

HP 64000 System Release Bulletin

HP STARS II

64000 SOFTWARE RELEASE BULLETIN

SDN 2906.89.04A

APRIL, 1989

This document supersedes all previously dated SSBs.

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PACKARD

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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 understand? Yes [] No [] (If no, explain under Comments, below.)

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

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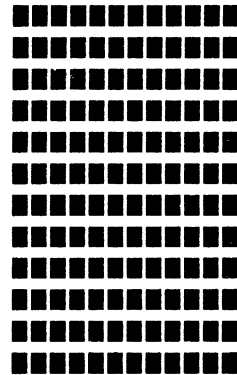
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P R E F A C E

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 numbers. These are referenced by the product, report number and keyword indexes in order to direct the user to a particular area or to an individual 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	02.60
*650X ASSEMB	VAX 64843S003	01.90
*6800 C	VAX 64821S003	02.30
*6800 PASCAL	VAX 64811S003	02.10
*6800/2 ASSEMB	VAX 64841S003	01.90
*68000 ASSEMB	64845	02.20
*68000 ASSEMB	300 64845S004	02.20
*68000 ASSEMB	500 64845S001	02.20
*68000 ASSEMB	DOS 64845S006	02.20
*68000 ASSEMB	VAX 64845S003	02.20
*68000 C	VAX 64819S003	02.30
*68000 PASCAL	VAX 64815S003	02.10
*6805/9 ASSEMB	VAX 64844S003	02.00
*6809 C	VAX 64822S003	02.00
*6809 PASCAL	VAX 64813S003	01.80
*68HCII ASSEMB	VAX 64865S003	01.50
*80186 EMULATION	300 64224S004	01.30
*80188 EMULATION	300 64225S004	01.30
*80196 FUI	DOS 64771S006	01.02
*80286B ASSEMB	VAX 64859S003	01.60
*8048 ASSEMB	VAX 64846S003	01.90
*8051 ASSEMB	VAX 64855S003	02.00
*8080/5 ASSEMB	VAX 64840S003	01.90
*8085 B PASCAL	VAX 64825S003	02.10
*8085 C	VAX 64826S003	02.30
*8086 BBA	300 64382S004	01.00
*8086 DQ EMUL	300 64220S004	01.40
*8086/8 ASSEMB	VAX 64853S003	03.00
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*8086/8 C	500 64818S001	03.90
*8086/8 C	VAX 64818S003	03.90
*8086/8 PASCAL	64814	03.70
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*8086/8 PASCAL	500 64814S001	03.70
*8086/8 PASCAL	VAX 64814S003	03.70
*8088 DQ EMUL	300 64221S004	01.30
*8096 ASSEMB	DOS 64860S006	01.90
*8096 ASSEMB	VAX 64860S003	01.90
*9900/0 ASSEMB	VAX 64847S003	01.90
*MS1750A ASSEMB	64857	02.00
*MS1750A ASSEMB	300 64857S004	02.00
*MS1750A ASSEMB	500 64857S001	02.00
*MS1750A ASSEMB	VAX 64857S003	02.00
*NETWORK TRANSFER	VAX 64887S003	01.40
*TMS 320 ASSEMB	VAX 64858S003	01.90
*USER DEF ASSEMB	VAX 64851S003	02.30
*USER DEF ASSEMB	VAX 64861S003	02.30
*UTILITIES PKG	300 64888S004	01.30
*UTILITIES PKG	VAX 64888S003	01.60
*Z80 ASSEMB	VAX 64842S003	02.00
*Z80/NSC800 C	VAX 64824S003	02.30
*Z80/NSC800PASCAL	VAX 64823S003	02.10
*Z8000 C	VAX 64820S003	02.30
*Z8000 PASCAL	VAX 64816S003	02.10

