generated if the loop count is expired upon entry (e.g., for X = 1 to 1) and the line containing the 'NEXT' statement is commented.

Work Around Solution — Do not comment lines with 'NEXT' statements in them.

Permanent Fix — No fix is planned at this time.

KPR# 47 HP-85A REVID: A

Problem — Asking for a character one position beyond the length of a string variable does not generate an error.

Work Around Solution — Exercise caution when abstracting partial strings.

Permanent Fix — No fix is planned at this time.

KPR# 48 HP-85A REVID: B

Problem — Some combinations of parentheses and unary operators will not list properly — the system will "drop" some parentheses which were in the original expression when the expression is listed. The system will not then accept the statements as listed as being valid.

Work Around Solution — When editing lines involving unary operators and parentheses, ensure that all necessary parentheses are present in the expression before pressing endline.

Permanent Fix — No fix is planned at this time.

KPR# 49 HP-85A REVID: A

Problem — Putting a comment on the first line of a multiline function causes an equals sign to be inserted between the function and beginning of the comment when the function is listed.

Work Around Solution — Leave first lines of multiline functions uncommented.

Permanent Fix — Fixed in Revision B.

KPR# 50 HP-85A REVID: B

Problem — If a program contains an invalid 'FOR' statement (i.e., for I=1 to 0) and the 'NEXT' statement associated with it does not agree in its variable (i.e., for I=... and next J) the computer will "hang" and will have to be reset.

Work Around Solution — Be careful when specifying the 'NEXT' statement. It must agree in variable with the 'FOR' statement.

Permanent Fix — No fix is planned at this time.

KPR# 51 HP-85A REVID: B

Problem — If a running program is paused, either from a program statement, or from the keyboard, and then the current program is stored to tape, all of the program variables are reset to null, but you can still continue from the current position.

Work Around Solution — Always store programs to tape either before the program is run or after it has completed running.

Permanent Fix — No fix is planned at this time.

KPR# 52 HP-85A REVID: B

Problem — Single line string functions which are composed of a system string function whose parameter is another user-defined function reference will always display a blank line, e.g.,

```
10  DEF FNA$ = "abcde"
20  DEF FNB$ = UPC$(FNA$)
30  DISP FNB$
40  END
```

This program will display a blank line. This problem will occur whether the string function references another string function or a numeric expression as below.

```
10  DEF FNA=100
20  DEF FNB$=CHR$(FNA)
30  DISP FNB$
40  END
```

This also displays a blank line.

Work Around Solution — Make functions of this type multi-line. This alleviates the problem.

Permanent Fix — No fix is planned at this time.

KPR# 55 HP-85A REVID: B

Problem — It is possible to dimension string variables without a length parameter, e.g., the statement DIM B$[] is accepted by the computer and B$ is dimensioned to 138 characters. Will also appear in listings as DIM [B$] which is not re-enterable.

Work Around Solution — Avoid this type of dimension statement, ie., always include a length parameter.

Permanent Fix — No fix is planned at this time.

KPR# 59 HP-85A REVID: B

Problem — When null data is stored onto a tape and then read back into a short variable, it is not detected as null, but becomes 7.7. This also occurs when integers are read into.

Work Around Solution — Always take care to read information into the proper variable type.

Permanent Fix — No fix is planned at this time.

KPR# 60 HP-85A REVID: A

Problem — The 'ON KBD' statement of the program development ROM and the 'ENABLE KBD' statement of the input/output ROM will each occasionally malfunction (not behave as expected) when the system is doing array manipulations. Symptoms are that keys that should have been masked out and not respond cause the program to pause or keys that should be intercepted by the basic program are missed (i.e., not seen).

Work Around Solution — Do not have the 'ON KBD' statement active while processing arrays.

Permanent Fix — No fix is planned at this time.

KPR# 65 HP-85A REVID: A

Problem — If you store a file to tape with a concatenated filename (i.e., store "AB" & "CD") you will make the file not accessible. Loading the file and attempting to list, modify, or run it will result in an error 19: memory overflow.

Work Around Solution — Avoid using concatenated file names.

Permanent Fix — Fixed in Revision B.

KPR# 72 HP-85A REVID: B

Problem — The allocator does not give binary programs a chance to allocate tokens with a class greater than 56. During allocation and de-allocation there is no call made to the initialization in binary programs.

Work Around Solution —No text.

Permanent Fix — No fix is planned at this time.

KPR# 74 HP-83A REVID: A

Problem — See KPR#24

Work Around Solution — See KPR #24

Permanent Fix — No fix is planned at this time.

KPR# 75 HP-85A REVID: A

Problem – See KPR #24

Work Around Solution – See KPR #24

Permanent Fix – No fix is planned at this time.

KPR# 76 HP-85A REVID: A

Problem – See KPR #25

Work Around Solution – See KPR #25

Permanent Fix – See KPR #25

KPR# 77 HP-84A REVID: A

Problem – See KPR #25

Work Around Solution – See KPR #25

Permanent Fix – See KPR #25

KPR# 78 HP-84A REVID: A

Problem – See KPR #50

Work Around Solution – See KPR #50

Permanent Fix – See KPR #50

KPR# 80 HP-83A REVID: A

Problem – See KPR #52

Work Around Solution – See KPR #52

Permanent Fix – See KPR #52

KPR #81 HP-83A REVID: A

Problem – See KPR #55

Work Around Solution – See KPR #55

Permanent Fix – See KPR #55

KPR#82 HP-85A REVID: A

Problem – See KPR #55

Work Around Solution – See KPR #55

Permanent Fix – See KPR #55

KPR #83 HP-85A REVID: B

Problem – See KPR #18

Work Around Solution – See KPR #18

Permanent Fix – See KPR #18

KPR #84 HP-83A REVID: A

Problem – See KPR #29

Work Around Solution – See KPR #29

Permanent Fix – See KPR #29

KPR #85 HP-85A REVID: B

Problem – See KPR #60

Work Around Solution – See KPR #60

Permanent Fix – See KPR #60

KPR #86 HP-83A REVID: A

Problem – See KPR #60

Work Around Solution – See KPR #60

Permanent Fix – See KPR #60

KPR #98 HP-85A REVID: B

Problem – When these conditions exist in a program:

1) "Option base 1" is specified
2) A 'READ#' operation is performed on a numeric array, e.g., read #1;A() and the number of data items in the file being read from is larger than the array dimension the program may be altered.

Work Around Solution – Make sure arrays are always dimensioned larger than the number of elements in the file.

Permanent Fix – No fix is planned at this time.

KPR #100 HP-83A REVID: A

Problem – See KPR #98

Work Around Solution – See KPR #98

Permanent Fix – No fix is planned at this time.

KPR #110 HP-87A REVID: A

Problem – When using an HP-87 assembler ROM, a source code file longer than 64k bytes will show up in a catalog has having 257 bytes/rec.

Work Around Solution – This will not affect loading and storing of source files.

Permanent Fix – No fix is planned at this time.

KPR #113 HP-87A REVID: A

Problem – Null prints lists, e.g., print or print using "K" outputs the sequence 40, 15, 12 (octal) which is "blank,CR, LF" instead of "CR,LF" as the 85 does.

Work Around Solution – No work around is available.

Permanent Fix – No fix is planned at this time.

KPR #119 HP-87A REVID: A

Problem – If a very large HP-83/85 program is loaded into the HP-87 and translation begins, it is possible for the HP-83/85 program to exceed the memory capacity of the HP-87. (This can occur because many elements of an HP-87 program require more space than the same elements on an HP-83/85). If this occurs, the HP-87 will go into an infinite loop and never return to user control and give no indication of any problem. The only way to return the machine to user control is to cycle power.

Work Around Solution – This can only occur if the HP-87 has no extra memory and the HP-83/85 program has very little data space allocated, thus making it almost all program code. So, if the HP-87 has extra memory, or if the HP-83/85 program has large amounts of data, there should be no problem. However, if there is a doubt, translation for an HP-83/85 program should take no more than 1/2 to 3/4 hours. If it takes longer, it has exceeded the memory capability of the HP-87.

Permanent Fix –No fix is planned at this time.

KPR #126 HP-87A REVID: A

Problem – Same as KPR #125 in Enhancement ROMs.

Work Around Solution – Same as KPR #125 in enhancement ROMs.

Permanent Fix – No fix is planned at this time.

KPR #127 HP-87A REVID: A

Problem – The 'GRAPHALL' and 'ALPHALL' commands will reset the graphics limits in the computer and an external plotter if the external plotter is the current 'PLOTTER IS' device. For example, this program will work incorrectly:

```
10  PLOTTER IS 705        50  MOVE 5,5
20  GRAPHALL              60  Label "This is a Test"
30  SCALE 0, 10, 0, 10    70  END
40  FRAME
```

If this program is executed, it will cause the plotter limits to be reset to a very small rectangle on the external plotter. In addition, if 'GRAPHALL' or 'ALPHALL' is exited by going back to normal mode, the plotter is device will always be set to 'PLOTTER IS 1', the CRT.

Work Around Solution – Always declare 'PLOTTER IS' statements after 'GRAPHALL' or 'ALPHALL' statements and once in either of these modes, do not return to alpha normal or graph normal modes while working with an external plotter.

Permanent Fix – No fix is planned at this time.

KPR #129 HP-87A REVID: A

Problem – In calculator mode, the 'ASSIGN' statement can be concatenated with other statements. It will be accepted by the system, but the 'ASSIGN' statement will not be executed while the rest of the statement does get executed.

Work Around Statement – Do not concetenate other statements with 'ASSIGN' statements in calculator mode.

Permanent Fix – No fix is planned at this time.

KPR #131 HP-87A REVID: A

Problem – If a multi-line function is called from a 'DISP' or 'PRINT' statement, i.e., 20 DISP FNS, and the multi-line function contains a 'READ' statement, the machine may lock up or may generate erroneous error messages like ERROR 21: ROM MISSING.

Work Around Solution – Do not call multi-line functions which contain 'READ' statements from 'DISP' or 'PRINT' statements.

Permanent Fix – No fix is planned at this time.

KPR #132 HP-85A REVID: A

Problem – Same as KPR #131

Work Around Solution – Same as KPR #131

Permanent Fix – No fix is planned at this time.

KPR #133 HP-83A REVID: A

Problem – Same as KPR #131

Work Around Solution – Same as KPR #131

Permanent Fix – No fix is planned at this time.

KPR #134 HP-85A REVID: B

Problem – Same as KPR #131

Work Around Solution – Same as KPR #131

Permanent Fix – No fix is planned at this time.

KPR #144 HP-87A REVID: A

Problem – If the colon is forgotten in the MSUS portion of the 'INITIALIZE' command, e.g., INITIALIZE "B", "D701" the current default drive will be initialized. The MSUS is ignored. (Note: This problem also exists in the 85 mass storage ROM.)

Work Around Solution – Don't do this.

Permanent Fix –No fix is planned at this time.

