HEWLETT **PACKARD**

HEWLETT-PACKARD COMPANY
LOGIC SYSTEMS DIVISION

HP 64000
Logic Development
System

SYSTEM RELEASE BULLETIN

HP STARS II

64000 SOFTWARE RELEASE BULLETIN

Issue 88.06

JUNE , 1988

This document supersedes all previously dated SSBs.

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READER COMMENT SHEET

STARS II SRB (STARS B)

Issue _____._____ DATE ____/____/____

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Is this bulletin technically accurate?   Yes [ ] No [ ]   (If no, explain under Comments, below.)

Are the concepts and wording easy to   Yes [ ] No [ ]   (If no, explain under Comments, below.)
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Is the format of this bulletin convenient in size, Yes [ ] No [ ]   (If no, explain or suggest improvements under
arrangement and readability?   Comments, below.)

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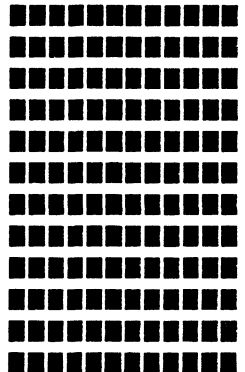NECESSARY
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P R E F A C E

This Software Release Bulletin documents all fixes and enhancements that
are incorporated in the new release identified on the cover page. The
SRB is provided as a benefit of Hewlett-Packard's Account Management
Support, Response Center Support, and Software Materials Subscription.

Of the five sections contained in the SRB (not including the PREFACE),
only the last section which contains the detailed reports has page num-
bers. These are referenced by the product, report number and keyword
indexes in order to direct the user to a particular area or to an in-
dividual detailed report. The five sections are described below.

SOFTWARE RELEASE CONTENTS

This section lists the product names, numbers and update/fix levels of
all products contained in this release. Products that have changed, or
are new are denoted with an asterisk preceding the product name.

PRODUCT INDEX

Each unique product name/number has an entry listing the page number
where the detailed report for that product begins.

REPORT NUMBER INDEX

This index is a sequential list of the individual report numbers with
the corresponding page number where the report can be found.

KEYWORD INDEX

This index is sorted by product name, keyword, product number (including
the update/fix level) and by report number in that order. In addition
to the sort items, each entry has a brief description (one line) and the
page number where the detailed report can be found. Note that a given
report can be listed more than once in this section if it has more than
one keyword assigned to it.

DETAILED REPORTS

Each report contains all the available information relevant to the
problem being corrected or the enhancement being implemented.

Software release contents

Product name		Product number	uu.ff
*64000-UX OP-ENV	300	64801S004	02.10
*64180 ASSEMB	300	64864S004	01.01
*68000 BBA	300	64380S004	01.00
*68000C AXLS COMP	300	64902S004	02.00
*68008 EMULATION	300	64244S004	01.20
*68010 EMUL 12.5M	300	64245S004	01.20
*68020 ASSEMB	300	64870S004	01.20
*68020 BBA	300	64381S004	01.10
*68020C AXLS COMP	300	64903S004	02.00
*68HC11 EMUL		64265	01.01
*68HC11 EMUL	300	64265S004	01.10
*78310/12 ASSEMB	300	64866S004	01.00
*80286B ASSEMB	300	64859S004	01.40
*8085 EMULATION	300	64203S004	01.30
*F9450 EMUL	300	64286S004	01.10
*HOST SOFTWARE /	VAX	64882	02.40
*HOST SOFTWARE /	300	64883	01.20
*HOST SOFTWARE /	500	64880	01.90
*HP TEAMWORK	300	64711S004	02.30
*P1750 EMUL		64288	01.00
*P1750 EMUL	300	64288S004	01.00
*PROM PROGRAMMER	300	64501S004	01.40
*RS-232 TRANSFER	300	64885	01.40
*RS-232 TRANSFER	500	64884	01.40
*RS-232 TRANSFER	VAX	64886	01.60
*SOFTKEY EDITOR	300	64790S004	02.10
*SOFTKEY EDITOR	500	64790S001	02.10
*TMS 32020/25 ASMB	300	64867S004	01.00
*USER INTERFACE	300	64808S004	02.30

Product index

Report number index

Keyword index

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64801S004	01.80	msinit interferes with prom programmer user	D200085407	1
	64801S004	01.80	Failure to indicate 64155B PV test failure in final PV test report	D200086553	1
	64801S004	01.80	msinit (1) removes configured meas syst on discless clusters.	D200089441	1
	64801S004	01.80	Some products may have been built with a defective HPIB device library.	D200089615	1

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64902S004	01.00	Compiler won't default uninitialized constants to 0 with -u option.	D200089599	2

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64244S004	01.00	"Enable emulator DMA transfers" default should be "no"	D200079400	6
	64244S004	01.00	Absolute code part user,part emul, will be overwritten at boundary.	D200080192	3
	64244S004	01.00	pwd truncates the /net/system portion of the path when RFA'ed to system.	D200080622	3
	64244S004	01.00	Using Emulation across RFA can give incomplete symbol information	D200080929	3
	64244S004	01.00	Relative path names (e.g. ./cmd) should not search PATH	D200081380	4
	64244S004	01.00	Processes sometimes left running after parent has stopped.	D200082206	4
	64244S004	01.00	Memory breaks during stepping are not detected	D200082750	4
	64244S004	01.00	Allow file loading without symbol database update.	D200082958	6
	64244S004	01.00	Loading a trace file from a different processor may cause core dump	D200083212	5
	64244S004	01.00	Provide a "display trace default" type of command.	D200083477	7
	64244S004	01.00	Need a home up/down for symbol displays	D200083758	7
	64244S004	01.00	Add status line logging	D200084277	7
	64244S004	01.00	Add "display module_name" command	D200084533	7
	64244S004	01.00	Add "set" command for shell variables (like in pmon)	D200084798	8
	64244S004	01.00	Tracelist symbols dissappear.	D200086009	5
	64244S004	01.00	Using simio, then continuing , may not be possible	D200086363	5

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64245S004	01.00	"Enable emulator DMA transfers" default should be "no"	D200079384	12
	64245S004	01.00	Absolute code part user,part emul, will be overwritten at boundary.	D200080200	9
	64245S004	01.00	pwd truncates the /net/system portion of the path when RFA'ed to system.	D200080630	9
	64245S004	01.00	Using Emulation across RFA can give incomplete symbol information	D200080937	9
	64245S004	01.00	Relative path names (e.g. ./cmd) should not search PATH	D200081398	10
	64245S004	01.00	Processes sometimes left running after parent has stopped.	D200082214	10
	64245S004	01.00	Memory breaks during stepping are not detected	D200082768	10
	64245S004	01.00	Allow file loading without symbol database update.	D200082966	12
	64245S004	01.00	Loading a trace file from a different processor may cause core dump	D200083220	11
	64245S004	01.00	Provide a "display trace default" type of command.	D200083485	12
	64245S004	01.00	Need a home up/down for symbol displays	D200083766	13
	64245S004	01.00	Add status line logging	D200084285	13
	64245S004	01.00	Add "display module_name" command	D200084541	13
	64245S004	01.00	Add "set" command for shell variables (like in pmon)	D200084806	13
	64245S004	01.00	Tracelist symbols dissappear.	D200086017	11
	64245S004	01.00	Using simio, then continuing , may not be possible	D200086371	11

Keyword index

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64870S004	01.00	Display local symbols erroneously requires a ".s" suffix.	5000219998	15
	64870S004	01.00	Relocatables cause problems with new ld68k	D200079442	15
	64870S004	01.00	C Symbols longer than 31 characters cause ld68k core dump	D200079459	16
	64870S004	01.00	Public Symbols causing Section Mismatch have wrong value	D200079467	17
	64870S004	01.00	FSGLMUL.X FPm,FPn and FSFLDIV.X FPm, FPM not accepted	D200079475	18
	64870S004	01.00	Symbol information for first function in module is missing.	D200082412	18
	64870S004	01.00	Unpredictable behavior when executing your program.	D200082677	19
	64870S004	01.00	Ld68k core dumps sometimes tieh long command lines.	D200082685	20
	64870S004	01.00	Sometimes C functions are not recognized as functions.	D200082693	20
	64870S004	01.00	# include files with executable code causes problems debugging.	D200082701	22
	64870S004	01.00	as68k and ld68k core dump when out of virtual memory.	D200082719	23
	64870S004	01.10	Fsincos instruction not working properly.	1650037317	15