Software release contents

Product name	Product number	uu.ff
*Z8001/2 ASSEMB	VAX 64854S003	01.90

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	64225S004	01.20 Monitor commands may not complete execution correctly with target sys.	D200098269	15
	64225S004	01.20 Single Stepping on an odd address in target produces incorrect opcode	D200102871	15
	64225S004	01.20 "bbaunload" does not work	D200102905	15

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PROBLEM ON 9000/S300	64857	01.90 JC 7,LABEL generates a warning	D200098590	33

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PROBLEM ON VAX	64857S003	01.90 Please change the VAX products to work with "VMS 5.0".	D200100248	34

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Keyword	Product number	uu.ff Description	Report #	page
PROBLEM ON VAX	64887S003	01.10 Please change the VAX products to work with "VMS 5.0".	D200102236	35

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Keyword	Product number	uu.ff Description	Report #	page
PROBLEM ON VAX	64851S003	02.20 Please change the VAX products to work with "VMS 5.0".	D200100313	36
	64861S003	01.01 Please change the VAX products to work with "VMS 5.0".	D200100289	37

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Keyword	Product number	uu.ff Description	Report #	page
*****none*****	64888S004	01.20 Please add a utility to change IEEE format to HP format.	D200100461	38
	64888S004	01.20 The Load address for sections is not kept current.	D200103069	38

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Keyword	Product number	uu.ff Description	Report #	page
*****none*****	64888S003	01.40 Record attributes on VMS files are incorrect.	5000267005	39

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Keyword	Product number	uu.ff Description	Report #	page
*****none*****	64888S003	01.50 Please add a utility to change IEEE format to HP format.	D200100479	40
	64888S003	01.50 The Load address for sections is not kept current.	D200103051	39

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Keyword	Product number	uu.ff Description	Report #	page
PROBLEM ON VAX	64842S003	01.90 Please change the VAX products to work with "VMS 5.0".	D200100149	41

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Keyword	Product number	uu.ff Description	Report #	page
PROBLEM ON VAX	64824S003	02.20 Please change the VAX products to work with "VMS 5.0".	D200100099	42

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PROBLEM ON VAX	64823S003	02.00 Please change the VAX products to work with "VMS 5.0".	D200100081	43

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PROBLEM ON VAX	64820S003	02.20 Please change the VAX products to work with "VMS 5.0".	D200100057	44

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PROBLEM ON VAX	64816S003	02.00 Please change the VAX products to work with "VMS 5.0".	D200100024	45

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PROBLEM ON VAX	64854S003	01.80 Please change the VAX products to work with "VMS 5.0".	D200100214	46

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Number: D200103044 Product: 64000-UX OP-ENV 300 64801S004 02.40

One-line description:

"emul700" returns with errors on normal startup of multi interfaces.

Problem:

1. When three or more processes are brought up at the same time, a message indicating that the semaphore is missing will be displayed by emul700.
2. When two interfaces are brought up about 3 seconds apart, a message indicating that the lockfile is missing will be displayed by emul700.

Number: D200103515 Product: 64000-UX OP-ENV 300 64801S004 02.40

One-line description:

Emstartemul times out when using the new RS422 cables.

Problem:

If the new rs422 cables are being used, emstartemul() will time out about 50 percent of the time.

SRB detail reports as of 02/03/89

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Number: D200100156 Product: 650X ASSEMB VAX 64843S003 01.80

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.90

SRB detail reports as of 02/03/89

Page: 3

Number: D200100065 Product: 6800 C VAX 64821S003 02.20

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.30

SRB detail reports as of 02/03/89

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Number: D200099986 Product: 6800 PASCAL VAX 64811S003 02.00

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.10

SRB detail reports as of 02/03/89

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Number: D200097022 Product: 68000 ASSEMB 64845 02.10

Keywords: CODE GENERATOR PROBLEM ON VAX

One-line description:

.X and .L showing up on cross reference listing

Problem:

.L and .W showing up in cross reference listing

.L and .W showing up in cross reference listing

Signed off 02/03/89 in release A02.20

SRB detail reports as of 02/03/89

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Number: D200100172 Product: 68000 ASSEMB VAX 64845S003 02.10