KPR #149 HP-87A REVID: A

Problem – If two or more disc drive controllers reside at consecutive addresses, e.g., two 82901m's or a 9135A at :D700 and :D710 on the same HP-IB, and a volume label search is performed which causes the HP-87 to examine the second disc and find the desired volume there, the end of line sequence on the HP-IB interface is set to 0. The net result of this is that all subsequent HP-IB actions to printers, plotters or other devices will be sent without the normal carriage return/line feed sequence.

Work Around Solution – This problem does not occur when the addresses of the two discs are not consecutive. For example, :D700 and :D720 as the two addresses will alleviate the problem.

Permanent Fix – No fix is planned at this time.

KPR #151 HP-87A REVID: A

Problem – When 'INF' is assigned to a 'SHORT' variable, the result is 'UNDERFLOW' instead of 'OVERFLOW' and the variable is given the value 0 instead of 99999E99 as the HP-85 does.

Work Around Solution – Do not try to assign 'INF' to a 'SHORT' variable.

Permanent Fix – No fix is planned at this time.

KPR #158 HP-87A REVID: A

Problem – The HP-87 will assign a value of zero to a 'SHORT' variable if the value assigned is very close to 'INF' or negative zero in the case of the -INF.

```
SHORT b              Warning 1 : UNDEFFLOW
a=9.999999999e499    b
b=a                   0
```

Work Around Solution – By testing values assigned to short variables for an excess of 9.9999e99, and then assigning the "short" variable 9.9999e99 (or the negative), you will avoid this problem.

Permanent Fix – No fix is planned at this time.

KPR #168 HP-87A REVID: A

Problem – See KPR #234 in enhancement ROMs.

Work Around Solution – See KPR #234 in enhancement ROMs.

Permanent Fix – See KPR #234 in enhancement ROMs

KPR #169 HP-87A REVID: A

Problem – At certain times, if a 'FOR - NEXT' loop is entered, and is expired upon entry, the system may go into an infinite loop, may generate 'SYSTEM ERROR 15', and may change the code in the program, e.g., the program:

```
10  DIM A$ 257
20  FOR I = 1 to 0 @ DISP I @ NEXT I
30  END
```

will generate 'ERROR 15 on LINE 20 : SYSTEM' the second time it is run (it will not generate the error if it is unallocated).

Work Around Solution – If this problem occurs, it can usually be corrected by changing the variable used as the 'FOR' loop counter (for example, changing I to J in the program above), or adding a comment at the front of the program.

Permanent Fix – No fix is planned at this time.

KPR #171 HP-85A REVID: B

Problem – Doing normal string manipulations on a string that has been designated an SARRAY will crash the system, example:

```
SARRAY A$            A$=" "
A$="123"             SLET A$(1)="123"
SLET A$(1)="ABC"
```

Work Around Solution – Do not use normal mode string manipulations on string arrays.

Permanent Fix – No fix is planned at this time.

KPR #172 HP-85A REVID: B

Problem – If a string variable is the last input variable in an 'INPUT' statement, it does not have to be satisfied, e.g., INPUT A,B$ will be satisfied by an input of 5.

Work Around Solution – No work around at this time.

Permanent Fix – No fix is planned at this time.

KPR #178 HP-87A REVID: A

Problem – Entering numeric data from an I/O card while 'TRACE ALL' is printing to an external printer will lock up the card being entered from. Example:

```
10  Printer IS 701,80
20  Trace all
30  Enter 10 using "#,K"1,A  (This works, but when you
40  DISP A                   get to 50 the card is locked
50  Output 10 using "#,K",B  up and must be reset)
60  DISP "done"
70  END
```

Work Around Solution – Turn off traces before enter statements.

Permanent Fix – No fix is planned at this time.

KPR #179 HP-87XM REVID: A

Problem – Same as KPR #178

Work Around Soltuion – Same as KPR #178

Permanent Fix – Same as KPR #178.

KPR #180 HP-86A REVID: A

Problem – Same as KPR #178

Work Around Solution – Same as KPR #178

Permanent Fix – Same as KPR #178.

KPR #185 HP-85A REVID: A

Problem – Same as KPR #172

Work Around Solution – Same as KPR #172

Permanent Fix – Same as KPR #172.

KPR #188 HP-87XM REVID: A

Problem – See KPR #234 in enhancement ROMs

Work Around Solution – See KPR #234 in enhancement ROMs

Permanent Fix – See KPR #234 in enhancement ROMs.

KPR #190 HP-85A REVID: A

Problem – The character immediately following the last defined character in a string is defined as 'NULL' and does not cause a 'STRING OVERFLOW' error, e.g.,

```
10 A$="hello"
20 DISP A$[6]
```

does not cause 'STRING OVERFLOW' when it should.

Work Around Solution – No work around at this time.

Permanent Fix – No fix is planned at this time.

KPR #199 HP-83A REVID: A

Problem – Same as KPR #190

Work Around Solution – Same as KPR #190

Permanent Fix – Same as KPR #190

KPR #200 HP-85A REVID: B

Problem – Same as KPR #190

Work Around Solution – Same as KPR #190

Permanent Fix – Same as KPR #190

KPR #204 HP-85A REVID: A

Problem – Errors that occur during an input expression evaluation

are not trapped by active 'ON ERROR' specifier, e.g.,

```
10 ON ERROR GOTO 100    100 DISP "error"
20 Input A              110 END
30 Stop
```

If the response to the input is 'B', a 'NULL DATA' error will occur and not be detected by the system.

Work Around Solution – No work around is available at this time.

Permanent Fix – No fix is planned at this time.

KPR #205 HP-85A REVID: B

Problem – See KPR #204

Work Around Solution – See KPR #204

Permanent Fix – See KPR #204.

KPR #206 HP-86A REVID: A

Problem – See KPR #204

Work Around Solution – See KPR #204

Permanent Fix – See KPR #204.

KPR #207 HP-87A REVID: A

Problem – See KPR #204

Work Around Solution – See KPR #204

Permanent Fix – See KPR #204.

KPR #208 HP-86A REVID: A

Problem – See KPR #110

Work Around Solution – See KPR #110

Permanent Fix – See KPR #110.

KPR #209 HP-87XM REVID: A

Problem – See KPR #110

Work Around Solution – See KPR #110

Permanent Fix – See KPR #110.

KPR #210 HP-86A REVID: A

Problem – See KPR #113

Work Around Solution – See KPR #113

Permanent Fix – See KPR #113.

KPR #211 HP-87XM REVID: A

Problem – See KPR #113

Work Around Solution – See KPR #113

Permanent Fix – See KPR #113.

KPR #214 HP-86A REVID: A

Problem – See KPR #125 in enhancement ROMs

Work Around Solution – See KPR #125 in enhancement ROMs

Permanent Fix – See KPR #125 in enhancement ROMs.

KPR #215 HP-87XM REVID: A

Problem – See KPR #125

Work Around Solution – See KPR #125

Permanent Fix – See KPR #125.

KPR #216 HP-86A REVID: A

Problem – See KPR #127

Work Around Soltuion – See KPR #127

Permanent Fix – See KPR #127.

KPR #217 HP-87XM REVID: A

Problem – See KPR #127

Work Around Solution – See KPR #127

Permanent Fix – See KPR #127.

KPR #218 HP-86A REVID: A

Problem – See KPR #129

Work Around Solution – See KPR #129

Permanent Fix – See KPR #129.

KPR #219 HP-87XM REVID: A

Problem – See KPR #129

Work Around Soltuion – See KPR #129

Permanent Fix – See KPR #129.

KPR #220 HP-86A REVID: A

Problem – See KPR 131

Work Around Solution – See KPR #131

Permanent Fix – See KPR #131.

KPR #221 HP-87XM REVID: A

Problem – See KPR #131

Work Around Soltuion – See KPR #131

Permanent Fix – See KPR #131.

KPR #222 HP-86A REVID: A

Problem – See KPR #144

Work Around Solution – See KPR #144

Permanent Fix – See KPR #144.

KPR #223 HP-87XM REVID: A

Problem – See KPR #144

Work Around Solution – See KPR #144

Permanent Fix – See KPR #144.

KPR #224 HP-86A REVID: A

Problem – See KPR #149

Work Around Solution – See KPR #149

Permanent Fix – See KPR 149.

KPR #225 HP-87XM REVID: A

Problem – See KPR #149

Work Around Solution – See KPR #149

Permanent Fix – See KPR #149.

KPR #226 HP-86A REVID: A

Problem – See KPR #151

Work Around Solution – See KPR #151

Permanent Fix – See KPR #151.

KPR #227 HP-87XM REVID: A

Problem – See KPR #151

Work Around Solution – See KPR #151

Permanent Fix – See KPR #151.

KPR #228 HP-86A REVID: A

Problem – See KPR #158

Work Around Solution – See KPR #158

Permanent Fix – See KPR #158.

KPR #229 HP-87XM REVID: A

Problem – See KPR #158

Work Around Solution – See KPR #158

Permanent Fix – See KPR #158.

KPR #232 HP-86A REVID: A

Problem – See KPR #169

Work Around Solution – See KPR #169

Permanent Fix – See KPR #169.

KPR #233 HP-87XM REVID: A

Problem – See KPR #169

Work Around Solution – See KPR #169

Permanent Fix – See KPR #169.

KPR #235 HP-86A REVID: A

Problem — See KPR #234 in enhancement ROMs

Work Around Solution — See KPR #234 in enhancement ROMs

Permanent Fix — See KPR #234 in enhancement ROMs.

KPR #244 HP-86A REVID: A

Problem — 10 IF A THEN READ B ELSE MYLABEL listing this line crashes the system.

Work Around Solution — 10 if A then read B else goto MYLABEL lists just fine.

Permanent Fix — No fix is planned at this time.

KPR #245 HP-87A REVID: A

Problem — Same as KPR #244

Work Around Solution — Same as KPR #244

Permanent Fix — Same as KPR #244.

KPR #246 HP-87XM REVID: A

Problem — See KPR #244

Work Around Solution — See KPR #244

Permanent Fix — See KPR #244.

KPR #247 HP-87A REVID: A

Problem — The system de-allocator does not call an external ROMs initialization routine when it encounters an external ROM token with a class >56. This only shows up for those people doing assembly language programming on the 86/87. (And then only for those who want to get control when one of their tokens are getting de-allocated.)

Work Around Solution — No work around at this time.

Permanent Fix — No fix is planned at this time.

KPR #269 HP-87XM REVID: A

Problem — Same as KPR #247

Work Around Solution — Same as KPR #247

Permanent Fix — Same as KPR #247.

KPR #271 HP-86A REVID: A

Problem — If 'RESET' is pressed during a 'CHAIN' operation, a partial concatenation of the new and old programs will be left in memory. When 'LIST' is pressed, you may get a 'CLEAN' border between the two sections or the system may hang.

Work Around Solution — Don't press 'RESET' during a chain operation. If you do, immediately execute a scratch.