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64381S004	01.00	If #include file is in multiple -I<dirs>, BBACPP may use the wrong one.	D200087494	24
	64381S004	01.00	BBA does not support function prototyping	D200087924	24

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64903S004	01.00	Compiler won't default uninitialized constants to 0 with -u option.	D200089607	25

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64265	01.00	Breakpoints not always recognized when breaking to monitor repetitively.	5000243931	26
	64265	01.00	Registers corrupted when you continue emulation while uP in background	5000243964	26
	64265	01.00	The SPSR reg. is not protected on a "display int_reg protected" command.	D200082644	27
	64265	01.00	"trace only status postword" results in a blank display.	D200082651	27

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64265S004	01.00	PV Fails on a 9000/350.	D200087056	28

Keyword	Product number	uu.ff	Description	Report #	page
********none********	64203S004	01.00	Allow file loading without symbol database update.	D200082826	31
	64203S004	01.20	Processes sometimes left running after parent has stopped.	D200082040	29
	64203S004	01.20	Loading a trace file from a different processor may cause core dump	D200083089	29
	64203S004	01.20	Provide a "display trace default" type of command.	D200083345	31
	64203S004	01.20	Need a home up/down for symbol displays	D200083626	31
	64203S004	01.20	Add status line logging	D200084145	31
	64203S004	01.20	Add "display module_name" command	D200084400	32
	64203S004	01.20	Add "set" command for shell variables (like in pmon)	D200084665	32
	64203S004	01.20	"modify memory" command results in an "end release".	D200084905	29

Keyword index

- -0

Keyword	Product number	uu.ff Description	Report #	page
********none******** 64203S004		01.20 Tracelist symbols dissappear.	D200085860	30
	64203S004	01.20 Using simio, then continuing , may not be possible	D200086256	30
	64203S004	01.20 "end" softkey after HP-IB error does not clear command line	D200088211	30

- -9

Keyword	Product number	uu.ff Description	Report #	page
********none******** 64286S004		01.00 Unable to use software breakpoints in user memory	5000269076	33
	64286S004	01.00 Address ranging feature on trace analysis does not work properly	5000269365	33
	64286S004	01.00 Inconsistent I/O display with PI	5000269373	37
	64286S004	01.00 F9450 INVERSE ASSEMBLER MAY READ ONE EXTRA BYTE OF DATA UNNECESSARILY	5000271361	33
	64286S004	01.00 Measurement System end_released when terminal cannot be initialized	D200069583	33
	64286S004	01.00 Incorrect breakpoint behaviour on continuing emulation.	D200072504	34
	64286S004	01.00 pwd truncates the /net/system portion of the path when RFA'ed to system.	D200080705	34
	64286S004	01.00 Using Emulation across RFA can give incomplete symbol information	D200081000	34
	64286S004	01.00 The Inter-Module-Bus trigger signal latches when set to drive & receive	D200081950	35
	64286S004	01.00 Processes sometimes left running after parent has stopped.	D200082297	35
	64286S004	01.00 Allow file loading without symbol database update.	D200083048	38
	64286S004	01.00 Loading a trace file from a different processor may cause core dump	D200083303	36
	64286S004	01.00 Provide a "display trace default" type of command.	D200083568	38
	64286S004	01.00 Need a home up/down for symbol displays	D200083840	38
	64286S004	01.00 Add status line logging	D200084368	38
	64286S004	01.00 Add "display module_name" command	D200084624	39
	64286S004	01.00 Add "set" command for shell variables (like in pmon)	D200084889	39
	64286S004	01.00 Executing software breakpoints in target memory causes emulation to hang	D200085027	36
	64286S004	01.00 Tracelist symbols dissappear.	D200086082	37
	64286S004	01.00 Memory breaks during steps are not detected	D200088161	37
	64286S004	01.00 Software breakpoint in target memory will hang system.	D200088468	37
	64286S004	01.00 PIR register display is added to the HP64000-UX emulation environment	D200088534	37
	64286S004	01.10 Modifying I/O ports other than Programmed I/O does not work.	D200081661	35

- -0

Keyword	Product number	uu.ff Description	Report #	page
********none******** 64883		01.10 "CDF Customize" should be added to handle HP-UX 6.0 Series 300 clusters	D200089680	40
	64883	01.10 transfer can be assigned a very poor run-time priority on a series 350	D200089698	40
TRANSFER	64883	01.00 Wrong error message when missing hpib driver.	D200087296	40

- -P

Keyword	Product number	uu.ff Description	Report #	page
********none******** 64711S004		01.00 Doing a ^I out of twk and then typing in twk causes errors.	D200077602	41
	64711S004	02.20 load_dd failures.	5000243899	41
	64711S004	02.20 Does not support user defined key mappings	5000244939	42
SFNONE	64711S004	02.20 Error message "UNUSUAL DB_ERROR" occurs during file save.	5000266288	41

- -R

Keyword	Product number	uu.ff Description	Report #	page
********none******** 64501S004		01.10 Core dump when using bad configueration file	D200077503	43

- -R

Keyword	Product number	uu.ff Description	Report #	page
********none********	64501S004	01.30 prom programmer won't accept addreses greater than 07FFFFFFFH	5000220806	43
	64501S004	01.30 Processes sometimes left running after parent has stopped.	D200082362	43

- -S

Keyword	Product number	uu.ff Description	Report #	page
********none********	64885	01.30 "CDF customize" is missing /usr/hp64000/etc/newconfig/rcdevice file.	D200089672	44
TRANSFER	64885	01.00 Wrong error message when missing hpib driver.	D200089482	44

- -S

Keyword	Product number	uu.ff Description	Report #	page
TRANSFER	64886	00.00 If HOST disc file system is full, transfer ignores failed write requests	D200042028	45
	64886	01.50 Message output from transfer may brk in two lines when reass. to sys$out	D200085464	45

- -O

Keyword	Product number	uu.ff Description	Report #	page
********none********	64790S004	01.00 pwd truncates the /net/system portion of the path when RFA'ed to system.	D200080143	46
	64790S004	01.00 Expand shell variable on command line.	D200081992	47
	64790S004	01.10 Editor does not generate listfiles correctly.	1650034389	46
EDITOR	64790S004	01.10 "del char" softkey corrupts display with vt220 but does operation	5000231555	46

- -O

Keyword	Product number	uu.ff Description	Report #	page
********none********	64790S001	01.10 Very slow 'replace' with wildcards over several lines.	D200076570	48
	64790S001	02.00 Purge command will not work if $HOME/.recover/xxxx is > 40 characters.	5000242867	48
ENHANCEMENT	64790S001	01.10 Suggested method for improving sk's speed.	1650025643	48

- -S

Keyword	Product number	uu.ff Description	Report #	page
********none********	64808S004	02.10 An change that makes "asm_list" the default mode of compiler operation.	D200089557	49

Number: D200085407 Product: 64000-UX OP-ENV 300 64801S004   01.80

One-line description:
msinit interferes with prom programmer user

Problem:
Running msinit while the prom programmer is being used will result in
the prom programming aborting.

Signed off 04/29/88 in release A02.10

Number: D200086553 Product: 64000-UX OP-ENV 300 64801S004   01.80

One-line description:
Failure to indicate 64155B PV test failure in final PV test report

Signed off 04/29/88 in release A02.10

Number: D200089441 Product: 64000-UX OP-ENV 300 64801S004   01.80

One-line description:
msinit (1) removes configured meas syst on discless clusters.

Problem:
The reconfig64 script (run by init64120 run by msinit) is used to
create/remove context-dependent files (CDF) on discless clusters.
If a discless node gets removed, this script is suppose to remove
any configured measurement systems and corresponding exectibles
associated with the node. However, this script treats discless
nodes that are turned-off as if they were removed and subsequently
removes any configured systems for those nodes. This script should
not remove any files when a discless node is only powered-down.

Signed off 04/29/88 in release A02.10

Number: D200089615 Product: 64000-UX OP-ENV 300 64801S004   01.80

One-line description:
Some products may have been built with a defective HPIB device library.

Problem:
Some products were linked with a defective version of the
HPIB device driver library that is used to communicate with
the 64120 cardcage. The defect caused unexpected HPIB I/O
failures.

Signed off 04/29/88 in release A02.10

Number: D200089599 Product: 68000C AXLS COMP 300 64902S004   01.00

One-line description:
Compiler won't default uninitialized constants to 0 with -u option.