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.20

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Number: D200100040 Product: 68000 C VAX 64819S003 02.20

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.30

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Number: D200100016 Product: 68000 PASCAL VAX 64815S003 02.00

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.10

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Number: D200100164 Product: 6805/9 ASSEMB VAX 64844S003 01.90

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.00

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Number: D200100073 Product: 6809 C VAX 64822S003 01.90

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.00

SRB detail reports as of 02/03/89

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Number: D200099994 Product: 6809 PASCAL VAX 64813S003 01.70

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.80

SRB detail reports as of 02/03/89

Page: 12

Number: D200100305 Product: 68HCII ASSEMB VAX 64865S003 01.40

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.50

Number: D200092544 Product: 80186 EMULATION 300 64224S004 01.20

One-line description:

Monitor commands can fail depending on where it is linked

Problem:

Detailed Listing for Defect Number LSDqf04262

Text:

monitor commands can fail depending on where it is linked

If MONITOR_CONTROL ends up too close to the end of a 256 byte block when the code is linked, monitor commands such as read/write target memory will fail, possibly in ways that are not immediately obvious to the user. The problem is that the upper address register on the memory controller is not properly incremented so some of the command parameters are written to incorrect locations. For guaranteed correct operation, there must be at least 12 bytes available. For example, the last two hex digits of the location of MONITOR_CONTROL (from the global_symbols display) MUST be less than or equal to F4H.

This defect should exist as one DTS defect (pII_maint, eng i80x8x), but be expanded in STARS to the following emulators:

64220	8086/87, 80C86
64221	8088/87, 80C88
64225	80188

Signed off 02/03/89 in release A01.30

Number: D200095612 Product: 80186 EMULATION 300 64224S004 01.00

One-line description:

Emulation core dumps when run in a small window.

Problem:

When emulation is run in a small window, it end releases before the status line comes up and generates a core file. It should leave the emulator locked and display a message, "Display size is too small".

Signed off 02/03/89 in release A01.30

Number: D200095901 Product: 80186 EMULATION 300 64224S004 01.20

One-line description:

"Copy to Read-Only files", fails to deliver an error message to screen

Problem:

If an attempt is made to use the copy command to write to read only file the command fails silently. The error message "permission denied" never shows up.

Signed off 02/03/89 in release A01.30

Number: D200098251 Product: 80186 EMULATION 300 64224S004 01.20

One-line description:

Monitor commands may not complete execution correctly with target sys.

Problem:

Monitor cmds may not be given enough time to finish when the emulator is used with a target system. The monitor cmds are any command executed by the monitor from the wait loop (ARE_YOU_THERE, COPY, EXIT_MONITOR, etc.)

If the target system halts the emulator or runs extremely slow, the monitor command will not complete before the aries card cage gives up.

The card cage should wait 100 ms for the command to complete. Many of the emulators wait much less than this.

Signed off 02/03/89 in release A01.30

Number: D200102863 Product: 80186 EMULATION 300 64224S004 01.20

One-line description:

Single Stepping on an odd address in target produces incorrect opcode

Signed off 02/03/89 in release A01.30

Number: D200102897 Product: 80186 EMULATION 300 64224S004 01.20

One-line description:

"bbaunload" does not work

Problem:

"bbaunload" does not work. The bba records can not be unloaded with the new version of the 8086 AxLS compiler.

The AxLS compiler was changed so that the symbol file contains 32 bit logical addresses instead of 20 bit physical addresses. The bbaunload software expects the physical address to be passed to readmemory() when the bba record is to be read.

Temporary solution:

The address must be converted from a logical to a physical address before the read is done.

Signed off 02/03/89 in release A01.30

Number: D200095620 Product: 80188 EMULATION 300 64225S004 01.20

One-line description:

Emulation core dumps when run in a small window.

Problem:

When emulation is run in a small window, it end releases before the status line comes up and generates a core file. It should leave the emulator locked and display a message, "Display size is too small".