Permanent Fix — No fix is planned at this time.

KPR #272 HP-87XM REVID: A

Problem — Same as KPR #271

Work Around Solution — Same as KPR #271

Permanent Fix — Same as KPR #271.

E N H A N C E M E N T R O M S

MASS STORAGE ROM REVID: A Product No 00085-15001

KPR#	Problem
5	Copying secured programs causes system lockup.
7	Mass storage ROM causes "ERROR 111: IOP" message.
63	'RENAME' command fails if volume label is given.
64	':' and '.' are allowed in volume labels and should not be.
66	Copying 42 data files gives 'DUPLICATE NAME' error.
67	Null strings at record boundaries disappear.
68	'INITIALIZE' does not check current MSUS.
69	'CHECKREAD OFF' command does not work.
70	'ERROR 114:' generated at power on and reset by non-controller HPIB card.
71	Full discs cause 'PURGE' when larger file is 'STORED'.
90	'PRINT' to 82905A followed by volume label search hangs disc.
120	'COPY'ING files with security 1, 2 and 3 hangs up system.
234	Print#/Read# buffers become unuseable if assigned to write protect disc.

PLOTTER/PRINTER ROM REVID: A Product No. 00085-15002

KPR#	Problem
6	Plotter commands following 'ASSIGN' statements cause errors.
13	'BREAD' into common variable failure.
19	First null string output to external printer lost by plotter/printer ROM
58	Plotter/printer ROM causing garbage characters after 'PRINT USING "10"'.
125	'IMAGE' statements like n(/) hang machine.
160	'LAXES' may not work correctly with 7470A.
164	'LGRID' command plots a "tail" on grids.
165	First x-axis label and TIC omitted when 'AXES' or 'LAXES' executed.

INPUT/OUTPUT ROM REVID: A Product No. 00085-15005

KPR#	Problem
9	Print/disp/output with "/" as last 'IMAGE' specifier can cause problems.
14	I/O ROM 'ENABLE KBD' failure with chained programs.
17	PRINT/DISP/OUTPUT STMTS give incorrect result with 'e' as last image.
53	Single interrupt 'TRANSFER' to multiple devices won't work.
87	The STMT'ON KBD' in program dev ROM and 'ENABLE KBD' in I/O ROM may lose keys.
91	I/O card interrupts cause various problems.
95	'B' image specifier replication parameter not correct.
97	I/O ROM causes truncation of 'XREF' output to external printer.
123	'SET TIMEOUT' counts milliseconds improperly.

MATRIX ROM REVID: A Product No. 00085-15004

KPR#	Problem
10	'MAT PRINT USING "#..." ' may cause computer memory to be listed.
11	'REDIM' with too large dimensions may hang system or produce garbage.
12	"MAT PRINT/DISP using" error, multiple matrices, 'ROW' or 'COL' option.
15	'MAT PRINT' and 'MAT DISP' cause memory overflow error.
94	Array functions give incorrect results during interrupt transfer.

ADV PRG ROM REVID: A Product NO. 00085-15005

KPR#	Problem
93	'COM MISMATCH' error in subprogram calls.
96	Subprogram calls from inside multi-line functions hangs system.
99	Adv prg ROM causes truncation of 'XREF' output to external printer.
108	Subprogram returns cause CRT to turn back on.
170	The 'ASSIGN#' statement nullifies the 'CRT OFF' command.

ASSEMBLER ROM REVID: A Product No. 00085-15007

KPR#	Problem
89	Binary programs with token class >56 will not be permitted to allocate.
243*	Wrong address for get IN.

PLOTTER ROM REVID: A Product No. 00087-15002

KPR#	Problem
109	'DUMP GRAPHICS' and 'DUMP ALPHA' do not work over RS-232.
112	'DUMP GRAPHICS' accepts single parameter causing erroneous results.
152	'LAXES' to external plotter may cause memory overflow.
166	First X-axis label and TIC omitted when "axes" or "laxes" executed.

INPUT/OUTPUT ROM REVID: 9 Product No. 00087-15003

KPR#	Problem
157	I/O ROM interrupt service routine destroys contents of R0-R1.

INPUT/OUTPUT ROM REVID: A Product No. 00087-15003

KPR#	Problem
124	'SET TIMEOUT' counts milliseconds improperly.
176	'ENABLE KBD' fails to lock out keys in 'GRAPH' mode.
177	'OUTPUT' statement resets line length of 'PRINTER IS' statement.

MATRIX ROM REVID: A Product No. 00087-15005

KPR#	Problem
201	'PRINT" ignores 'REDIM" parameters.

ADV PRG ROM REVID: A Product No. 00087-15005

KPR#	Problem
250*	Editing main with sub programs in memory hang system.

ASSEMBLER ROM REVID: A Product No. 00087-15007

KPR#	Problem
130	'GTO' pseudo-op may generate incorrect address.
248*	Wrong address for 'RNDIZ'.

PROGRAM DEVELOP ROM REVID: A Product No. 98151A

KPR#	Problem
88	'ON KBD' statement in prog. dev. and 'ENABLE KBD' in I/O ROMs may lose keys.

KPR# 5 Mass Storage ROM REVID: A

Problem – Tape/disc copy of security type 1 program causes lockout/reset of machine.

Work Around Solution – Don't try to copy security type 1 programs.

Permanent Fix – No fix is planned at this time.

KPR# 6 Plotter/Printer ROM REVID: A

Problem – Several plotter commands when following an assign "buffer" command which uses a volume label with the file name will cause an error 89, e.g.,

```
10 plotter is 705
20 assign #1 to "file.Vol"
30 limit 0,100,0,100
```

Work Around Solution – If your program needs to assign a file either assign it before doing your 'PLOTTER IS' statement or do not use volume labels. Sometimes you can change position of this statement within the program and make it work, i.e.,

```
10 PLOTTER IS 705        40 ASSIGN #1 to "file.Vol"
20 LIMIT 0,100,0,100     50 READ #1; X,Y,P
30 SCALE 0,10,0,10
```

Permanent Fix – No fix is planned at this time.

KPR #7 Mass Storage ROM REVID: A

Problem – Certain system configurations involving the mass storage ROM will give the message "error 111:IOP" at power-on and during volume searches (load "Name.Label"). The configurations that give this message are:

1) System has HPIB and another interface card.
2) HPIB ISC (Interface Select Code) is less than the ISC for the other I/O card.
3) Disc drive is disconnected, not on, or in selftest mode.
4) System power-on or volume label search.

or

1) System with HPIB and another interface card
2) HPIB ISC is greater than the ISC for the other interface (for example HPIB=7 and GPIO=4).

Work Around Solution – Make sure that the interface select code for the HPIB card is the lowest in the system, and that the disc drive is both attached and powered up. Note that when first powered up, the disc performs a self test and that the self test mode will cause the error. Thus, you must turn the disc on prior to powering up the computer.

Permanent Fix – No fix is planned at this time.

KPR #9 INPUT/OUTPUT ROM REVID: A

Problem – PRINT/DISP/OUTPUT using statements that have 'IMAGE' statements that end with a "/" will cause the next PRINT/DISP/OUTPUT statement to behave peculiarly, e.g., many line-feeds will be generated or the system will hang up.

Work Around Solution – Enclose all "/" image specifiers in commas when they terminate an image specifier, e.g.,

Image K,/,becomes Image K,/,

Permanent Fix – No fix is planned at this time.

KPR #10 MATRIX ROM REVID: A

Problem – 'MAT PRINT USING "#,..."' may cause the computer to list memory. This is usually done in an attempt to print more than one row of the matrix on a single line.

Work Around Solution – Redimension array to have the appropriate number of columns per row and avoid using the "#" image specifier. However, always remember to 'REDIM' the array to its original size before the program ends.

Permanent Fix – No fix is planned at this time.

KPR #11 MATRIX ROM REVID: A

Problem – Some REDIM statements where the REDIM parameters are greater than the original matrix size may cause the machine to clear memory or create unexpected results.

```
10 Option Base 1      50 REDIM A[255,255)
20 DIM A(2,2)         60 MAT Print A
30 Print "bye"        70 END
40 Mat Input A
```

Work Around Solution – Never let the total number of elements in the new working array exceed the original dimension.

Permanent Fix – No fix is planned at this time.

KPR #12 MATRIX ROM REVID: A

Problem – Matrix ROM interpretation of 'IMAGE' statements when used in 'MAT DISP/PRINT' used in conjunction with the 'ROW' or 'COL' option will cause erroneous outputs. This error only occurs when multiple matrices are being output.

Work Around Solution – When using the 'ROW' or 'COL' option with 'MAT PRINT (OR DISP) USING,' use separate 'MAT PRINT' statements for each matrix to be output.

Permanent Fix – No fix is planned at this time.

KPR #13 PLOTTER/PRINTER ROM REVID: A

Problem – If a string variable is dimensioned as common in a program, then 'BREAD' will not fill the variable in calculator mode. No error is generated but target string is null.

Work Around Solution – While in calculator mode, do not attempt to 'BREAD' into variables dimensioned as common.

Permanent Fix – No fix is planned at this time.

KPR #14 INPUT/OUTPUT ROM REVID: A

Problem – If the 'ENABLE KBD' command is used to redefine the keyboard and the program chains to another program while the enable KBD is still in effect, the keyboard becomes totally locked out in the new program.

Work Around Solution – To avoid total lockout, another 'ENABLE KBD' command should be executed in the program chained to.

Permanent Fix – No fix is planned at this time.

KPR #15 MATRIX ROM REVID: A

Problem – 'MAT DISP' and 'MAT PRINT" for large arrays will

cause a memory overflow error (error 19) in the middle of output and then stop outputting.

Work Around Solution – Although not optimal, you will need to output large arrays using 'FOR/NEXT' loop statements. Example:

```
200  For I=1 to X      230  Next J
210  For J=1 to Y      240  Disp
220  Print A(I,J);     250  Next I
```

Permanent Fix – No fix is planned at this time.

KPR #17 INPUT/OUTPUT ROM REVID: A

Problem – 'PRINT', 'DISP' and 'OUTPUT' statements with image statements that end with "e" delimiter will not give a correct output format. Example:

```
10  Print using "D,2(XX,MD.3De)" ; 1,2,3
20  End
1   2.000E+003
```

Work Around Solution – To avoid this problem, always encase the "e" delimiter with commas, example:

```
10  Print using "D,2(XX,MD.3De,)" ; 1,2,3
20  End
1   2.000E+00   3.000E+00
```

Permanent Fix – No fix is planned at this time.

KPR #19 PLOTTER/PRINTER ROM DREVID: A

Problem – When printing to an external printer the plotter/printer ROM will not recognize a null string as the first element of a print list in a basic statement, example:

```
10  Print , 1,2
 1                2
```

Work Around Solution – To correct for this problem simply use an extra comma at the start of the print list, example:

```
10  Print ,,1,2
                 1              2
```

Permanent Fix – No fix is planned at this time.