Problem:
Declarations of the form:
const int i;
should be default initialized to 0, but are not initialized
when -u option is given.

Signed off 04/29/88 in release A02.00

Number: D200080192 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Absolute code part user,part emul, will be overwritten at boundary.

Signed off 02/29/88 in release A01.20

Number: D200080622 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
pwd truncates the /net/system portion of the path when RFA'ed to system.

Problem:
When using the HP 64000-UX products and netnaming across the LAN
to another system, such as a compile server, the HP-UX command
"pwd" which is used by the HP64000-UX product to tell what the
local directory is, truncates the "/net/system" part of the path.

This is a HP-UX operating system defect. It is not a defect in
the HP 64000-UX application software. As soon as this defect is
fixed in HP-UX, it will work correctly when using the HP 64000-UX
applications.

Signed off 02/29/88 in release A01.20

Number: D200080929 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Using Emulation across RFA can give incomplete symbol information

Problem:
Accessing symbol data in a remote file across RFA may result
in incomplete symbol information being available. This
problem is a result of read() calls being interrupted during
file access over RFA.

This problem can also affect reading absolute data into memory as
well.

Temporary solution:
If this problem occurs while loading absolute data, attempting
to reload the file again may work.

There are two possible answers to this problem. The first is to
move the .Y file to the machine running the emulator.

The second solution is to move the program object to the machine
which is running the emulator. This can be done using the get64
program. When you load the emulator, a new .Y file will be created.

Signed off 02/29/88 in release A01.20

Number: D200081380 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Relative path names (e.g. ./cmd) should not search PATH

Problem:
A new feature was added to the core feature set to search for command
files using the users PATH variable for a search path. A defect has
been introduced such that specifying a relative path with a command
file still has the command file looked for in the search path.

Relative path names should override the PATH variable like they do in a
standard shell. Only names not containing any '/' should be searched
for using PATH. All others (especially ./name) should be used relative
to the current directory.

Temporary solution:
Specify command files with full path names if the application is unable
to find your command file.

Signed off 02/29/88 in release A01.20

Number: D200082206 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Processes sometimes left running after parent has stopped.

Problem:
Sometimes, when the parent process to a measurement system is killed
some of the measurement systems processes are left running. Please
change the behaviour of the products so that these processes die
nicely.

Temporary solution:
If the tty associated with the process is a pty, then you can
release the processes by
        cat < ptyxx
This causes the pending output to be flushed, and the processes will die
naturally.

Signed off 02/29/88 in release A01.20

Number: D200082750 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Memory breaks during stepping are not detected

Problem:
Memory breaks (write to ROM, etc.) which occur while stepping will not
be noted on the status line.

Temporary solution:

No workaround at this time.

Signed off 02/29/88 in release A01.20

Number: D200083212 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Loading a trace file from a different processor may cause core dump

Problem:
If a trace file is created with "store trace" on a processor that allows
multiple analysis modes with some mode other than the default, then is
loaded by a processor with only one mode, a core dump will result. A
good example is storing an execution mode trace on the dequeued 68000,
then trying to load the trace on the non-dequeued 68000.

Temporary solution:
Do not attempt to load a trace file for a mode that is not supported.

Signed off 02/29/88 in release A01.20

Number: D200086009 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Tracelist symbols dissappear.

Problem:
The symbols will not be displayed in the trace list if the
following commands are executed:

1. display trace absolute symbols on
2. end   ; end locks the emulation session
3. <system name> <module name>   ; continues the emulation session
4. display trace

The symbols will not be displayed even if you try to re-execute step
number 1.

Temporary solution:
Perform the following steps after executing steps 1-4 listed in the
problem text.

5. display trace mnemonic
6. display trace absolute

Signed off 02/29/88 in release A01.20

Number: D200086363 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Using simio, then continuing , may not be possible

Problem:

If simio is used extensively, then the user attempts to end and reenter

emulation, reentry will not be possible, and there will be a continuous
error message stating that the 64120 will not accept a download. This
is a problem with emulation core, and exists in all emulators.

Signed off 02/29/88 in release A01.20

Number: D200079400 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
"Enable emulator DMA transfers" default should be "no"

Problem:
Message should mention 64155B card when "not restricted to real
time runs" configuration question is asked.

Not restricted to real time

     If your are using the HP 64155B Memory Conntrol Card, the
     emulator will only be halted during emulation memory or
     register accesses. Other Memory Control Cards will halt the
     processor approximately every 500 ms to detect running in
     monitor.

Restricted to real time

     Processor is halted to check running in monitor only after
     break. Software or reset entry into the monitor is not
     detected. User memory or register display allowed only while
     in monitor. Emulation memory display allowed while in
     monitor or reset. Run from <ADDRESS> will cause break into
     monitor.

Temporary solution:
If running out of circuit, modify the configuration to turn off
DMA transfers.

Signed off 02/29/88 in release A01.20

Number: D200082958 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Allow file loading without symbol database update.

Problem:
Would like to be able to load a file without changing the symbol
database.

Temporary solution:
No workaround at this time.

Signed off 02/29/88 in release A01.20

Number: D200083477 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Provide a "display trace default" type of command.

Problem:
Provide a "display trace default" type command to display the current
trace with default trace display settings.

Temporary solution:
No workaround.

Signed off 02/29/88 in release A01.20

Number: D200083758 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Need a home up/down for symbol displays

Problem:
Add home up/down capability to symbol displays.

Temporary solution:
None at this time.

Signed off 02/29/88 in release A01.20

Number: D200084277 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Add status line logging

Problem:
Add ability to log status line information to a file or buffer so the
user could go back and check for messages that may have flashed by too
quickly to be read.

Temporary solution:
None at this time.

Signed off 02/29/88 in release A01.20

Number: D200084533 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Add "display module_name" command

Problem:
Add "display module_name" command so the user can easily tell which of
several of the same processor he is running at any given time.

Temporary solution:

- -8

None at this time.

Signed off 02/29/88 in release A01.20

Number: D200084798 Product: 68008 EMULATION 300 64244S004   01.00

One-line description:
Add "set" command for shell variables (like in pmon)

Problem:
Since the softkey package now supports shell variable expansion, add a
"set" command to emulation for creating shell variables. This feature
already exists in pmon.

Temporary solution:
Set shell variables in the shell or in pmon before entering emulation.

Signed off 02/29/88 in release A01.20

- -8

Number: D200080200 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Absolute code part user,part emul, will be overwritten at boundary.

Signed off 02/29/88 in release A01.20

Number: D200080630 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
pwd truncates the /net/system portion of the path when RFA'ed to system.

Problem:
When using the HP 64000-UX products and netnaming across the LAN
to another system, such as a compile server, the HP-UX command
"pwd" which is used by the HP64000-UX product to tell what the
local directory is, truncates the "/net/system" part of the path.

This is a HP-UX operating system defect. It is not a defect in
the HP 64000-UX application software. As soon as this defect is
fixed in HP-UX, it will work correctly when using the HP 64000-UX
applications.

Signed off 02/29/88 in release A01.20

Number: D200080937 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Using Emulation across RFA can give incomplete symbol information

Problem:
Accessing symbol data in a remote file across RFA may result
in incomplete symbol information being available. This
problem is a result of read() calls being interrupted during
file access over RFA.

This problem can also affect reading absolute data into memory as
well.

Temporary solution:
If this problem occurs while loading absolute data, attempting
to reload the file again may work.

There are two possible answers to this problem. The first is to
move the .Y file to the machine running the emulator.

The second solution is to move the program object to the machine
which is running the emulator. This can be done using the get64
program. When you load the emulator, a new .Y file will be created.

Signed off 02/29/88 in release A01.20

Number: D200081398 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Relative path names (e.g. ./cmd) should not search PATH

Problem:
A new feature was added to the core feature set to search for command
files using the users PATH variable for a search path. A defect has
been introduced such that specifying a relative path with a command
file still has the command file looked for in the search path.

Relative path names should override the PATH variable like they do in a
standard shell. Only names not containing any '/' should be searched
for using PATH. All others (especially ./name) should be used relative
to the current directory.

Temporary solution:
Specify command files with full path names if the application is unable
to find your command file.

Signed off 02/29/88 in release A01.20

Number: D200082214 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Processes sometimes left running after parent has stopped.

Problem:
Sometimes, when the parent process to a measurement system is killed
some of the measurement systems processes are left running.   Please
change the behaviour of the products so that these processes die
nicely.