Signed off 02/03/89 in release A01.30

Number: D200095919 Product: 80188 EMULATION 300 64225S004 01.20

One-line description:

"Copy to Read-Only files", fails to deliver an error message to screen

Problem:

If an attempt is made to use the copy command to write to read only file the command fails silently. The error message "permission denied" never shows up.

Signed off 02/03/89 in release A01.30

Number: D200098269 Product: 80188 EMULATION 300 64225S004 01.20

One-line description:

Monitor commands may not complete execution correctly with target sys.

Problem:

Monitor cmds may not be given enough time to finish when the emulator is used with a target system. The monitor cmds are any command executed by the monitor from the wait loop (ARE_YOU_THERE, COPY, EXIT_MONITOR, etc.)

If the target system halts the emulator or runs extremely slow, the monitor command will not complete before the aries card cage gives up.

The card cage should wait 100 ms for the command to complete. Many of the emulators wait much less than this.

Signed off 02/03/89 in release A01.30

Number: D200102871 Product: 80188 EMULATION 300 64225S004 01.20

One-line description:

Single Stepping on an odd address in target produces incorrect opcode

Signed off 02/03/89 in release A01.30

Number: D200102905 Product: 80188 EMULATION 300 64225S004 01.20

One-line description:

"bbaunload" does not work

Problem:

"bbaunload" does not work. The bba records can not be unloaded with the

new version of the 8086 AxLS compiler.

The AxLS compiler was changed so that the symbol file contains 32 bit logical addresses instead of 20 bit physical addresses. The bbaunload software expects the physical address to be passed to readmemory() when the bba record is to be read.

Temporary solution:

The address must be converted from a logical to a physical address before the read is done.

Signed off 02/03/89 in release A01.30

SRB detail reports as of 02/03/89

Page: 17

Number: D200100263 Product: 80286B ASSEMB VAX 64859S003 01.50

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.60

SRB detail reports as of 02/03/89

Page: 18

Number: D200100180 Product: 8048 ASSEMB VAX 64846S003 01.80

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.90

SRB detail reports as of 02/03/89

Page: 19

Number: D200100222 Product: 8051 ASSEMB VAX 64855S003 01.80

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.00

SRB detail reports as of 02/03/89

Page: 20

Number: D200100123 Product: 8080/5 ASSEMB VAX 64840S003 01.80

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.90

SRB detail reports as of 02/03/89

Page: 21

Number: D200100107 Product: 8085 B PASCAL VAX 64825S003 02.00

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.10

SRB detail reports as of 02/03/89

Page: 22

Number: D200100115 Product: 8085 C VAX 64826S003 02.20

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.30

Number: D200095588 Product: 8086 DQ EMUL 300 64220S004 01.30

One-line description:

Emulation core dumps when run in a small window.

Problem:

When emulation is run in a small window, it ends releases before the status line comes up and generates a core file. It should leave the emulator locked and display a message, "Display size is too small".

Signed off 02/03/89 in release A01.40

Number: D200095877 Product: 8086 DQ EMUL 300 64220S004 01.30

One-line description:

"Copy to Read-Only files", fails to deliver an error message to screen

Problem:

If an attempt is made to use the copy command to write to read only file the command fails silently. The error message "permission denied" never shows up.

Signed off 02/03/89 in release A01.40

Number: D200098228 Product: 8086 DQ EMUL 300 64220S004 01.30

One-line description:

Monitor commands may not complete execution correctly with target sys.

Problem:

Monitor cmds may not be given enough time to finish when the emulator is used with a target system. The monitor cmds are any command executed by the monitor from the wait loop (ARE_YOU_THERE, COPY, EXIT_MONITOR, etc.)

If the target system halts the emulator or runs extremely slow, the monitor command will not complete before the aries card cage gives up.

The card cage should wait 100 ms for the command to complete. Many of the emulators wait much less than this.