KPR #53 INPUT/OUTPUT ROM REVID: A

Problem – The I/O ROM will not allow data to be sent to multiple devices in a single interrupt 'TRANSFER' statement.

Work Around Solution – Use either the output statement to multiple devices or multiple interrupt transfers – one to each device.

Permanent Fix – No fix is planned at this time.

KPR #58 PLOTTER/PRINTER ROM REVID: A

Problem – When your computer is configured in this form:

```
Mainframe
External Printer
P/P ROM
Other ROMs except I/O ROM
Interface to Printer
```

Image statements of the form

```
Image NN/
```

where NN is some number greater than or equal to 10, and is being printed to an external printer, may cause the next 'PRINT' statement to print garbage characters before the next print information is printed.

Work Around Solution – Avoid using repeat specifiers greater than 9 for line feed specifiers.

Permanent Fix – No fix is planned at this time.

KPR #63 MASS STORAGE ROM REVID: A

Problem – The "RENAME" command will not work if the file is specified with a volume label, e.g., rename "FNAME.VOLUME" will not work.

Work Around Solution – Specify files to be renamed with an ":MSUS" instead of a volume label.

Permanent Fix – No fix is planned at this time.

KPR #64 MASS STORAGE ROM REVID: A

Problem – In the volume label parameter (parameter 1) of the 'INITIALIZE' command it is legal to use ':' or '.' as part of the volume label. This can lead people to think that the command initialize ":D701" is going to initialize drive 701 when it will actually give that volume label to the default drive's disc.

Work Around Solution – Make sure of the syntax of the initialize command before using the command.

Permanent Fix – No fix is planned at this time.

KPR #66 MASS STORAGE ROM REVID: A

Problem – When copying a tape with 42 data files to disc, the end of the tape directory is not recognized. This gives a 'DUPLICATE NAME' error message as the copy routine wraps around to the beginning of the directory after copying all files once.

Work Around Solution – Ignore the error message generated.

Permanent Fix – No fix is planned at this time.

KPR #67 MASS STORAGE ROM REVID: A

Problem – A null string that occurs at a record boundary gets lost.

Work Around Solution – Avoid writing null strings to data files.

Permanent Fix – No fix is planned at this time.

KPR #68 MASS STORAGE ROM REVID: A

Problem – The 'INITIALIZE' command does not check to see what the current mass storage unit is, it simply tries to access the disc.

Work Around Solution – Ensure the disc is the current MSUS before performing an initialize.

Permanent Fix – No fix is planned at this time.

KPR #69 MASS STORAGE ROM REVID: A

Problem – The 'CHECKREAD OFF' command does not work.

Work Around Solution – The computer must be turned off to clear the 'CHECKREAD ON' command.

Permanent Fix – No fix is planned at this time.

KPR #70 MASS STORAGE ROM REVID: A

Problem – Mass storage ROM does not differentiate between controller and non-controller HPIB cards. Having a non-controller HPIB card at lowest select code will cause error 114 at power-on and reset.

Work Around Solution – Ensure that the controller HPIB card (to which the disc drive is attached) has the lowest select code in the backplane, and avoid volume searches. Also see KPR #7, enhancement ROMs.

Permanent Fix – No fix is planned at this time.

KPR #71 MASS STORAGE ROM REVID: A

Problem – When a disc is full and a 'STORE' is attempted on a file which has increased in size, the smaller file is purged before the disc is checked for sufficient space to 'STORE' the new file. Thus, the old file is purged and the new file is left in memory, but not stored.

Work Around Solution – Insure that there is sufficient space on the disc before doing a 'STORE'.

Permanent Fix – No fix is planned at this time.

KPR #87 INPUT/OUTPUT ROM REVID: A

Problem – See KPR #60 in Mainframe Section

Work Around Solution – See KPR #60 in Mainframe Section

Permanent Fix – See KPR #60 in Mainframe Section.

KPR #88 DEVELOP ROM REVID: A

Problem – See KRP #60 in Mainframe section

Work Around Solution – See KPR #60 in Mainframe Section

Permanent Fix – See KPR #60 in Mainframe Section.

KPR #89 ASSEMBLER ROM REVID: A

Problem – See KPR #29 in Mainframe Section

Work Around Solution – See KPR #29 in Mainframe Section

Permanent Fix – See KPR #29 in Mainframe Section.

KPR #90 MASS STORAGE ROM REVID: A

Problem – When using an HP-85 or HP-83, (00085-15001) Mass Storage ROM, an HP-82905A or B printer, and an HP 82900 series disc drive; it is possible to lock up the disc drive. The lock up occurs whenever you do a mass storage operation involving a volume label search immediately following a print operation. The printer is not unlistened by the mass storage ROM commands and therefore tends to disrupt the talking between the disc and the computer leaving the disc confused.

Work Around Solution — The solutions to avoiding the lockup involve programming around it. One method is to not use volume labels in mass storage operations following print statements. A second method is to add a "wait 30DO" statement between the print statement and the mass storage statement. The final solution requires an I/O ROM (00085-15003). With an I/O ROM, you can add an "unlisten" command (send 7; UNL) between the print command and the mass command.

Permanent Fix — No fix is planned at this time.

KPR #91 INPUT/OUTPUT ROM REVID: A

Problem — This problem occurs when the interrupt mask in register 1 of the I/O card is enabled and one of the specified interrupting conditions occurs within approximately 40 microseconds after the HP-85 has written a command to the I/O card.

Possible effects of the bug include: Halting of programs generation of erroneous/ridiculous error messages, input/output of "garbage: and dynamic alteration of the card's operating characteristics without any message or indication. (For example, switching from positive-true to negative true logic in the middle of a program.)

Work Around Solution — Explicitly disable interrupts before any I/O operation, and explicitly reenable them afterwards; for example:

```
50  Control 7,1,;0!Disable
INTR.
60  Enter 704;A$ ! I/O
OPERATION
70  CONTROL 7,1;8 !
REENABLE INTR.
```

Note that you must use the statement control ISC,1;0 to disable interrupts. The OFF INTR statement will not work in this case. Statements that must be treated this way are:

ABORTIO	PPOLL
ASSERT	REMOTE
CLEAR	REQUEST
ENABLE INTR	RESUME
ENTER	SEND
HALT	SPOLL
LOCAL	STATUS
LOCAL LOCKOUT	TRIGGER
OUTPUT	TRANSFER INTR
PASS CONTROL	TRANSFER FHS

In some applications it may be important to note that the two control statements impose a penalty of 28 milliseconds when they are used.

Permanent Fix — No fix is planned at this time.

KPR #93 ADV PRG ROM REVID: A

Problem — When using a 'COM' statement to share parameter values between calling programs and subprograms, you will get an 'ERROR 32: COM MISMATCH' if anything other than a numeric array definition is encountered first in the 'COM' statement and there is no 'OPTION BASE' statement.

Work Around Solution — Put an 'OPTION BASE' statement in the calling program and all subprograms using common variables or ensure that a numeric array definition is the first item in your 'COM' statements. See KPR #18.

Permanent Fix — No fix is planned at this time.

KPR #94 MATRIX ROM REVID: A

Problem — The array functions (ABSUM, AMAX, AMIN, CNORM, FNORM, BNORM, MAXAB, SUM) will usually not return correct results while an interrupt transfer is active.

Work Around Solution — Do not use these functions while an interrupt transfer is active.

Permanent Fix — No fix is planned at this time.

KPR #95 INPUT/OUTPUT ROM REVID: A

Problem — The 'B' (byte) image specifier with replication [i.e., 3(B)] does not work correctly. (The replication part is ignored). Example: Output 701 using "7(B),X,W";1,2,3,4,5,6,7,8, Outputs the following: 1, ,0,2,3 ,0,4,5, ,0,6,7, ,0,8 (commas shown only to separate bytes) which would also result from the statement: Output 701 using "8,X,W";1,2,3,4,5,6,7,8

Work Around Solution — The inclusion of an added pair of parentheses will correct this problem. Example:

Output 701 using "(7(B)),X,W";1,2,3,4,5,6,7,8 Outputs the following:

1,2,3,4,5,6,7, ,0,8

Permanent Fix — No fix is planned at this time.

KPR #96 ADV PRG ROM REVID: A

Problem — When 'CALLING' a subprogram from inside a multi-line function, and the subprogram is not currently in memory, the system may 'HANG' or the contents of memory may be altered, including program lines.

Work Around Solution — Do not 'CALL' subprograms from inside a multi-line function.

Permanent Fix — No fix is planned at this time.

KPR #97 INPUT/OUTPUT ROM REVID: A

Problem — With a machine configuration of:

1) Series 80 computer (HP 83 or 85)
2) Input/Output ROM
3) Advanced Programming ROM

Then try to redirect the result of an 'XREF' command to an external printer, the last character on each line will not be printed.

Work Around Solution — Use a Plotter/Printer ROM instead of or in addition to the I/O ROM.

Permanent Fix — No fix is planned at this time.

KPR #98 ADV PRG ROM REVID: A

Problem — See KPR #97

Work Around Solution — See KPR #97

Permanent Fix — No fix is planned at this time.

KPR #108 ADV PRG ROM REVID: A

Problem — The 'CRT OFF' function does not keep the CRT in an off state when returning from subprograms, even though it does leave it off during subprogram calls.

Work Around Solution — If CRT is to remain off, all subprogram calls must be followed by a 'CRT OFF' command.

Permanent Fix — No fix is planned at this time.

KPR #109 PLOTTER ROM REVID: A

Problem — Dump alpha and dump graphics do not work over RS-232. Only reset returns the machine to user control for HP-Raster printers (printer Type 1).

Work Around Solution — Do not attempt to dump alpha or graphics over RS-232.

Permanent Fix — No fix is planned at this time.

KPR #112 PLOTTER ROM REVID: A

Problem — 'DUMP GRAPHICS' will accept a single parameter causing erroneous dumps.

Work Around Solution — Always use either 0,2,3, or 4 parameters, never only one.

Permanent Fix — No fix is planned at this time.

KPR #120 MASS STORAGE ROM REVID: A

Problem — If a file has types 1, 2 and 3 security assigned to it, and an attempt is made to 'COPY' the file from one location to another, it may cause the HP-85 to 'LOCK-UP' forcing the user to cycle power.

Work Around Solution — Avoid trying to copy files secured with Type 1, 2 and 3 security assigned to it.

Permanent Fix — No fix is planned at this time.

KPR #123 INPUT/OUTPUT ROM REVID: A

Problem — The 'SET TIMEOUT' command does not work in milliseconds as specified. For each millisecond specified (minus overhead) only .6215 MS. elapse. There is also an upper limit of 20.54 seconds (which translates to 32767 loop counts).

Work Around Solution — To convert to an elapsed time in milliseconds, use

```
set timeout <SC>; <NUM>/.6215
```

This will cause a wait of <NUM> milliseconds.

Permanent Fix — No fix is planned at this time.