Temporary solution:
If the tty associated with the process is a pty, then you can
release the processes by
          cat < ptyxx
This causes the pending output to be flushed, and the processes will die
naturally.

Signed off 02/29/88 in release A01.20

Number: D200082768 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Memory breaks during stepping are not detected

Problem:
Memory breaks (write to ROM, etc.) which occur while stepping will not
be noted on the status line.

Temporary solution:

No workaround at this time.

Signed off 02/29/88 in release A01.20

Number: D200083220 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Loading a trace file from a different processor may cause core dump

Problem:
If a trace file is created with "store trace" on a processor that allows
multiple analysis modes with some mode other than the default, then is
loaded by a processor with only one mode, a core dump will result. A
good example is storing an execution mode trace on the dequeued 68000,
then trying to load the trace on the non-dequeued 68000.

                      •

Temporary solution:
Do not attempt to load a trace file for a mode that is not supported.

Signed off 02/29/88 in release A01.20

Number: D200086017 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Tracelist symbols dissappear.

Problem:
The symbols will not be displayed in the trace list if the
following commands are executed:

1. display trace absolute symbols on
2. end   ; end locks the emulation session
3. <system name> <module name> ; continues the emulation session
4. display trace

The symbols will not be displayed even if you try to re-execute step
number 1.

Temporary solution:
Perform the following steps after executing steps 1-4 listed in the
problem text.

5. display trace mnemonic
6. display trace absolute   .

Signed off 02/29/88 in release A01.20

Number: D200086371 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Using simio, then continuing , may not be possible

Problem:

If simio is used extensively, then the user attempts to end and reenter

emulation, reentry will not be possible, and there will be a continuous
error message stating that the 64120 will not accept a download. This
is a problem with emulation core, and exists in all emulators.

Signed off 02/29/88 in release A01.20

Number: D200079384 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
"Enable emulator DMA transfers" default should be "no"

Problem:
Default answer to "Enable emulator DMA transfers" configuration
question should be "no". If the probe is not connected to a
target system and happens to be lying on or near a source of
electrical noise, spurious signals may be generated which the
emulator will attempt to service unless DMA is turned off.

Since the intended use of the default questions is to allow out
of circuit emulation without modification to the configuration,
the default should be "no".

Temporary solution:
If running out of circuit, modify the configuration to turn off
DMA transfers.

Signed off 02/29/88 in release A01.20

Number: D200082966 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Allow file loading without symbol database update.

Problem:
Would like to be able to load a file without changing the symbol
database.

Temporary solution:
No workaround at this time.

Signed off 02/29/88 in release A01.20

Number: D200083485 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Provide a "display trace default" type of command.

Problem:
Provide a "display trace default" type command to display the current
trace with default trace display settings.

Temporary solution:
No workaround.

Signed off 02/29/88 in release A01.20

Number: D200083766 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Need a home up/down for symbol displays

Problem:
Add home up/down capability to symbol displays.

Temporary solution:
None at this time.

Signed off 02/29/88 in release A01.20

Number: D200084285 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Add status line logging

Problem:
Add ability to log status line information to a file or buffer so the
user could go back and check for messages that may have flashed by too
quickly to be read.

Temporary solution:
None at this time.

Signed off 02/29/88 in release A01.20

Number: D200084541 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Add "display module_name" command

Problem:
Add "display module_name" command so the user can easily tell which of
several of the same processor he is running at any given time.

Temporary solution:
None at this time.

Signed off 02/29/88 in release A01.20

Number: D200084806 Product: 68010 EMUL 12.5M 300 64245S004   01.00

One-line description:
Add "set" command for shell variables (like in pmon)

Problem:
Since the softkey package now supports shell variable expansion, add a
"set" command to emulation for creating shell variables. This feature
already exists in pmon.

Temporary solution:
Set shell variables in the shell or in pmon before entering emulation.

Signed off 02/29/88 in release A01.20

Number: 1650037317 Product: 68020 ASSEMB   300 64870S004   01.10

One-line description:
Fsincos instruction not working properly.

Problem:
Attempting to verify this problem I found the assembler
reported: This combination of operands is illegal.

        FSINCOS   FP0,FP1:FP2

Temporary solution:
You can use the FSIN and FCOS as two separate instructions.
This is not as effecient as the single FSINCOS instruction.

Signed off 03/25/88 in release A01.20

Number: 5000219998 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
Display local symbols erroneously requires a ".s" suffix.

Problem:
   Emulation commands requiring file names for local symbols
erroneously require a ".s" suffix, regardless of the actual
file extension. Example:

A local file mon_68020.S is part of the absolute file.
After loading the absolute file, the command "display local_symbols_in
mon_68020.S:" is issued. In response, the message "symbol not found"
is displayed. If you replace mon_68020.S with mon_68020.s, the
symbols are shown. Similarly, filenames without extensions require
that a ".s" be appended for proper operation.

Signed off 03/25/88 in release A01.20

Number: D200079442 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
Relocatables cause problems with new ld68k

Problem:
Symptoms: When linking, undefined symbol errors occur which did not
        occur with version 1.00 tools. For example,

        < ld68k >
        ERROR: (320) UNRESOLVED EXTERNALS:

        SYMBOL   MODULE

        dat.1   v1a

        Also, when using HP 64000-UX Emulators and Analysis Tools,
        local symbols in files assembled with Version 1.00 of the
        assembler are inaccessible. For example,

        ERROR: symbol not found _____

     when doing a command like the following.

        display local_symbols_in v1b.s:

Description: The version 1.00 tools have two features which are
        incompatible with newer versions of the product.

        First, in version 1.00, the -h option, in both as68k and
        ld68k, has a side effect on symbols. The -h option causes
        symbols to be transformed in the following way. Periods (.),
        dollar signs ($), and question marks (?) are changed to
        underbar (_) and symbols are truncated to 15 characters
        maximum. These transformations allowed external references to
        match definitions even when the symbols were not spelled
        identically.

        Version 1.10 tools no longer have this side effect. Undefined
        symbols sometimes occur because of this behavior change.

        Second, the format of the IEEE relocatable changed between
        version 1.00 and version 1.10. Consequently, the link_sym
        file, produced by ld68k, contains an incorrect filename
        symbol. The HP 64000 tools are unable to access local symbols
        as a result.

        The code from version 1.00 relocatables is still correct and
        usable when linked with the version 1.10 tools.

        This defect will not be corrected in future versions.

Temporary solution:
        Reassemble all your modules with the new version 1.10
        assembler before linking. If, for some reason, you cannot do
        this, you may still link the old relocatables using the new

        ld68k. Correct undefined symbol errors by defining new
        symbols as necessary. Local symbols from the version 1.00
        modules will be inaccessible.

Signed off 03/25/88 in release A01.20

Number: D200079459 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
C Symbols longer than 31 characters cause ld68k core dump

Problem:
Symptoms: When linking modules produced by either cc68020 (64903S -
        Advanced C Cross Compiler for Motorola 68020) or the
        recommended Microtec compiler mcc68k, ld68k terminates with
        the following message.

        Memory Fault - Core Dumped

Description: If, in C, one writes an identifier longer than 31
             characters, the debug information written by the compiler
             eventually causes ld68k to abort. For example,

```
void a_very_very_long_c_function_name()
{
    return;
}
```

Temporary solution:
             Shorten the identifiers in your C program. Alternatively,
             you may suppress the generation of compiler debug information
             by specifying the -s option with cc68020 or by omitting the -d
             option with mcc68k.

Signed off 03/25/88 in release A01.20

Number: D200079467 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
Public Symbols causing Section Mismatch have wrong value

Problem:
Symptoms: Unpredictable behavior when executing your program
          accompanied by the following warning message when the program
          was linked.

```
< ld68k >
WARNING: (324) Section Mismatch Between Symbol Def and Ref x1
```

          In addition, for the problem to occur, the symbol x1 must be
          defined using the PUBLIC command in the loader command file.

Description: The XREF directive allows you to specify the section in
             which you expect an external symbol to be defined. For
             example,

```
XREF  Sect1:x1 ; x1 will be defined in section Sect1
```

             The "Section Mismatch" warning occurs when x1 is actually
             defined in some other section.

             If, in addition, the symbol x1 is defined by a PUBLIC command,
             the value of symbol x1 is unpredictable. References to x1
             access unpredictable locations and program behavior is
             unpredictable.

Temporary solution:
             Eliminate the section name from the XREF directive. This
             will cause the linker warning to disappear. Alternatively,
             you can define the symbol in an assembly module rather than a
             PUBLIC command. This also eliminates the problem.