Signed off 02/03/89 in release A01.40

Number: D200102749 Product: 8086 DQ EMUL 300 64220S004 01.30

One-line description:

"bbaunload" does not work

Problem:

"bbaunload" does not work. The bba records can not be unloaded with the new version of the 8086 AxLS compiler.

The AxLS compiler was changed so that the symbol file contains 32 bit logical addresses instead of 20 bit physical addresses. The bbaunload software expects the physical address to be passed to readmemory() when the bba record is to be read.

Temporary solution:

The address must be converted from a logical to a physical address before the read is done.

Signed off 02/03/89 in release A01.40

Number: D200102855 Product: 8086 DQ EMUL 300 64220S004 01.30

One-line description:

Single Stepping on an odd address in target produces incorrect opcode

Signed off 02/03/89 in release A01.40

SRB detail reports as of 02/03/89

Page: 25

Number: D200100206 Product: 8086/8 ASSEMB VAX 64853S003 02.80

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A03.00

- -0

SRB detail reports as of 02/03/89

Page: 26

Number: 5000410571 Product: 8086/8 C 64818 03.80

One-line description:

Bad code generated when parameter includes function call.

Problem:

I was able to duplicate the problem, and sent the code to Joe Hawk.

For the statement:

```
put_string(S_SCREEN,k,2
           sprt(x,"#%d %10.4f %10.4f %10.4f",i+1,sp1,sp2,sp3));
```

Revision 3.70 generates:

```
.
.
MOV AX,SS:WORD PTR [BP-00053H]
INC AX
PUSH AX
PUSH CS
.
.
```

While 3.80 generates:

```
.
.
MOV AX,SS:WORD PTR [BP-00053H]
INC AX
MOV BX,AX
ADD BX,#+0008CH
PUSH BX
PUSH CS
.
.
```

Signed off 02/03/89 in release A03.90

- -0

SRB detail reports as of 02/03/89

Page: 27

Number: D200100032 Product: 8086/8 C VAX 64818S003 03.80

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A03.90

- -0

SRB detail reports as of 02/03/89

Page: 28

Number: D200100008 Product: 8086/8 PASCAL VAX 64814S003 03.60

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A03.70

- -0

Number: 5000428193 Product: 8088 DQ EMUL 300 64221S004 01.10

One-line description:

Single Stepping Does Not Show PUSH ES instruction

Problem:

80C88 emulator can not single step for the particular instruction.

For example ;

```
PUSH DS
PUSH ES    <----- This instruction was not displayed.
MOV AX,SEG SP_STACK
```

The commands being skipped by the step command (PUSH ES and MOV AX,SEG SP_STACK) were indeed being executed, although they did not appear on the screen.

Signed off 02/03/89 in release A01.30

Number: D200095596 Product: 8088 DQ EMUL 300 64221S004 01.20

One-line description:

Emulation core dumps when run in a small window.

Problem:

When emulation is run in a small window, it end releases before the status line comes up and generates a core file. It should leave the emulator locked and display a message, "Display size is too small".

Signed off 02/03/89 in release A01.30

Number: D200095885 Product: 8088 DQ EMUL 300 64221S004 01.20

One-line description:

"Copy to Read-Only files", fails to deliver an error message to screen

Problem:

If an attempt is made to use the copy command to write to read only file the command fails silently. The error message "permission denied" never shows up.

Signed off 02/03/89 in release A01.30

Number: D200098236 Product: 8088 DQ EMUL 300 64221S004 01.20

One-line description:

Monitor commands may not complete execution correctly with target sys.

Problem:

Monitor cmds may not be given enough time to finish when the emulator is used with a target system. The monitor cmds are any command executed by the monitor from the wait loop (ARE_YOU_THERE, COPY, EXIT_MONITOR, etc.)

If the target system halts the emulator or runs extremely slow, the monitor command will not complete before the aries card cage gives up.

The card cage should wait 100 ms for the command to complete. Many of the emulators wait much less than this.