KPR #124 INPUT/OUTPUT ROM REVID: A

Problem — Same as KPR #123

Work Around Solution — Same as KPR #123

Permanent Fix — No fix is planned at this time.

KPR #125 PLOTTER/PRINTER ROM REVID: A

Problem – If there is no Input/Output ROM in the computer, 'PRINT USING' statements with 'IMAGE' statements containing "n(/)" (where n is greater than 10) will lock up the machine when an external printer is in the 'PRINTER IS' device.

Work Around Solution – Use multiple slashes instead of a replication specifier, i.e., //// instead of 4(/).

Permanent Fix – No fix is planned at this time.

KPR #130 ASSEMBLER ROM REVID: A

Problem – The 'GTO' pseudo-OP may not generate the correct address if there is more than one GTO reference to the same label and the label occurs after the references to it.

Work Around Solution – Define the label before the GTO is used a second time (for the same label or do not use the GTO pseudo-instruction (calculate the address and load the PC with the calculated address minus one).

Permanent Fix – No fix is planned at this time.

KPR #152 PLOTTER ROM REVID: A

Problem – When plotting to an external plotter, the 'LAXES' will consume about 70 bytes of RAM each time an increment is labeled. This memory is not released until the end of the current line being executed, and may cause memory overflow.

Work Around Solution – Adding more memory will prevent this problem.

Permanent Fix – No fix is planned at this time.

KPR #157 INPUT/OUTPUT ROM REVID: 9

Problem – Same as KPR #156

Work Around Solution – Same as KPR #156

Permanent Fix – Same as KPR #156

KPR #160 PLOTTER/PRINTER ROM REVID: A

Problem – The 'LAXES' command will work incorrectly with the 7470A Plotter under certain conditions, e.g.,

```
Plotter is 705              Scale 0, 90, 0, 40
Locate 10, 130, 20, 90      Laxes 10, 10, 0, 0, 2, 1
```

Will result in no X-axis labels being printed.

Work Around Solution – By altering the X-min value only slightly, say + or - .00001, it will work correctly.

Permanent Fix – No fix is planned at this time.

KPR #164 PLOTTER/PRINTER ROM REVID: A

Problem – Certain combinations of 'LOCATE' and 'SCALE' will cause the 'LGRID' command to draw a "tail" on the GRID.

Work Around Solution – Slightly vary the parameters of either 'SCALE,' 'LOCATE,' or 'LGRID'.

Permanent Fix – No fix is planned at this time.

KPR #165 PLOTTER/PRINTER ROM REVID: A

Problem – If plotting to an external plotter, and a 'LOCATE' statement is executed which locates the X-axis bounds starting at greater than 51 gu's, 'AXES' and 'LAXES' do not label the first x TIC and the TIC mark is omitted.

Work Around Solution – This is caused by an internal rounding error in the machine. Typically, simply respecifying the scale parameters to just slightly larger will correct the error, e.g.,

```
If scale 1,10,1,10
causes the problem
Scale .999,10.001,.999,10.001
will correct it.
```

Permanent Fix – No fix is planned at this time.

KPR #166 PLOTTER ROM REVID: A

Problem – Same as KPR #165

Work Around Solution – Same as KPR #165

Permanent Fix – Same as KPR #165

KPR #170 ADV PRG ROM REVID: A

Problem – The "assign#" statement nullifies the 'CRT OFF' command.

Work Around Solution – Execute the 'ASSIGN#' statement prior to executing 'CRT OFF'.

Permanent Fix – No fix is planned at this time.

KPR #176 INPUT/OUTPUT ROM REVID: A

Problem – 'ENABLE KBD' has no effect when doing input operations in 'GRAPH' mode, for example:

```
10  Graph @ Move 50,50      30  Input A
20  Enable KBD 0            40  End
```

will not cause the keys to become inactive.

Work Around Solution – Do not go into input mode in 'GRAPH' if the keyboard must be locked out. Only do inputs in 'ALPHA' mode.

Permanent Fix – No fix is planned at this time.

KPR #177 INPUT/OUTPUT ROM REVID: A

Problem – The 'OUTPUT' statement resets printer line length value. If the printer is defined via a "printer IS (select code), (line length)" and an 'OUTPUT' statement is executed to any select code, the line length value is changed to 220 bytes.

Work Around Solution – Execute another PRINTER IS (select code), (line length) before any print statements.

Permanent Fix – No fix is planned at this time.

KPR #201 MATRIX ROM REVID: A

Problem – If a Matrix ROM 'REDIM' statement (either explicit or implicit) is used to change the dimensions of an array to a size smaller than the array was originally dimensioned, and that array is then written to mass storage using the 'PRINT#' command, the system will try to store the entire array as originally dimensioned, not as it was redimensioned, e.g.,

```
10  DIM A(10,10)
20  MAT A=CON (8,8) ! this implicitly redimensions to 8x8
30  Assign#1 to "data"
40  Print#1; A(,)
50  Assign#1 to *
60  END
```

This program will attempt to write all of the elements to the 10 x 10 array instead of the redimensioned 8 x 8 array.

Work Around Solution – Store arrays that have been redimensioned using 'FOR-NEXT' loops that store only the size of the redimensioned array.

Permanent Fix – No fix is planned at this time.

KPR #234 MASS STORAGE ROM REVID: A

Problem – If a READ#/PRINT3 buffer is assigned to a file on a write protected disc any information is printed to that file, the given buffer becomes unuseable until machine memory is scratched or a machine reset is performed. This remains true even if write protection is removed from the disc.

Work Around Solution – On the HP-86/87, there is no way to get around the problem.

1) Remove the write protect tab.
2) Do a legal read# on the file, preferably on the same record that was written to. The file can then be closed or reassigned.

On the HP-85, there is no way to recover.

Permanent Fix – No fix is planned at this time.

KPR #243 ASSEMBLER ROM REVID: A

Problem – The documentation for GETIN gives the address as 14437. In reality it's 14337. (The global file lists it correctly).

Work Around Solution – No work around at this time.

Permanent Fix – No fix is planned at this time.

KPR #248 ASSEMBLER ROM REVID: A

Problem – The documentation for 'RNDIZ.' gives the address as 55713. The global file has the correct address.

Work Around Solution – No work around available at this time.

Permanent Fix – No fix is planned at this time.

KPR #250 ADV PRG ROM REVID: A

Problem – With the 87 AP ROM plugged in, if a main program and one or more sub-programs are in memory and you do the following:

1) Edit the main program
2) Press 'INIT' or type 'REN'; then, if the main program contains a string user-defined function, the system will hang or tank.

Work Around Solution – Scratch sub-programs before editing the main.

Permanent Fix – No fix is planned at this time.

expression will be displayed : it may be amended ; press RTN to evaluate it in terms of a fraction

6) Continue as of step 3 under 'To evaluate a number', above.

- To check proper functioning of the program : Use the pre-programmed number 1/ø, which generates the Fibonacci sequence 1,1,2,3,5... - From the 2nd fraction onwards, each numerator should equal the previous denominator, and each denominator should equal the sum of the terms of the previous fraction.
- Do the same, adding a 1 before the decimal point : you should see the same sequence in reverse (i.e. new denominator = old numerator ; new numerator = sum of terms of old fractions)

- Theory of operation : consult any algebra textbook under 'Continued Fractions'

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END LINE

SERIES 80 BUG LIST PART II

Continued from V2N3P24. Last issue covered Mainframes and Enhancement ROMs, this issue covers Software Pacs.

S O F T W A R E P A C S

Standard Pac Revid: A
Product No. 00085-13001

KPR#	Problem
105	'ERROR 84" excess characters' rec'd when 'translate'ing standard pac.
106	Infinite loop in "teach" program

General Statistics Revid: A
Product No. 00085-13502

KPR#	Problem
103	"Image" error when running "TWOAOV"
104	"Error 84: excess characters" message given when translating "pair 2"
191	"DISTR" gives incorrect values for normal with mean not zero.

AC Circuit Analysis Revid: B
Product No. 00085-13505

KPR#	Problem
92	"CAP32" will not give ratio results for nodes >9.

Waveform Analysis Revid: A
Product No. 00085-13507

KPR#	Problem
56	Possibility of erroneous results under certain conditions in 'WAVED'.

Basic S/Data MANIP Revid: A
Product No. 00085-13508

KPR#	Problem
16	Basic STAT and Data MANIP. Pac will not accept data files it did not create.
118	'Volume' error occurs when chaining to 'input' during startup.

Regression Analysis Revid: A
Product No. 00085-13509

KPR#	Problem
102	Incorrect values in 'RESID' program for standardized residuals.

VISICALC Plus Revid: A
Product No. 00085-13511

KPR#	Problem
54	VISICALC bar charts not starting at zero have incorrect heights.
101	Bad labels, missing hatch lines, or missed boundaries occur in 'VZPIE'.
107	Global column width of 128 hangs machine.
114	Truncated y-axis labels in 'VZBAR' appear.
193	Illegal cell references generated with 'REPLICATE' causes load error.

VISICALC Plus Revid: B
Product No. 00085-13511

KPR#	Problem
73	Global column width of 128 hangs machine.
111	Truncated y-axis labels in 'VZBAR' appear.
192*	Illegal cell references generated with 'REPLICATE' causes load error.

VISICALC Plus Revid: C
Product No. 00085-13511

KPR#	Problem
194*	Illegal cell references generated with 'REPLICATE' causes load error.

Surveying Revid: A
Product No. 00085-13512

KRP#	Problem
61	Asimuth inputs in 'TRAV' or 'TRAVP' may cause errors
62	Bearing-distance intersection calculations incorrect in certain cases.

Surveying Revid: B
Product 00085-13512

KPR#	Problem
161	Program hangs in infinite loop in NORTHING/ EASTING not specified.

Text Editing Revid: A
Product No. 00085-13520

KPR#	Problem
4	Text editing Pac errors

Data Communications Revid: A
Product No. 00085-13521

KPR#	Problem
142	If ENQ/ACK handshake is chosen, DTR control line becomes low.
146	CDISP, CWRITE, CPRINT lock up machine if undefined string array used.
270*	IPBIN causes system clock reset.

Data Communications Revid: B
Product No. 00085-13521

KPR#	Problem
155	IPBIN causes system clock reset.

AC Circuit Analysis Revid: A
Product No. 00087-13505

KPR#	Problem
198*	Illegal file name in load or store hangs pac.
237*	Storing to full disc causes program halt.
238*	Purging write protected file gives misleading error message.
239*	Duplicate volume labels cause program halt.
240*	Missing volume label causes program halt.
241*	Incorrect volume label causes bad error message, may halt program.
242*	Comma in volume label halts program.
256*	'OUT SEL' without program disc online gives misleading error message.