Signed off 03/25/88 in release A01.20

Number: D200079475 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
FSGLMUL.X FPm,FPn and FSFLDIV.X FPm, FPM not accepted

Problem:
Symptoms: When assembling, the following error message occurs.

```
< as68k : qf00537.s >
8     00000018 4E71 4E71 4E71            fsglmul.x         fp0,fp1
 ** ERROR:(588) This combination of operands is not valid for th
is instruction.
```

Description: The assembler erroneously disallows the .X size on the
             FSGLMUL and FSGLDIV instructions when the source operand is a
             floating point register.

Temporary solution:
             Recode the instruction using the .S. This produces the
             correct (i.e. .X) instruction code. For example,

```
FSGLMUL.S    FP0,FP1 ; same as FSGLMUL.X FPm
FSGLDIV.S    FP0,FP1 ; same as FSGLDIV.X FPm
```

Signed off 03/25/88 in release A01.20

Number: D200082412 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
Symbol information for first function in module is missing.

Problem:
If you compile a source file with several functions (2 or more) and
display global symbols while in emulation, the first function is
not listed in the listing of procedures.

```
func1()
{

int i;

i = 5;
func2(&i);
}

func2(p1)
int *p1;
{
*p1 = 3;
}
```

Temporary solution:
Place a dummy function at the top of your file.

```
dummy()
```

```
{
}
main()
{
;..
}

func2()
{
}
```

Signed off 04/29/88 in release A01.20

Number: D200082677 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
Unpredictable behavior when executing your program.

Problem:
Symptoms: Unpredictable behavior when executing your program.

    Also, when using HP 64000 emulators and analysis tool, certain
    global and local symbols are inaccessible. For example,

        ERROR: symbol not found _____

        display local_symbols_in mod1.s:

    The IEEE absolute, HP absolute, HP link_sym, and/or Motorola
    S-Record files produced by ld68k are sometimes incomplete.
    Code from certain modules is omitted from the absolute files.
    Symbols from the same modules are also omitted from the
    symbolic parts of the files.

    The loader listing gives no indication of any problem.

Description: This problem occurs when all three of the following
        conditions occur.

    1. There is a LOAD command for a library file and the
        library file resolves no external references.

    2. There are additional LOAD commands which load non-
        library modules following the LOAD command described in
        number 1.

    3. There are no external references to the non-library
        modules described in number two. In this case, these
        non-library modules are omitted from the absolute and
        symbolic output files. The load map erroneously
        indicates that they are loaded.

    For example,

    LOAD lib1.a * Unnecessary LOAD which resolves no references

                                - -8

    LOAD mod1.o * Code/symbols from mod1 are omitted from output

    Also, when using the AxLS compiler with the -l (specify
    library) and -k (specify linker command file) options.

        cc68020 file.c -k cmd -l x

    When cc68020 invokes ld68k, the LOAD command for library
    libx.a will precede any LOAD commands in file cmd. Thus, if
    libx.a resolves no references, it is possible that some
    ordinary files LOADed in cmd might be omitted.

Temporary solution:
        There are two ways to avoid the problem.

    1. Remove the unnecessary library LOAD command. Since the
        library resolves no references, it need not be loaded.

    2. Arrange the LOAD commands so that all libraries are
        loaded after all non-library modules.

Signed off 03/25/88 in release A01.20

Number: D200082685 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
Ld68k core dumps sometimes tieh long command lines.

Problem:
Symptoms: Ld68k terminates with the following message.

        Memory Fault - Core Dumped

        Cc68020 terminates with the following message.

        cc68020: Fatal error in /usr/hp64000/bin/ld68k

Description: Ld68k behaves badly when invoked with many arguments on
        the command line. It may core dump.

        Specifically, if ld68k is invoked with more than 148
        characters of arguments, problems occur.

Temporary solution:
        Shorten the command line by moving object files into LOAD
        commands in a linker command file.

Signed off 03/25/88 in release A01.20

Number: D200082693 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
Sometimes C functions are not recognized as functions.

Problem:
Symptoms: This problem occurs with modules produced by the AxLS C
        compilers (cc68020 and cc68000). When using HP 64000

                                - -8

emulators and analysis tools to debug C programs, sometimes
the instrument fails to recognize a function. For example,

```
int func1()
{
        return 1;
}
int func2()
{
        return 2;
}
#pragma SECTION prog=0x1000
int func3()
{
        return 3;
}
```

The command "display global_symbols" produces the following.

```
Global symbols in er
Procedure symbols
Procedure name    Address range    Return    Segment    Offset
--------------------------------------------------------------
_func2         000008-    00000F    00000E    PROG        000008

Static symbols
Symbol name       Address range Contents    Segment    Offset
--------------------------------------------------------------
_func1                           000000      7001     PROG        000000
_func3                           001000      7003
```

Notice that _func1 and _func3 are not listed under the
procedure heading although they are listed under the static
heading as ordinary symbols.

Description: Sometimes as68k fails to write an "E-label" to the
        asmb_sym file. The E-label is used by the emulators to
        recognize the end of a C function. As68k fails to write the
        E-label in two situations.

        1.   Sometimes the first function in a module fails to get an
             E-label.

        2.   Functions that are ORGed at an absolute address always
             fail to get an E-label.

Temporary solution:
        The first situation can be avoided by inserting a dummy
        function at the beginning of a module.

        For the second situation, one must use the "#pragma SECTION"
        to make the function relocatable. One may then locate the
        function using the loader.

Signed off 03/25/88 in release A01.20

Number: D200082701 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
include files with executable code causes problems debugging.

Problem:
Symptoms: This problem occurs when debugging modules produced by the
        AxLS C compilers (cc68020 or cc68000) or the recommended
        Microtec C compiler (mcc68k).

        When using HP 64000-UX emulators and analysis tools, when
        loading a program, one sees the following warning.

        Warning: duplicate symbol "#   3" in file "/users/me/myfile.c"

        Also, an HP 64000-UX emulation session may simply terminate
        when doing a command like the following.

        display trace symbols on

Description: A problem occurs when one uses the preprocessor #include
        directive to add executable statements to your C program. For
        example,

```
file.c                      inc.h
======                      =====
int i;                      i += 2;
int f()                     printf("%d",i);
{
#include "inc.h"
        return i;
}
```

        When assembling the code produced by these files, as68k, when
        writing the asmb_sym file, erroneously writes line number
        symbols for lines in the include file. These line number
        symbols may duplicate line number symbols in the parent file.
        They also confuse the HP 64000 instruments when they try to do
        source line referencing.

Temporary solution:
        The problem may be avoided in two ways.

        Suppress the production of line number symbols. With cc68020,
        use the strip (-s) option. With mcc68k, omit the debug (-d)
        option.

        Do not use include files which contain executable statements
        in your C programs.

Signed off 03/25/88 in release A01.20

Number: D200082719 Product: 68020 ASSEMB   300 64870S004   01.00

One-line description:
as68k and ld68k core dump when out of virtual memory.

Problem:
Symptoms: When using as68k to assemble a huge source file, one may see
          the message,

          Memory Fault - Core Dumped

          When using ld68k to link together a huge amount of object
          code, one may see the message,

          Memory Fault - Core Dumped

Description: On an HP-UX system, several thing limit the maximum
             amount of virtual memory available to a process. These
             include the amount of swap space allocated on the disc and
             several system parameters. For more information, see
             config(1M) and the HP-UX System Administrator Manual.

             As68k uses virtual memory approximately in proportion to the
             size of the input source file. When assembling huge source
             files, it may exceed virtual memory limits and core dump.

             Ld68k uses virtual memory approximately in proportion to the
             size of the input relocatable files. When linking huge
             amounts of code, it may exceed virtual memory limits and core
             dump.
Temporary solution:
             One may increase virtual memory limits on the HP-UX
             system. For the loader case, this is the only workaround.
             See the HP-UX System Administrator Manual.

             For the assembler case, one may divide the input source file
             into two or more pieces.

Signed off 03/25/88 in release A01.20

Number: D200087494 Product: 68020 BBA   300 64381S004   01.00

One-line description:
If #include file is in multiple -I<dirs>, BBACPP may use the wrong one.

Problem:
Text:
   If #include file in multiple -I<dirs>, bbacpp may use the wrong
   one. If a #include file is in multiple directories and the
   directories are specified with the -I options on the command line,
   and the significant -I's are the first two or last two options
   on the command line then bbacpp68020 will swap the order of
   searching for the file.