Signed off 02/03/89 in release A01.30

Number: D200099507 Product: 8088 DQ EMUL 300 64221S004 01.20

One-line description:

Single Stepping on an odd address in target produces incorrect opcode

Signed off 02/03/89 in release A01.30

Number: D200102889 Product: 8088 DQ EMUL 300 64221S004 01.20

One-line description:

"bbaunload" does not work

Problem:

"bbaunload" does not work. The bba records can not be unloaded with the new version of the 8086 AxLS compiler.

The AxLS compiler was changed so that the symbol file contains 32 bit logical addresses instead of 20 bit physical addresses. The bbaunload software expects the physical address to be passed to readmemory() when the bba record is to be read.

Temporary solution:

The address must be converted from a logical to a physical address before the read is done.

Signed off 02/03/89 in release A01.30

SRB detail reports as of 02/03/89

Page: 31

Number: D200100271 Product: 8096 ASSEMB VAX 64860S003 01.80

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.90

SRB detail reports as of 02/03/89

Page: 32

Number: D200100198 Product: 9900/0 ASSEMB VAX 64847S003 01.80

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.90

SRB detail reports as of 02/03/89

Page: 33

Number: D200098590 Product: MS1750A ASSEMB 64857 01.90

Keywords: PROBLEM ON 9000/S300

One-line description:

JC 7,LABEL generates a warning

Problem:

The manual for the MIL STD 1750 (F9450) does not suggest a mnemonic for the JC 7 or Jump Conditional Unconditional. It seems logical enough! However the JC 7 command is the only way to perform a long jump.

The problem, we flag the JC 7 command with a "Warning-IO". This seems appropriate for the other conditions which provide mnemonics but not for a necessary command with no mnemonic. If a mnemonic for the JC 7 command exists (which I do not think it does) it should be implemented, if not, the warning message could be eliminated.

"1750AMS"

LABEL	LIM	R1,5
	JC	7,LABEL
		^ WARN IO
	JC	LT,LABEL

Temporary solution:

No known workaround at this time.

Signed off 02/03/89 in release A02.00

- -S

SRB detail reports as of 02/03/89

Page: 34

Number: D200100248 Product: MS1750A ASSEMB VAX 64857S003 01.90

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.00

- -S

SRB detail reports as of 02/03/89

Page: 35

Number: D200102236 Product: NETWORK TRANSFER VAX 64887S003 01.10

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.40

- -E

SRB detail reports as of 02/03/89

Page: 36

Number: D200100313 Product: USER DEF ASSEMB VAX 64851S003 02.20

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.30

- -S

SRB detail reports as of 02/03/89

Page: 37

Number: D200100289 Product: USER DEF ASSEMB VAX 64861S003 01.01

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.30

- -S

SRB detail reports as of 02/03/89

Page: 38

Number: D200103069 Product: UTILITIES PKG 300 64888S004 01.20

One-line description:

The Load address for sections is not kept current.

Problem:

When loading absolute records, the symconv utility does not keep track of the last address where a section loaded a byte. In the example given, the second record of bytes loaded into section 2 should start loading at ADDRESS 0x2010. Similarly, the second record of bytes loaded into section 3 should be loaded at address 0x3004.

The problem here is that load address for a section can only be assigned an address in three ways (in order of priority):

- 1) An ASP record explicitly assigns an address to a load section index
 - 2) If no ASP record is given, the address defaults to the base address given by an ASL record with a matching index.
 - 3) If no ASL record is given, the address defaults to zero (0).
- Once set, the load address for a section is changed in only two ways:
- 1) Another ASP record is given for the section.
 - 2) Bytes are loaded in the section which increments the load address by the number of bytes loaded.

This type of behaviour is not currently documented in the specification but is the correct behaviour as understood by Microtec and HP.

Signed off 02/03/89 in release A01.30

Number: D200100461 Product: UTILITIES PKG 300 64888S004 01.20

One-line description:

Please add a utility to change IEEE format to HP format.