AC Circuit Analysis Revid: B
Product No. 00087-13505

KPR#	Problem
257*	'OUT SEL' without program disc online gives misleading error message.
258*	Write protected disc gives "file already exists" error message.
259*	HP-87 CAP does branch current or power incorrectly.
260*	Storing to full disc causes program halt.
261*	Purging write protected file gives misleading error message.
262*	Duplicate volume labels cause program halt.
263*	Missing volume label causes program halt.

AC Circuit Analysis Revid: B
Product No. 00087-13505

KPR#	Problem
264*	Incorrect volume label causes bad error message, may halt program.
265*	Comma in volume label halts program.

Basic S/DATA MANIP Revid: B
Product No. 00087-13508

KPR#	Problem
174*	When programs compute size for file "DATA", it is sometimes too small.
175*	'RANDOM OVERFLOW' error given.

Regression Analysis Revid: A
Product No. 00087-13509

KPR#	Problem
197	HP-87 version ignores subfiles in polynomial regression.

VISICALC Revid: A
Product No. 00087-13511

KPR#	Problem
145	Editing 'VZLINE' axes causes overwrite of old data.
150	VISICALC allows printed lines no longer than 140 characters.
153	Large worksheets may lose data during load.
154	Very large VISICALC files will not store.
186	VISICALC works incorrectly if more than 512k in machine.
255*	No error recovery if disc is full when storing worksheet.
267*	Illegal cell references generated with 'REPLICATE' causes load error.

VISICALC Revid: B
Product No. 00087-13511

KPR#	Problem
187*	VISICALC works incorrectly if more than 512k in machine.
198*	Illegal cell references generated with 'REPLICATE' causes load error.
249*	Logical functions plus 'DIV' or "mod" cause system problems.

Surveying Pac Revid: B
Product No. 00087-13512

KPR#	Problem
163	Program hangs in infinite loop in NORTHING/EASTING not specified.

Word/80 Revid: A
Product No. 00087-13519

KPR#	Problem
266*	'PUT' forces EOL sequence to 2.

FILE/80 Revid: B
Product No. 00087-13520

KPR#	Problem
251*	If incorrect backup is used to redefine, FILE/80 does not recover.
252*	If root file disc is write-protected, new MSUS cannot be stored.
253*	Aborted search when printing reassigns printer.
254*	Files larger than 32767 records can not be created on a single disc volume.

KPR #4 Text Editing Revid: A 00085-13520

Problem — Some early copies of the text editing Pac have some bugs. These problems cause the program to enter an infinite loop. To find out if your copy is one, do the following:

```
Load "Editor"
List 2440,2440
2440 N2=N2-1 @ If P0=4*L2-3 then
Return Else P1=P1-1 @A (P1)=P5
@ Return
```

If "@ Return" fails to appear at the end, your copy needs fixing.

Work Around Solution — To fix it, proceed as follows:

```
Load "Editor"
2440 N2=N2-1 @ if P0=4*L2-3 then
Return Else P1=P1-1 @ A(P1)=P5
@ Return

Unsecure "Editor", "HP",2
Store "Editor"
Secure "Editor", "HP",2

Load "Edistr"
1170 if N2<=0 then N0, N1-1 @ M-0
@ GOTO 100
1830 lu=K0 @ T2=K2@ GOSUB 2040@
GOSUB 2030 @ if S then 1620 EL
SE 1000

Unsecure "EDITSR", "HP",2
Store "EDITSR"
Secure "EDITSR", "HP",2
```

If you get a MEM OVF error, type delete 9999, end line, and repeat the last entry.

Permanent Fix — Has been corrected in Rev. B.

KPR #16 Basic S/DATA MANIP Revid: B 00085-13508

Problem — The basic statistics and data manipulation

pac will not accept data files which it did not write itself.

Work Around Solution — To correct it, execute the following statements:

```
Load "Input"
LOADBIN "REDZER"
  860 Read#1;D(I,J)
  1020 Read#1;D(J,I)
Unsecure "Input", "HP",2
Store"INPUT"
Secure"INPUT", "HP",2
```

Permanent Fix — No fix is planned at this time.

KPR #54 VISICALC Plus Revid: A 00085-13511

Problem — In the VZBAR utility program, bar charts that do not start at zero will have incorrect heights.

Work Around Solution — To fix this problem do the following:

1. Load "VZBAR"
2. Load BIN "LINPUT"
3. Change the lines as follows:
   For tape:
   2280 for I1=0 to I-1 @ Y1=Y1+D(J,I1)
   @ next I1 @ Y1=Y1-(I1>0)*Y6

   2290 Y2=min(Y7,D(J,I)+Y1=Y6*(N3#2 or not I1)) @ IFY1-Y2<0

   Then GOSUB 2350
   2295 next J

   For Disc:

   2370 X1=J+D @ X2=X1+W2 @ Y1=MAX(0,Y6) @ I1=1 @ if N3#2 then 2290

   2380 for I1=0 to I-1 @ Y1 = Y1 + D(J, I1) @ next I1 @ Y1 = Y1-(I1 > 0)*Y6

   2390 Y2 = MIN(Y7,D(J,I)+Y1-Y6*(N3#2 or not I1)) @
4. Unsecure "VZBAR," "HP",2
5. Store "VZBAR"
6. Secure "VZBAR," "HP",2

Permanent Fix — Fixed in Revision B.

KPR #56 Waveform Analysis Revid: A 00085-13507

Problem — One can get erroneous answers under certain conditions. Example being the triangle wave on page 38 should not drop below the X-axis.

Work Around Solution — To fix the pac proceed as follows:

```
Load "WAVED"
LOADBIN "FFTBIN"
List 1960, 1970
   1960 RAD @ C1=-1 GOSUB 2020 @ GOTO 90
   1970 RAD @ if C1=-1 then 2020
Change 2020 to 2012 in both lines
Add these lines:
   2012 for J=2 to N2
   2014 R1(J)=2*R1(J) @ I1(J)=2*I1(J)
   2016 Next J
   2052 for J=2 to N2
   2054 R1(J)=R1(J)/2 @ I1(J)=I1(J)/2
   2056 Next J
Store Changes:
   Unsecure "WAVED", "HP",2
   Store "WAVED"
   Secure "WAVED", "HP",2
   Load "WAVE"
   LoadBIN "FFTBIN"
   List 1890, 1900
   1890 RAD @ C1=-1 @ GOSUB 1942 @
   GOTO 100
   1900 if C1=-1 then 1942
   1942 for J=2 to N2
   1944 R1(J)= 2*R1(J) @ I1=(J)=2*I1(J)
   1946 Next J
   1982 For J=2 to N2
   1984 R1(J)=R1(J)/2 @ I1(J)=I1(J)/2
   1986 Next J
   Unsecure "WAVE", "HP",2
   Store "WAVE"
   Secure "WAVE", "HP",2
```

Permanent Fix — Fixed in Rev. B.

KPR #61 Surveying Revid: A 00085-13512

Problem — In "transverse" programs, azimuth inputs in D.MS format with trailing zeroes cause error if "AZ" is not appended to input (see steps 9a and 11a of manual).

Work Around Solution — To correct this problem follow this procedure:

```
Load "TRAV" or "TRAVP"
1060 X6=VAL(A$)@GOSUB 1140 @ A=X
Delete 1070, 1070
Unsecure "Transverse", "HP",2
Store "TRAV" or "TRAVP"
Secure "TRAV" or "TRAVP, "HP",2
```

Permanent Fix — Fixed in Rev. B.

KPR #62 Surveying Revid: A 00085-13512

Problem — 'intersection' calculation program gives erroneous results for some bearing-distance problems. Error consists of wrong azimuth (or bearing) from base points to intersection point under some conditons.

Work Around Solution — In both tape and disc versions, follow this procedure to correct the problem:

```
Load "INRSCT"
Delete 890,890
Delete 950,950
Delete 980,1000
910 J1=30 GOSUB 980 @ S=0
960 S=1@ J1=4 @ GOSUB 980
980 if N=1 then D1=D3 @ D2=D @ GOTO 985
Else D2=D3 @ D1=D @ GOTO 995
985 I(J1,1)=I(1,1)+D1*COS(A1) @ I(J1,2)=
   I(1,2)+D1*SIN(A1)
990 A2=ATN2(I(J1,2)-I(2,2),I(J1,1)-I(2,1)))
   MOD 360 @ return
995 I(J1,1)=I(2,1)+D2*COS(A2) @ I(J1,2)=
   I(2,2)+D2*SIN(A2)
1000 A1=ATN2(I(J1,2)-I(1,2),I(J1,1)-I(1,1))
   MOD 360 @ return
Unsecure "INRSCT", "HP",2
Store "INRSCT"
Secure "INRSCT", "HP",2
```

Permanent Fix — Fixed in Rev. B

KPR #73 VISICALC Plus Revid: B 00085-13511

Problem — Specifying a global column width of 128 characters will cause the machine to hang and requires a power-on to reset the condition. I.e., the command '/GC 128' hangs the machine.

Work Around Solution — Do not specify a global column width of 128.

Permanent Fix — No fix is planned at this time.

KPR #92 AC Circuit Analysis Reivd: B 00085-13505

Problem — CAP 32 will not return tabular ratio results involving nodes numbered greater than 9. It returns the message 'RESELECT OUTPUT QUANTITIES.'

Work Around Solution — No fix available at this time.

Permanent Fix — No fix is planned at this time.

KPR #101 VISICALC Plus Revid: A 00085-13511

Problem — In the "VZPIE" program, the following may occur:

1. Labels over 15 characters long may print wrong or incomplete.
2. A hatch line is frequently missing from the lower left or lower right corner of the pie.
3. Under certain conditions, hatch 6 (solid) runs beyond the boundaries of sections which are over 50 percent of the pie.

Work Around Solution — To fix the program follow these steps:

1. Load "VZPIE"
2. LOADBIN "LINPUT"
3. Make all of the indicated changes
4. Unsecure "VZPIE", "HP",2
5. Store "VZPIE"
6. Secure "VZPIE", "HP",2

In the tape version, change the following lines to look like this:

```
1090 if H=5 then S1=11 @ C1=0
1200 V1=1 @ N=((N1=1)*10+22)*(S1+1)
1650 Z=not Z @ return
2480 GOSUB 3175 @ T$(L+1,L+2)=VAL$(C7)
3460 GOSUB 3175 @ T$(L+1,L+2)=VAL$(C7)
```

And add the following line:

```
3175 A$=A$[1,MIN(LEN(A$),15)]
```

In the disc version, change the following lines to look like this:

```
1200 if H=5 then S1=1] @ C1=0
1210 V1=1 @N=((N1=1]*10+22)*(S1+1)
1760 J=not J @ return

2590 GOSUB 3285 @ T$[L+1,L+2]=VAL$(C7)
3570 GOSUB 3285 @ T$[L+1,L+2]=VAL$(C7)
```

And add the following line:

```
3285 A$=A$[1,MIN(LEN(A$),15)]
```

Permanent Fix — Fixed in Revision B.

KPR #102 Regression Analysis Revid: A 00085-13509

Problem — The program "RESID" plots incorrect values of the standarized residuals for a polynomial regression analysis higher than the first degree.