Temporary solution:
Fix:
   On the command line, force the first two options to be -D options.
   For example, if you normally have:
        cc68020 -Iadir -Ibdir file.c
   use the following:
        cc68020 -DjUnk1 -DjUnk2 -Iadir -Ibdir file.c

   This will not affect your compilation as long as jUnk1 and jUnk2 are
   not tokens in your program; if they are, choose other names that are n
ot!

Signed off 04/14/88 in release A01.10

Number: D200087924 Product: 68020 BBA   300 64381S004   01.00

One-line description:
BBA does not support function prototyping

Problem:
Text:
   68020 BBA does not support function prototyping

As of April 1 the AxLS 68020 compiler will support function
prototyping. Version 1.1 of the 68020 BBA will support it.

Temporary solution:
As of April 1 the AxLS 68020 compiler will support function
prototyping. Version 1.1 of the 68020 BBA will support it.

Signed off 04/14/88 in release A01.10

Number: D200089607   Product: 68020C AXLS COMP 300 64903S004   01.00

One-line description:
Compiler won't default uninitialized constants to 0 with -u option.

Problem:
Declarations of the form:
const int i;
should be default initialized to 0, but are not initialized
when -u option is given.

Signed off 04/29/88 in release A02.00

Number: 5000243931   Product: 68HC11 EMUL   64265   01.00

One-line description:
Breakpoints not always recognized when breaking to monitor repetitively.

Problem:
68HC11 emulator may not recognize breakpoints that occur when
internal memory is being displayed repetitively. The emulator
appears to break into background when the breakpoint address
is hit, but returns to the foreground, without any indication a
breakpoint was reached. The status of the breakpoint remains
pending, and subsequent occurances of the breakpoint address
may or may not cause a valid break.

Temporary solution:
Displaying the internal processor RAM will cause a break into the
monitor. If you wish to display this memory repetitively, you
will cause continuous breaks into the monitor.

One workaround that will eliminate any breaks into the monitor (and
will hopefully make breakpoints work correctly) is to relocate the
internal RAM to some other 4 KByte boundary (see the manual) and to
remap the original location of the internal RAM to "emulation RAM".
Reading emulation RAM does not require a break into the background
monitor.

Signed off 02/29/88 in release A01.01

Number: 5000243964 Product: 68HC11 EMUL   64265   01.00

One-line description:
Registers corrupted when you continue emulation while uP in background

Problem:
68HC11 emulator may not retain correct register values if emulation
session is left in background mode, and then continued. The
customer leaves the emulator in background, does an end, and may or
may not enter a different measurement system. When returning to the
emulation session in a continuing mode, in which the emulator is
NOT reconfigured, a display of registers may display different values
than those when the emulator was left in background.

Temporary solution:
Link the following code with your user code.

    GLOBAL EM_LOOP

EM_LOOP BRA $

Before ending out of the emulation session from a "break in background"
state, note the current value of the PC and then execute a "run from
EM_LOOP" command. This will leave the emulator in a "Running" state
from which a safe end into meas_sys, some other emulator, or the
64000 monitor will be possible.

When reentering the emulator, execute the following.

break
modify register PC to <OLD_VAL>
.
.
.
This will restore the processor to its previous state.

Signed off 02/29/88 in release A01.01

Number: D200082644 Product: 68HC11 EMUL   64265   01.00

One-line description:
The SPSR reg. is not protected on a "display int_reg protected" command.

Problem:
When performing the command "display int_reg protected", the SPSR
register is not protected. This register will be read and the next
subsequent write to the SPDR or the SPCR will clear one of the three
status bits in this register.

Temporary solution:
None at this time.

Signed off 02/29/88 in release A01.01

Number: D200082651 Product: 68HC11 EMUL   64265   01.00

One-line description:
"trace only status postword" results in a blank display.

Problem:
When in the "execution_data" analysis mode, a "trace only status
postword" command will result in a blank trace display.

Temporary solution:
None at this time.

Signed off 02/29/88 in release A01.01

Number: D200087056 Product: 68HC11 EMUL   300 64265S004   01.00

One-line description:
PV Fails on a 9000/350.

Problem:
Random failures occur while using PV.

Either the tests will fail randomly, or an
Aries I/O error will occur.

Signed off 04/29/88 in release A01.10

Number: D200082040 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
Processes sometimes left running after parent has stopped.

Problem:
Sometimes, when the parent process to a measurement system is killed
some of the measurement systems processes are left running. Please
change the behaviour of the products so that these processes die
nicely.

Temporary solution:
If the tty associated with the process is a pty, then you can
release the processes by
            cat < ptyxx
This causes the pending output to be flushed, and the processes will die
naturally.

Signed off 04/14/88 in release A01.30

Number: D200083089 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
Loading a trace file from a different processor may cause core dump

Problem:
If a trace file is created with "store trace" on a processor that allows
multiple analysis modes with some mode other than the default, then is
loaded by a processor with only one mode, a core dump will result. A
good example is storing an execution mode trace on the dequeued 68000,
then trying to load the trace on the non-dequeued 68000.

Temporary solution:
Do not attempt to load a trace file for a mode that is not supported.

Signed off 04/14/88 in release A01.30

Number: D200084905 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
"modify memory" command results in an "end release".

Problem:
The "Modify Memory" command results in an "end release".

Signed off 04/14/88 in release A01.30

Number: D200085860 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
Tracelist symbols dissappear.

Problem:
The symbols will not be displayed in the trace list if the
following commands are executed:

1. display trace absolute symbols on
2. end   ; end locks the emulation session
3. <system name> <module name>   ; continues the emulation session
4. display trace

The symbols will not be displayed even if you try to re-execute step
number 1.

Temporary solution:
Perform the following steps after executing steps 1-4 listed in the
problem text.

5. display trace mnemonic
6. display trace absolute

Signed off 04/14/88 in release A01.30

Number: D200086256 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
Using simio, then continuing , may not be possible

Problem:

If simio is used extensively, then the user attempts to end and reenter
emulation, reentry will not be possible, and there will be a continuous
error message stating that the 64120 will not accept a download. This
is a problem with emulation core, and exists in all emulators.

Signed off 04/14/88 in release A01.30

Number; D200088211 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
"end" softkey after HP-IB error does not clear command line

Problem:
If there is an HP-IB error and the "end" softkey appears, the command
line will not be cleared on any keystroke like it normally is.
In addition there have been instances where NO keystroke would work
and the "end" softkey was inoperable, nothing could be typed on the
command line. The exit was to kill the process from another terminal.
This problem exists for all HP64000-UX emulators built with
/lsd/p2/cmd/emul/gencore.

Signed off 04/14/88 in release A01.30

Number: D200082826 Product: 8085 EMULATION   300 64203S004   01.00

One-line description:
Allow file loading without symbol database update.

Problem:
Would like to be able to load a file without changing the symbol
database.

Temporary solution:
No workaround at this time.

Signed off 04/14/88 in release A01.30

Number: D200083345 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
Provide a "display trace default" type of command.

Problem:
Provide a "display trace default" type command to display the current
trace with default trace display settings.

Temporary solution:
No workaround.

Signed off 04/14/88 in release A01.30

Number: D200083626 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
Need a home up/down for symbol displays

Problem:
Add home up/down capability to symbol displays.

Temporary solution:
None at this time.

Signed off 04/14/88 in release A01.30

Number: D200084145 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
Add status line logging

Problem:
Add ability to log status line information to a file or buffer so the
user could go back and check for messages that may have flashed by too
quickly to be read.

Temporary solution:

None at this time.

Signed off 04/14/88 in release A01.30

Number: D200084400 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
Add "display module_name" command

Problem:
Add "display module_name" command so the user can easily tell which of
several of the same processor he is running at any given time.

Temporary solution:
None at this time.

Signed off 04/14/88 in release A01.30

Number: D200084665 Product: 8085 EMULATION   300 64203S004   01.20

One-line description:
Add "set" command for shell variables (like in pmon)

Problem:
Since the softkey package now supports shell variable expansion, add a
"set" command to emulation for creating shell variables. This feature
already exists in pmon.

Temporary solution:
Set shell variables in the shell or in pmon before entering emulation.

Signed off 04/14/88 in release A01.30

Number: 5000269076 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Unable to use software breakpoints in user memory

Problem:
The software breakpoint problem has been verified while running
out of target memory.   A fix has been implemented, and is
currently going through regression tests.   The next F9450
emulation software release will incorporate this fix.