Problem:

This SR is being used to record the addition of a utility to change IEEE format to HP format

Signed off 02/03/89 in release A01.30

- -T

Number: 5000267005 Product: UTILITIES PKG VAX 64888S003 01.40

One-line description:
Record attributes on VMS files are incorrect.

Problem:

The xlate utility on the VAX does create Motorola S Record files with the conventional "Record Attributes". Normally, the Record Attribute of an S Record file (ASCII file) is "Carriage return carriage control". The xlate utility creates a .H file with "none" as the Record attributes.

This can cause a few problems:

- viewing the file is difficult, because each record is not started on a new line when viewed via the "TYPE" command for example.
- some editors will not accept the file, because the one line is too long
- in this customer's case, the Microtec Research 6301 simulator cannot be used because the simulator will not accept the file.

The ASCII files created via xlate should have Record attributes of:
"Carriage return carriage control"

Temporary solution:

- create an fdl file such as "tovarcr.fdl" that looks like:

```
RECORD
  CARRIAGE_CONTROL      carriage_return
  FORMAT                variable
```

(note that tabs should be used, not spaces, and case should be as shown).

Then issue the command:

```
"convert/fdl=tovarcr <OLDFILE.H> <NEWFILE.H>"
```

The NEWFILE.H will have carriage return carriage control attributes.

Signed off 02/03/89 in release A01.60

Number: D200103051 Product: UTILITIES PKG VAX 64888S003 01.50

One-line description:

The Load address for sections is not kept current.

Problem:

When loading absolute records, the symconv utility does not keep track of the last address where a section loaded a byte. In the example given, the second record of bytes loaded into section 2 should start loading at

```
ADDRESS
0x2010. Similarly, the second record of bytes loaded into section 3 shld be loaded at address 0x3004.
```

The problem here is that load address for a section can only be assigned an address in three ways (in order of priority):

- 1) An ASP record explicitly assigns an address to a load section index
- 2) If no ASP record is given, the address defaults to the base address given by an ASL record with a matching index.
- 3) If no ASL record is given, the address defaults to zero (0).

Once set, the load address for a section is changed in only two ways:
Once set, the load address for a section is changed in only two ways:

- 1) Another ASP record is given for the section.
- 2) Bytes are loaded in the section which increments the load address by the number of bytes loaded.

This type of behaviour is not currently documented in the specification but is the correct behaviour as understood by Microtec and HP.

Signed off 02/03/89 in release A01.60

Number: D200100479 Product: UTILITIES PKG VAX 64888S003 01.50

One-line description:

Please add a utility to change IEEE format to HP format.

Problem:

This SR is being used to record the addition of a utility to change IEEE format to HP format

Signed off 02/03/89 in release A01.60

SRB detail reports as of 02/03/89

Page: 41

Number: D200100149 Product: Z80 ASSEMB VAX 64842S003 01.90

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.00

SRB detail reports as of 02/03/89

Page: 42

Number: D200100099 Product: Z80/NSC800 C VAX 64824S003 02.20

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.30

SRB detail reports as of 02/03/89

Page: 43

Number: D200100081 Product: Z80/NSC800PASCAL VAX 64823S003 02.00

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.10

SRB detail reports as of 02/03/89

Page: 44

Number: D200100057 Product: Z8000 C VAX 64820S003 02.20

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.30

SRB detail reports as of 02/03/89 Page: 45

Number: D200100024 Product: Z8000 PASCAL VAX 64816S003 02.00

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A02.10

SRB detail reports as of 02/03/89 Page: 46

Number: D200100214 Product: Z8001/2 ASSEMB VAX 64854S003 01.80

Keywords: PROBLEM ON VAX

One-line description:

Please change the VAX products to work with "VMS 5.0".

Problem:

This is an informational SR to benchmark the timeframe that support for VMS 5.0 started

It begins with the new-version and Sign-Off Date of this SR.

While this SR is "OPEN", VMS 5.0 is not supported.

Signed off 02/03/89 in release A01.90

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