Work Around Solution — To correct the program, follow these steps:

```
Load "RESID"
```

Type:

```
1484 if V2(J)=0 then 1490 [ENDLINE]
Unsecure "RESID", "HP",2
Store "RESID"
Secure "RESID", "HP",2
```

Permanent Fix — No fix is planned at this time.

KPR #103 General Statistics Revid: A 0085-13502

Problem — In the "TWOAOV" program there are two errors in 'IMAGE' statements that will cause the "ERROR 52:IMAGE" on line 1920 or 1940.

Work Around Solution — To correct the problem follow these steps:

Type
```
Load "TWOAOV"
List 1930, 1930
```

Change this line from:

```
1930 Image "NONADD", 3D,5DZ.D,5DZ,3DZ.5
```

to:

```
1930 Image "NONADD",3D,5DZ.D,5DZ.D,3DZ.D
```

Then type

```
List 1950, 1950
```

And change this line from:

```
1950 Image "BAL.",5D,5DZ.D,5DZ.5
```

to:

```
1950 Image "BAL.",5D,5DZ.D,5DZ.D
```

Then type:

```
Unsecure "TWOAOV","HP",2
Store "TWOAOV"
Secure "TWOAOV", "HP",2
```

Permanent Fix — No fix is planned at this time.

KPR #104 General Statistics Revid: A 00085-13502

Problem — 'TRANSLATE'ING the "pair2" program results in getting the message "error 84 excess characters"

Work Around Solution — To correct the problem type:

```
Load "Pair2"
```

Change line 1190 from:

```
1190 Print Using "4DZ.2D,4DZ.2D" T,Y
```

to:

```
1190 Print Using "4DZ.2D,4DZ.2D";T,Y
```

Then type:

```
Unsecure "Pair2", "HP",2
Store "Pair2"
Secure "Pair2", "HP",2
```

Permanent Fix — No fix is planned at this time.

KPR #105 Standard Pac Revid: A 00085-13001

Problem — When translating one of these programs: Curve, FPLOT, Timer for use with the plotter/printer ROM, the error message 'ERROR 84" excess characters' is displayed.

Work Around Solution — To correct this error, some of the program lines must be changed. To do so, follow this procedure:

1. Load the program
2. Make the necessary changes (as indicated below)
3. Type Unsecure "Program Name","HP",2
4. Type Store "Program Name"
5. Type Secure "Program Name","HP",2

In "Curve" change line 1810 from

```
1810 print using 1820 R5,M(5)
```

to:

```
1810 print using 1820;R5,M(5)
```

Change line 2150 from:

```
2150 print using "4DZ.2D,4DZ.2D" T,Y
```

to

```
2150 Print using "4DZ.2D,4DZ.2D";T,Y
```

In "FPLOT" change line 1790 from

```
1790 print using "10D.5D,10D.5D"I,F
```

to

```
1790 print using "10D.5D,10D.5D";I,F
```

In "TIMER" change line 740 from

```
740 print using "DDDD,3X,7D.4D" I,5(I)
```

to:

```
740 print using "DDDD,3X,7D.4D";I,5(I)
```

Permanent Fix — No fix is planned at this time.

KPR #106 Standard Pac Revid: A 00085-13001

Problem — In the "Teach" program line 2770 may have an incorrect branch that can cause the program to enter an infinite loop.

Work Around Solution — To confirm whether the program is correct or not, type:

```
Load "Teach"
list 2770,2770
```

The line should look like:

```
2770 if N4=N5 or N2=0 then 2830
```

If it is not, correct the line then type:

```
Unsecure "Teach", "HP",2
Store "Teach"
Secure "Teach","HP",2
```

Permanent Fix — No fix is planned at this time.

KPR #107 VISICALC Plus Revid: A 00085-13511

Problem — See KRP #73

Work Around Solution — See KPR #73

Permanent Fix — No fix is planned at this time.

KPR #111 VISICALC Plus Revid: B 00085-13511

Problem — In the "VZBAR" program, all fractional Y-axis labels are plotted in scientific notation or else are rounded to whole numbers. This can cause very confusing Y-axes. For example, if the Y-axis goes from 0 to 2 by .1 the labels will be:

```
0,1E-001,2E-001,...,9E-1,1,1,1,1,1,2,2,2,2,2,2
```

Work Around Solution — To remedy this, execute a "FXD" N1 in calculator mode after the plotter address is prompted for and before pressing [cont] after preparing the plotter. To determine N1, the parameter for 'FXD', simply determines how many digits to the right of the decimal place you wish to see (for additional information, see the discussion of 'FXD' in the plotter/printer manual.

Permanent Fix — No fix is planned at this time.

KPR #114 VISICALC Plus Revid: A 00085-13511

Problem — Same as KPR #111

Work Around Solution — Same as KPR #111

Permanent Fix — No fix is planned at this time.

KPR #118 Basic 5/Data MANIP Revid: A 00085-13508

Problem — When running the Pac under this configuration:

1. HP-83 or 85
2. 82900 series disc drive (82901M or 82902M)
3. 82905 printer (A or B)

and the external printer option is specified. The computer will give the message:

Error 125 on line 880: volume
and the disc will not function.

Work Around Solution – To prevent this from occurring, a program line must be added to the 'START' program. Here are the steps to follow:

1. Load "START"
2. LOADBIN "REDZER"
3. Type: 875 wait 3000
4. Unsecure "START", "HP",2
5. Store "START"
6. Secure "START", "HP",2

Permanent Fix – No fix is planned at this time

KPR #142 Data Communications Revid: A 00085-13521

Problem – When 'H/SHAKE' is chosen in the 'SETFRAME' menu and the handshake is changed to ENQ/ACK, control register 2 of the serial card is set to 0 causing DTR (data terminal ready) to drop to low. At no point in the code does this ever get set high again. This may cause some modems to refuse to communicate.

Work Around Solution – No work around is available at this time.

Permanent Fix – Fixed in Revision B.

KPR #145 VISICALC Revid: A 00087-13511

Problem – In the "VZLINE" program when editing the axes for a line chart, if the X-axis units are not numeric, the old units are displayed but erased by the prompt for the new units.

Work Around Solution – To correct this, do the following:

1. Load "VZLINE"
2. LOAFBIN "REDZERG"
3. In lines 1355, 1385, 1415, 1435, 1465 and 1495 change the sequence ... etc.) " @ LINPUT A$ to ... etc.) "; @ LINPUT A$
4. Unsecure "VZLINE", "HP",2
5. Store "VZLINE"
6. Secure "VZLINE", "HP",2

Permanent Fix – No fix is planned at this time.

KPR #146 Data Communications Revid: A 00085-13521

Problem – "CDISP A$(1)" or "CWRITE A$(1)" or "CPRINT A$(1)", where A$(1) is undefined, appears to dump system memory.

Work Around Solution – Do not use string arrays with these commands.

Permanent Fix – No fix is planned at this time.

KPR #150 VISICALC Revid: A 00087-13511

Problem – In the "VZCALC" binary, the maximum length of printed lines is 140 characters, even though the HP-87 is capable of printing 220 character lines.

Work Around Solution – There is no work around solution at this time.

Permanent Fix – No fix is planned at this time.

KPR #153 VISICALC Revid: A 00087-13511

Problem – In the VISICALC binary (ver. 112.11) program, if a very large worksheet is stored and then loaded, each time it is loaded, the worksheet may be missing some data.

Work Around Solution – Fixed in Rev. B.

Permanent Fix – Fixed in Rev. B.

KPR #154 VISICALC Revid: A 00087-13511

Problem – In the VISICALC binary program (VZCALC version 112.11), if a very large worksheet is created (by very large, greater than 32767 cells or 262136 bytes), when a /SS command is issued, the error message 'INVALID PARAMETER' is given, and the file will not be stored.

Work Around Solution – Fixed in Rev. B.

Permanent Fix –Fixed in Rev. B.

KPR #155 Data Communications Revid: B 00085-13521

Problem – 'ON KBD' in IPBIN and IPBIN87 resets system clock and increments data when key is held down and caused to repeat.

Work Around Solution – No work around is available at this time.

Permanent Fix – Fixed in Rev. C.

KPR #161 Surveying Revid: B 00085-13512

Problem – When entering new points with the edit program, pressing endline in response to prompts for northing and easting input will cause the program to enter an infinite loop around the point type input statement.

Work Around Solution – Some value for northing and easting must always be entered.

Permanent Fix – No fix is planned at this time.

KPR #163 Surveying Pac Revid: B 00087-13512

Problem – Same as KPR #161

Work Around Solution – Same as KPR #161

Permanent Fix – Same as KPR #161

KPR #174 Basic S/DATA MANIP Revid: B 00087-13508

Problem – In the HP-87 version, when the programs compute the size for the file "DATA", it does not compute it correctly all the time, and creates a file too small to put all of the data into. This will result in 'ERROR 72: record' at different points in the program.

Work Around Solution – To correct the programs, follow this procedure:

1. 'LOAD' the program
2. Make indicated changes
3. Unsecure "PROG", "HP",2
4. Store "PROG"
5. Secure 'PROG", "HP",2

In "START" line 2400 should read
2400 REC1=REC1+CEIL(REC1/300*3)+500 ....
In "Input" line 1423 should read exactly as line 2400 in "START".
In "EDIT" line 1535 should read exactly as line 2400 in "START".
In "TRANS1" line 1490 should read exactly as line 2400 in "START".
In "STORE" line 1010 should read exactly as line 2400 in "START".

Permanent Fix – No fix is planned at this time.

KPR #175 Basic S/DATA MANIP Revid: B 00087-13508

Problem – In the HP-87 version of the PAC, an error 69: random overflow will occur if the amount of data is very large. This happens because of the attempt to maintain HP-85 data compatibility, and happens whenever the file "DATA" is written to.

Work Around Solution – To fix this problem, some of the programs in the PAC must be modified. To do this follow these steps:

1. Load the program
2. Make the indicated changes
3. Unsecure the program like this:
   Unsecure "<PROG NAME>", "HP",2
4. Store the program
5. Secure the program like this:
   Secure "<PROG NAME>", "HP",2

Make the following changes in the programs.

In the program "START" change line 2460 from
2460 PRINT# 2,1 ;.... to
2460 PRINT #2 ;...
In other words, omit the "1". Also change line 880 from:
880 READ # 1,1 ;... to
880 Read# 1;...
In program "INPUT" line 1440 must be changed as line 2460 in "START".

In program "STORE" line 1060 must be changed as line 2460 in "START".

In program "EDIT" line 1565 must be changed as line 2460 in "START"

In program "TRANS1" line 1520 must be changed as line 2460 in "START".

In program "ORDER" line 2460 must be changed as line 880 in "START".

This will make the data no longer compatible with the HP-85, but since the problems only surface

when data amounts are larger than the HP-85 is capable of handling, there is no need for concern.