Temporary solution:
There are two temporary solutions available - (1) restrict software
breakpoint usage to emulation memory only, (2) modify emulation
monitor program and utilizes the hardware break routine in place
of the software breakpoints.   The second solution will provide
an entry into the emulation monitor program. The user must display
the PC register to find out which software breakpoint is been
detected and appropriately inactivate it and continue to execute
out of user program.   The exact modifications to the F9450
emulation monitor can be obtained through your local SE.

Signed off 04/29/88 in release A01.10

Number: 5000269365 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Address ranging feature on trace analysis does not work properly

Signed off 04/29/88 in release A01.10

Number: 5000271361 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
F9450 INVERSE ASSEMBLER MAY READ ONE EXTRA BYTE OF DATA UNNECESSARILY

Problem:
The F9450 Inverse Assembler may erroneously read in one extra
byte of information while executing program branching instructions.

Signed off 04/29/88 in release A01.10

Number: D200069583 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Measurement System end_released when terminal cannot be initialized

Problem:
A measurement system will be end_released, resulting in loss of
data, when a non-supported terminal is used to enter a currently
locked measurement system. This problem will arise if the TERM
environment variable is not set to a value that is supported by
64000-UX. This may happen when logging in to a system over a
port that is not hard-wired (modem, LAN vt, etc.) where the
system prompts you for the Terminal type, which sets the TERM
variable.

- -9

Temporary solution:
Make sure that the TERM variable is set to a type of terminal
that is supported with 64000-UX. This can be verified by typing
"echo $TERM".

Signed off 04/29/88 in release A01.10

Number: D200072504 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Incorrect breakpoint behaviour on continuing emulation.

Problem:
When using software breakpoints, and doing the following sequence,
emulation does not behave as expected.

run LOOP
modify software_breakpoints set LOOP
breaks into monitor, displays breakpoint and clears breakpoint
run
end   locked
return to emulation
modify software_breakpoints set LOOP
breaks into monitor, but does not display or clear breakpoint
at second iteration, things return to normal.

Signed off 04/29/88 in release A01.10

Number: D200080705 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
pwd truncates the /net/system portion of the path when RFA'ed to system.

Problem:
When using the HP 64000-UX products and netunaming across the LAN
to another system, such as a compile server, the HP-UX command
"pwd" which is used by the HP64000-UX product to tell what the
local directory is, truncates the "/net/system" part of the path.

This is a HP-UX operating system defect. It is not a defect in
the HP 64000-UX application software. As soon as this defect is
fixed in HP-UX, it will work correctly when using the HP 64000-UX
applications.

Signed off 04/29/88 in release A01.10

Number: D200081000 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Using Emulation across RFA can give incomplete symbol information

Problem:
Accessing symbol data in a remote file across RFA may result
in incomplete symbol information being available. This
problem is a result of read() calls being interrupted during
file access over RFA.

- -9

This problem can also affect reading absolute data into memory as well.

Temporary solution:
If this problem occurs while loading absolute data, attempting
to reload the file again may work.

There are two possible answers to this problem. The first is to
move the .Y file to the machine running the emulator.

The second solution is to move the program object to the machine
which is running the emulator. This can be done using the get64
program. When you load the emulator, a new .Y file will be created.

Signed off 04/29/88 in release A01.10

Number: D200081661 Product: F9450 EMUL   300 64286S004   01.10

One-line description:
Modifying I/O ports other than Programmed I/O does not work.

Problem:
Modifying I/O ports other than those specified in the 1750A standard
for programmed I/O are mapped to the programmed I/O locations.

Example: modify io_port 2045h to 1234h
         I/O port 0045h would be modified

Temporary solution:
No workaround at this time.

Signed off 04/29/88 in release A01.10

Number: D200081950 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
The Inter-Module-Bus trigger signal latches when set to drive & receive

Problem:
When two emulators are set to drive and receive trigger, after the
trigger signal is driven once over the IMB, the trigger signal latches.
Subsequent measurements trigger immediately since the trigger signal on
the IMB is still latched from the previous measurement.

Temporary solution:
No workaround at this time.

Signed off 04/29/88 in release A01.10

Number: D200082297 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Processes sometimes left running after parent has stopped.

Problem:

Sometimes, when the parent process to a measurement system is killed
some of the measurement systems processes are left running.   Please
change the behaviour of the products so that these processes die
nicely.

Temporary solution:
If the tty associated with the process is a pty, then you can
release the processes by
          cat < ptyxx
This causes the pending output to be flushed, and the processes will die
naturally.

Signed off 04/29/88 in release A01.10

Number: D200083303 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Loading a trace file from a different processor may cause core dump

Problem:
If a trace file is created with "store trace" on a processor that allows
multiple analysis modes with some mode other than the default, then is
loaded by a processor with only one mode, a core dump will result. A
good example is storing an execution mode trace on the dequeued 68000,
then trying to load the trace on the non-dequeued 68000.

Temporary solution:
Do not attempt to load a trace file for a mode that is not supported.

Signed off 04/29/88 in release A01.10

Number: D200085027 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Executing software breakpoints in target memory causes emulation to hang

Problem:
When a software breakpoint that is set in target memory is executed,
the emulation session hangs in an infinite loop. This causes the
keyboard and all emulation functions to cease operation.

Temporary solution:
Do not use software breakpoints in target memory. If you need to
use software breakpoints, remap that area of memory to emulation
memory.

Signed off 04/29/88 in release A01.10

Number: D200086082 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Tracelist symbols dissappear.

Problem:
The symbols will not be displayed in the trace list if the
following commands are executed:

1. display trace absolute symbols on
2. end   ; end locks the emulation session
3. <system name> <module name> ; continues the emulation session
4. display trace

The symbols will not be displayed even if you try to re-execute step
number 1.

Temporary solution:
Perform the following steps after executing steps 1-4 listed in the
problem text.

5. display trace mnemonic
6. display trace absolute

Signed off 04/29/88 in release A01.10

Number: D200088161 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Memory breaks during steps are not detected

Signed off 04/29/88 in release A01.10

Number: D200088468 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Software breakpoint in target memory will hang system.

Problem:
A software breakpoint set in target memory will cause the system to
hang.

Signed off 04/29/88 in release A01.10

Number: D200088534 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
PIR register display is added to the HP64000-UX emulation environment

Signed off 04/29/88 in release A01.10

Number: 5000269373 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Inconsistent I/O display with PI

Signed off 04/29/88 in release A01.10

- -9

Number: D200083048 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Allow file loading without symbol database update.

Problem:
Would like to be able to load a file without changing the symbol
database.

Temporary solution:
No workaround at this time.

Signed off 04/29/88 in release A01.10

Number: D200083568 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Provide a "display trace default" type of command.

Problem:
Provide a "display trace default" type command to display the current
trace with default trace display settings.

Temporary solution:
No workaround.

Signed off 04/29/88 in release A01.10

Number: D200083840 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Need a home up/down for symbol displays

Problem:
Add home up/down capability to symbol displays.

Temporary solution:
None at this time.

Signed off 04/29/88 in release A01.10

Number: D200084368 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Add status line logging

Problem:
Add ability to log status line information to a file or buffer so the
user could go back and check for messages that may have flashed by too
quickly to be read.

- -9

Temporary solution:
None at this time.

Signed off 04/29/88 in release A01.10

Number: D200084624 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Add "display module_name" command

Problem:
Add "display module_name" command so the user can easily tell which of
several of the same processor he is running at any given time.

Temporary solution:
None at this time.

Signed off 04/29/88 in release A01.10

Number: D200084889 Product: F9450 EMUL   300 64286S004   01.00

One-line description:
Add "set" command for shell variables (like in pmon)

Problem:
Since the softkey package now supports shell variable expansion, add a
"set" command to emulation for creating shell variables. This feature
already exists in pmon.

Temporary solution:
Set shell variables in the shell or in pmon before entering emulation.

Signed off 04/29/88 in release A01.10

Number: D200087296 Product: HOST SOFTWARE / 300 64883   01.00

Keywords: TRANSFER

One-line description:
Wrong error message when missing hpib driver.

Problem:
Missing hpib driver in hpux operating system causes an incorrect
error message from csib.

Temporary solution:
No temporary solution at this time.