Permanent Fix – No fix is planned at this time.

KPR #186 VISICALC Revid: A 00087-13511

Problem – VISICALC does not work correctly if more than 512k bytes of memory are plugged into the machine. Symptoms include erroneous cell count and inability to store a worksheet.

Work Around Solution – Avoid having more than 512k of memory in the machine when running VISICALC.

Permanent Fix – No fix is planned at this time.

KPR #187 VISICALC Revid: B 00087-13511

Problem – Same as KPR #186

Work Around Solution – Same as KPR #186

Permanent Fix – Same as KPR #186

KPR #191 General Statistics Revid: A 00085-13502

Problem – In the "DISTR" program, normal distribution will be computed incorrectly if the mean is not 0.

Work Around Solution – To fix the program, do the following:

```
Load "DISTR"
Type    160 TB=1-(XLM9)
        1965 X=ABS (X-M9)/59
Unsecure "DISTR", "HP",2
Store "DISTR"
Secure "DISTR", "HP",2
```

Permanent Fix – This is fixed by following the above.

KPR #192 VISICALC Plus Revid: B 00085-13511

Problem – It is possible to generate illegal cell references using the replicate command of VISICALC. e.g., if you enter

+BK][endline]

in cell A1 then replicate it relatively to cell B1 like this

/R [endline] B1 [endline] R

Then the formula in cell B1 will now read +BL1 which is illegal. The effect is that the worksheet can now be stored, but cannot be re-loaded.

Work Around Solution – No work around is available at this time.

Permanent Fix – No fix is planned at this time.

KPR #193 VISICALC Plus Revid: A 00085-13511

Problem – Same as KPR #192

Work Around Solution – Same as KPR #192

Permanent Fix – Same as KPR #192

KPR #194 VISICALC Plus Revid: C 00085-13511

Problem – Same as KPR #192

Work Around Solution – Same as KPR #192

Permanent Fix – Same as KPR #192

KPR #196 VISICALC Revid: B 00087-13511

Problem – Same as KPR #192

Work Around Solution – Same as KPR #192

Permanent Fix – Same as KPR #192

KPR #197 Regression Analysis Revid: A 00087-13509

Problem – The polynomial regression option ignores subfiles even after prompting for which subfile to use.

Work Around Solution – No work around is available at this time.

Permanent Fix – No fix is planned at this time.

KPR #198 AC Circuit Analysis Revid: A 00087-13505

Problem – If, when loading or sorting a circuit, the user gives 'FNAME:MSUS' in response to the 'file name' prompt (as required on other pacs), the program accepts it, then prompts for a volume label or MSUS, then hangs up in a loop displaying the message "illegal MSUS or volume label". At this point the machine must be reset and the pac reloaded, this losing all circuit data.

Work Around Solution – Exercise caution when loading or storing.

Permanent Fix – No fix is planned at this time.

KPR #237 AC Circuit Analysis Revid: A 00087-13505

Problem – Storing a circuit onto a full disc produces the system error message 'MISSING LINE on LINE 2783;' program execution halts, no recovery.

Work Around Solutuion – Fixed in Rev. C.

Permanent Fix – Fixed in Rev. C.

KPR #238 AC Circuit Analysis Revid: A 00087-13505

Problem – Purging a file on a write-protected disc produces the message '"FILE NAME" is NONEXISTANT'. The message is inaccurate (inappropriate) and misspelled.

Work Around Solution – Fixed in Rev. C.

Permanent Fix – Fixed in Rev. C.

KPR #239 AC Circuit Analysis Revid: A 00087-13505

Problem – If another disc with volume label 'CAP' is on-line (on a lower drive #) the system error message 'ERROR 67 on line 454149' appears; program execution halts, and there is no recovery.

Work Around Solution – No work around at this time – the error occurs between chain – no error recovery provided.

Permanent Fix – No fix is planned at this time.

KPR #240 AC Circuit Analysis Revid: A 00087-13505

Problem – If the program disc does not have the volume label 'CAP' (e.g., if someone makes a copy), running the program 'CAP' produces the system error message 'error 133 on line 290;' program execution halts – no recovery. (This problem is also produced if the program disc is not online after loading CAP).

Work Around Solution – Put volume label 'CAP' on the disc, and re-run program.

Permanent Fix – Fixed in Rev. C.

KPR #241 AC Circuit Analysis Revid: A 00087-13505

Problem – When storing a circuit, if a volume label that is not on-line is entered, the following is displayed:

```
File name "FILE NAME" already exists
Select option: overwrite old file
               Rename problem
               Cancel store
```

This is an inappropriate message; furthermore, if overwrite is chosen, the system error message 'error 133 on line 2789' is displayed; program execution halts – no recovery is possible. (The only safe response at this point is cancel store!)

Work Around Solution – Fixed in Rev. C.

Permanent Fix – Fixed in Rev. C.

KPR #242 AC Circuit Analysis Revid: A 00087-13505

Problem – If purging, recalling, or storing a file and a comma is mistakenly used in the volume label in place of the decimal point, inappropriate messages will be displayed with choices that lead to program halts – no recovery is possible.

Work Around Solution – Fixed in Rev. C.

Permanent Fix – Fixed in Rev. C.

KPR #249 VISICALC Plus Revid: B 00087-13511

Problem – VISICALC will not accept logical functions such as sum in conjunction with DIV or MOD unless the logical function is surrounded by parenthesis, like: (SUM(A1,A3)) MOD 12. However, this will cause problems when the worksheet is loaded. In some cases, the system may have to be reset.

Work Around Solution – Functions of this type must be entered like: (SUM(A1,A3)+0) MOD 12.

Permanent Fix – No fix is planned at this time.

KPR #251 Name:FILE/80 Revid: A 00087-13520

Problem - If backup files have been made and then used with 'REDEFINE' to redefine the data file, those backup files are not updated in the definition process. If one attempts another redefine using those same backup files, the program hangs up and reset must be used to exit. This process corrupts the database. Recovery may be used to restore the file.

Work Around Solution - No work around is available at this time.

Permanent Fix - No fix is planned at this time.

KPR #252 FILE/80 Revid: A 00087-13520

Problem - If a data disc is write protected and changes are made to the default MSUS identifiers at LOGON, the program hangs when it attempts to write the new defaults to the disc.

Work Around Solution - The disc may be pulled out, the write protect removed, the disc reinserted and [continue] selected to return to normal operation.

Permanent Fix - Will be fixed in Rev. B.

KPR #253 FILE/80 Revid: A 00087-13520

Problem -

1. Power on the HP-86/87 (printer defaults to the CRT).
2. Load and run FILE/80.
3. Print a report or letter with external printer but abort first search.
4. New menu is given-press any key save continue (specs, edit, output, or exit.) *The form feed/escape sequence is sent to the CRT.

Work Around Solution - Set printer address before first search.

Permanent Fix - Will be fixed in Rev. B.

KPR #254 FILE/80 Revid: A 00087-13520

Problem - Files with more than 32767 records on any single disc volume (like a Winchester disc) cannot be created. In addition, no indication will be given that the file was not created. This is due to a limitation in the HP-86/87. It is possible to create a file up to 65000 records if the file resides on more than one volume.

Work Around Solution - No work around is available at this time.

Permanent Fix - No fix is planned at this time.

KPR #255 VISICALC Plus Revid: A 00087-13511

Problem -

1. Try to store a worksheet on a full disc (/SS).
2. Initialize a new disc (/SI).
3. Answer 'N' to prompt.
4. Backspace out error 82. Prog. is now hung-up.

Work Around Solution -

1. Execute /SM and reassign mass storage.
2. Execute /SI to initialize disc.
3. Execute /SS to store file.

Permanent Fix - No fix is planned at this time.

KPR #256 AC Circuit Analysis Revid: A 00087-13505

Problem - If the program disc is not on-line when 'OUT SEL' is selected, (which may happen since the user will probably load his circuit from a data file), the chain is attempted and the following is displayed:

Warning 7 on line 2706: null data
File name already exists
Select option: overwirte old file

Work Around Solution - No work around is available at this time.

Permanent Fix - Fixed in Rev. C.

KPR #257 AC Circuit Analysis Revid: B 00087-13505

Problem - Same as KPR #256

Work Around Solution - Same as KPR #256

Permanent Fix - Same as KPR #256

KPR #258 AC Circuit Analysis Revid: B 00087-13505

Problem - When attempting to store a circuit to a write-protected disc, the pac returns the message "file already exists" and prompts for a new name. This is misleading. Unlike the HP-85 error messages, the HP-87 version error messages are not explained anywhere in the documentation.

Work Around Solution - Make sure disc is not write protected before attempting to store circuits.

Permanent Fix - Fixed in Rev. C.

KPR #259 AC Circuit Analysis Revid: B 00087-13405

Problem - HP-87 CAP will not correctly perform calculations involving branch current or power. It returns either the message 'SINGULAR" or 'error 55' on line 12508 subscript' depending upon which branch or node of the circuit is specified.

Work Around Solution - Fixed in Rev. C.

Permanent Fix - Fixed in Rev. C.

KPR #260 AC Circuit Analysis Revid: B 00087-13505

Problem - Same as KPR #237

Work Around Solution - Same as KPR #237

Permanent Fix - Same as KPR #237

KPR #261 AC Circuit Analysis Revid: B 00087-13505

Problem - Same as KPR #238

Work Around Solution - Same as KPR #238

Permanent Fix - No fix is planned at this time.

KPR #262 AC Circuit Analysis Revid: B 00087-13505

Problem - Same as KPR #239

Work Around Solution - Same as KPR #239

Permanent Fix - Same as KPR #239

KPR #263 AC Circuit Analysis Revid: B 00087-13505

Problem - Same as KPR #240

Work Around Solution - Same as KPR #240

Permanent Fix - Same as KPR #240

KPR #264 AC Circuit Analysis Revid: B 00087-13505

Problem - Same as KPR #241

Work Around Solution - Same as KPR #241

Permanent Fix - Same as KPR #241

KPR #265 AC Circuit Analysis Revid: B 00087-13505

Problem - Same as KPR #242

Work Around Solution - Same as KPR #242

Permanent Fix - Same as KPR #242

KPR #266 Work/80 Revid: A 00087-13519

Problem - 'PUT' forces I/O register 16 to "2" on card addressed.

Work Around Solution - No work around is available at this time.

Permanent Fix - Work/80 uses a 'SET I/O' command to test for a valid printer address. Since the formatter uses register 16 (to do underlining and over-striking), the editor used this register for the test. Work/80 Rev. B (editor) will set register 23 to 0 to test for a valid printer address.

KPR #267 VISICALC Plus Revid: A 00087-13511

Problem - Same as KPR #193

Work Around Solution - Same as KPR #193

Permanent Fix - Same as KPR #193

KPR #270 Data Communication Revid: A 00085-13521

Problem - Same as KPR #155

Work Around Solution - Same as KPR #155

Permanent Fix - Same as KPR #155

END LINE