Signed off 04/29/88 in release A01.20

Number: D200089698 Product: HOST SOFTWARE / 300 64883   01.10

One-line description:
transfer can be assigned a very poor run-time priority on a series 350

Problem:
Transfer(1) can on 5.5 or 6.0 be assigned a run-time priority of 245 or
greater causing a transfer to effectly stop running until the system
becomes almost idle.

This problem has been seen to occur on a moderately loaded
hp9000 series 350. Fix via rtprio() to transfer has been implemented to
control the priority.

Signed off 04/29/88 in release A01.20

Number: D200089680 Product: HOST SOFTWARE / 300 64883   01.10

One-line description:
"CDF Customize" should be added to handle HP-UX 6.0 Series 300 clusters

Enhancement text:

Signed off 04/29/88 in release A01.20

Number: 5000243899 Product: HP TEAMWORK   300 64711S004   02.20

One-line description:
load_dd failures.

Problem:
To get any of the ddes to work with 'load_dd', one must add a comma
at the end of the attributes immediately before the right parenthesis,
example: data_flow(data flow,)=

Also

data_flow (data flow,) =
flow

must be changed to

data_flow(data flow,) = flow

Temporary solution:
See the problem text.

Signed off 04/29/88 in release A02.30

Number: 5000266288 Product: HP TEAMWORK   300 64711S004   02.20

Keywords: SFNONE

One-line description:
Error message "UNUSUAL DB_ERROR" occurs during file save.

Signed off 04/05/88 in release A02.30

Number: D200077602 Product: HP TEAMWORK   300 64711S004   01.00

One-line description:
Doing a ^I out of twk and then typing in twk causes errors.

Problem:
After invoking twk and doing an escape with a ^I, re-invoking twk
causes errors to occur. Some of the errors reported are: completely
hanging the console necessitating a reboot, disruption of the twk
database, loss of the first twk session.

twk should check to see if it is already running before attempting a
new session.

Temporary solution:
None at this time.

Signed off 04/29/88 in release A02.30

Number: 5000244939 Product: HP TEAMWORK   300 64711S004   02.20

One-line description:
Does not support user defined key mappings

Problem:
Customer in Europe uses local keyboard like AZERTY or other, but twk
doesn't recognize this keyboard and interprets keystroke as coming from
QWERTY keyboard.

Temporary solution:
No temporary solution at this time.

Signed off 04/29/88 in release A02.30

Number: 5000220806 Product: PROM PROGRAMMER 300 64501S004   01.30

One-line description:
prom programmer won't accept addresses greater than 07FFFFFFFH

Signed off 04/29/88 in release A01.40

Number: D200077503 Product: PROM PROGRAMMER 300 64501S004   01.10

One-line description:
Core dump when using bad configueration file

Signed off 04/29/88 in release Z01.40

Number: D200082362 Product: PROM PROGRAMMER 300 64501S004   01.30

One-line description:
Processes sometimes left running after parent has stopped.

Problem:
Sometimes, when the parent process to a measurement system is killed
some of the measurement systems processes are left running.   Please
change the behaviour of the products so that these processes die
nicely.

Temporary solution:
If the tty associated with the process is a pty, then you can
release the processes by
        cat < ptyxx
This causes the pending output to be flushed, and the processes will die
naturally.

Signed off 04/29/88 in release Z01.40

Number: D200089482 Product: RS-232 TRANSFER 300 64885   01.00

Keywords: TRANSFER

One-line description:
Wrong error message when missing hpib driver.

Problem:
Missing hpib driver in hpux operating system causes an incorrect
error message from csib.

Temporary solution:
No temporary solution at this time.

Signed off 04/29/88 in release A01.40

Number: D200089672 Product: RS-232 TRANSFER 300 64885   01.30

One-line description:
"CDF customize" is missing /usr/hp64000/etc/newconfig/rcdevice file.

Problem:
Error in 64885 config and files file.
Pre Ship problem.

Signed off 04/29/88 in release A01.40

Number: D200042028 Product: RS-232 TRANSFER VAX 64886   00.00

Keywords: TRANSFER

One-line description:
If HOST disc file system is full, transfer ignores failed write requests

Problem:
If the VAX file system is full, transfer does not check if writes to the
the file system fail. Example: If one is transfering from a VAX and
the VAX does not have space available, transfer will report that the
transfer completed when it indeed failed.

Temporary solution:
None at this time.

Signed off 04/18/86 in release 601.60

Number: D200085464 Product: RS-232 TRANSFER VAX 64886   01.50

Keywords: TRANSFER

One-line description:
Message output from transfer may brk in two lines when reass. to sys$out

Problem:
The output messages from transfer may break into two lines
(apparently on 32 character buffer boundaries) when sys$output
is reassigned to a file.

This appears to be due to a defect in VMS 4.6 system or libraries.

Temporary solution:
No temporary solution.

Signed off 04/14/88 in release A01.60

Number: 1650034389 Product: SOFTKEY EDITOR   300 64790S004   01.10

One-line description:
Editor does not generate listfiles correctly.

Problem:
The command "list <listfile> until ^STRING^" fails to generate the
specified listfile.

Temporary solution:
Try using the command "list !cat > listfile ! until ^STRING^".

Signed off 02/29/88 in release A02.10

Number: 5000231555 Product: SOFTKEY EDITOR   300 64790S004   01.10

Keywords: EDITOR

One-line description:
"del char" softkey corrupts display with vt220 but does operation

Problem:
"del char" key corrupts sk editor display with vt220 terminal when
used with recommended "AUTO WRAP ON"

Page 2-14 of the Installation and Configuration manual for 64000-UX
recommends that a vt220 terminal be set for "AUTO WRAP". When using
the "del char" key with sk in this mode, the display does not
reflect the actual operation. A CNTL-L corrects the display. Note
that "AUTO WRAP" must be on for correct functioning with pmon, and
emulation software.

Temporary solution:
Use CNTL-L after each "del char" key.
Change terminal configuration to "AUTO WRAP OFF" before entering sk.

Signed off 02/29/88 in release A02.10

Number: D200080143 Product: SOFTKEY EDITOR   300 64790S004   01.00

One-line description:
pwd truncates the /net/system portion of the path when RFA'ed to system.

Problem:
When using the HP 64000-UX products and netnaming across the LAN
to another system, such as a compile server, the HP-UX command
"pwd" which is used by the HP64000-UX product to tell what the
local directory is, truncates the "/net/system" part of the path.

This is a HP-UX operating system defect. It is not a defect in
the HP 64000-UX application software. As soon as this defect is
fixed in HP-UX, it will work correctly when using the HP 64000-UX
applications.

Signed off 02/29/88 in release A02.10

Number: D200081992 Product: SOFTKEY EDITOR   300 64790S004   01.00

One-line description:
Expand shell variable on command line.

Problem:
Cannot expand shell variables on command line.

Temporary solution:
No temporary solution at this time.

Signed off 02/29/88 in release A02.10

Number: 5000242867 Product: SOFTKEY EDITOR   500 64790S001   02.00

One-line description:
Purge command will not work if $HOME/.recover/xxxx is > 40 characters.

Problem:
Purge command can only handle file names less than 40 characters
in length. If the filename $HOME/.recover/xxxx is more than
40 characters long (i.e if $HOME is more than 27 characters long)
purge will generate an error "Can't link to file".

Signed off 02/29/88 in release A02.10

Number: D200076570 Product: SOFTKEY EDITOR   500 64790S001   01.10

One-line description:
Very slow 'replace' with wildcards over several lines.

Problem:
The sk editor is very slow when the 'replace' command uses
wildcard characters.

Signed off 02/29/88 in release Z02.10

Number: 1650025643 Product: SOFTKEY EDITOR   500 64790S001   01.10

Keywords: ENHANCEMENT

One-line description:
Suggested method for improving sk's speed.

Problem:
The performance of the sk editor on the 500 could be improved
if
a) the code would be made

    shared executable
    demand code loadeble
    smaller max heap size

by   chatr -m2097150 -q +n /usr/hp64000/bin/sk

b) the average segment size would be changed from 1k to 16k by

linking with the option -M 16000

Signed off 02/29/88 in release A02.10

Number: D200089557 Product: USER INTERFACE   300 64808S004   02.10

One-line description:
An change that makes "asm_list" the default mode of compiler operation.

Problem:
The product has been changed to make the "expanded listings" an
event that allways happens (a Default), rather than a soft-key
envolked option.

The SOFT-KEY for this option has been eliminated from the Soft-key
template so that a redundant softkey is not displayed.

Signed off 04/29/88 in release A02.30

**HEWLETT
PACKARD**