

# HEWLETT-PACKARD COMPANY LOGIC SYSTEMS DIVISION

# HP 64000 Logic Development System

SYSTEM RELEASE BULLETIN

Part Number: 5958-6019

E0787

Printed: JULY 1987

# **HP STARS II**

# SOFTWARE RELEASE BULLETIN

**Issue 87.8** 

**AUGUST, 1987** 

This document supersedes all previously dated SSBs.

HEWLETT PACKARD

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NOTICE

The information contained in this document is subject to change without notice.

HEWLETT-PACKARD MAKES NO WARRANTY OF ANY KIND WITH REGARD TO THIS

MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

- \* MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Hewlett-Packard shall not
- \* be liable for errors contained herein or for incidental or consequential damages in connection with the
- \* furnishing, performance or use of this material.

\*

Hewlett-Packard assumes no responsibility for the use or reliability of its software on equipment that is not furnished by Hewlett-Packard.

t is not furnished by Hewlett-Tackard.

This document contains proprietary information which is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced or translated to another language without the prior written consent of Hewlett-Packard Company.

\_

\*\*\*\*\*\*\*\*\*\*\*\*

### READER COMMENT SHEET

### STARS II SRB (STARS B)

Issue	DATE	;	_//
We welcome your evaluation of this bulletin. You Please use additional pages if necessary.	our commen	its an	d suggestions help us to improve our publications.
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.)
Comments:			,
********	*****	***	*********
		Date	×
FROM:			
Name			
Company			
Address			

STARS B Printed in U.S.A.

FOLD

FOLD

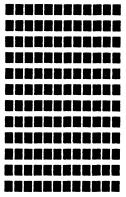


# **BUSINESS REPLY MAIL**

FIRST CLASS PERMIT NO. 1303 COLORADO SPRINGS, CO.

POSTAGE WILL BE PAID BY ADDRESSEE

STARS Administration Hewlett-Packard Company Logic Systems Division P.O. BOX 617 Colorado Springs, Colorado 80901-0617 NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



FOLD

FOLD

#### PREFACE

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	648015004	01.60
*68000 DQ EMUL	300	642438004	01.00
*68HC11 EMUL		64265	01.00
*70016 EMUL (JLO)	300	642945004	01.00
*70108 EMUL (JLO)	300	64295S004	01.00
*8036 EMUL	300	642225004	01.00
*8086/8 ASSEMB		64853	02.03
*8086/8 ASSEMB	300	64853S004	02.30
*8036/8 ASSEMB	500	64853S001	02.40
*8086/8 ASSEMB	VAX	64853S003	02.50
*8088 EMULATION	300	642265004	01.00
*8096 ASSEMB		64860	01.04
*8096 ASSEMB	300	64860S004	01.30
*8096 ASSEMB	500	64860S001	01.40
*8096 ASSEMB	VAX	64860s003	01.50
*PROM PROGRAMMER		64501	01.10
*PROM PROGRAMMER	300	64501S0 <b>04</b>	01.03
*STATE 80386		64659	01.00
*TIMING ANALYZER	300	646105004	02.00
*USER DEF EMUL	300	642745004	01.00

### Product index

Product name		Product number	Page
8086/8 ASSEMB		64853	1
8086/8 ASSEMB	VAX	64853s003	3
8096 ASSEMB		64860	4
8096 ASSEMB	300	648605004	5
8096 ASSEMB	500	64860S001	6
8096 ASSEMB	VAX	648605003	7

## Report number index

Report #	page						
5000163055 5000172585	1	D200054189 D200054197	7	D200055301 D200055319	7	D200075358 D200076273	3 7
5000179887	4	D200054205	5	D200055327	5		

Keyword	Product number	uu.ff Description	Report #	page
CODE GENERATOR	64853	02.02 Conditional jumps > +/-127 (8-bit signed) away do not generate an LR err	5000163055	1
		0		
Keyword	Product number	uu.ff Description	Report #	page
*******none*****	64853S003	02.40 Unable to link files which have .R's in other dirs. than where assembled	D200075358	3
		0		
Keyword	Product number	uu.ff Description	Report #	page
********none*****	64860 64860	01.03 SHRL,SHLL,SHRAL label -doesn't resolve the address of label in absolute 01.03 EXT does not insert RAM addr for external symbol operands	5000172585 5000179887	
		0		
Keyword	Product number	uu.ff Description	Report #	page
*******none*****	64860S004 64860S004	01.00 SKIP listing control pseudo does not work. 01.00 DCW and DCB will not function with negative operands.	D200054205 D200055327	
		0		
Keyword	Product number	uu.ff Description	Report #	page
*******none*****	64860S001 64860S001	01.10 SKIP listing control pseudo does not work. 01.10 DCW and DCB will not function with negative operands.	D200054189 D200055301	
		0		
Keyword	Product number	uu.ff Description	Report #	page
********none******	64860S003 64860S003 64860S003	01.20 SKIP listing control pseudo does not work. 01.20 DCW and DCB will not function with negative operands. 01.40 Unable to link files which have .R's in other dirs. than where assembled	D200054197 D200055319 D200076273	7

```
Number: 5000163055 Product: 8086/8 ASSEMB
                                                           64853
                                                                               02.02
Keywords: CODE GENERATOR
One-line description:
Conditional jumps > +/-127 (8-bit signed) away do not generate an LR err
The assembler no longer flags a "legal range" error when a forward conditional jump between 80H and FFH is made. The Intel Programmer's reference instructs that all conditional jump must be SHORT. This
problem does not occur with backward referencing.
Examples:
     "80186"
       JMP SHORT LABEL
                           (should be LR error)
       DBS 81H
    LABEL
    "8088"
    NULL
            EQU 0
             ORG 0
     START MOV AL, NULL
             ADD AX,#01
             JO STOP
                               (should generate a LR error)
             JMP START
             ORG 264
     STOP
             NOP
     END
     FROM1
                JZ LAB1
                              (should generate a LR error)
                DBS 200
                HLT
     LAB1
    "8086"
             JZ FRED
             DBS
                              (should generate a LR error)
                    81H
    FRED
             NOP
             END
    "8088"
            STC
            JC HERE
                          (should flag a LR error)
            DBS 128
  HERE
             NOP
            JMP HERE
            END
     "8086"
     TEST:
                  OR AX,AX
                  JE TEST_01
                                 (should flag a LR error)
                  DBS 200
     TEST_01:
```

Page:

1

SRB detail reports as of 06/22/87

SRB detail reports as of 06/22/87 Page: 2
This problem only occurs on the 64100 and the VAX.
Temporary solution:
There is no known temporary solution.

Signed off 06/22/87 in release Z02.03

SRB detail reports as of 06/22/87

Page:

3

02.40

SRB detail reports as of 06/22/87

Page:

Number: D200075358 Product: 8086/8 ASSEMB

VAX 64853S003

Number: 5000172585 Product: 8096 ASSEMB

64860

01.03

One-line description:

Unable to link files which have .R's in other dirs, than where assembled

Problem:

If files are assembled in one directory on the VAX, their .R files must remain in that directory. Moving the .R files to another directory will cause the link to fail.

Temporary solution:

The relocatable files must remain in the directory that they were assembled in.

Signed off 06/22/87 in release 302.50

Number: 5000179887 Product: 8096 ASSEMB 648

64860 01.03

One-line description:

One-line description:

EXT does not insert RAM addr for external symbol operands

SHRL, SHRLL label -doesn't resolve the address of label in absolute

Signed off 06/22/87 in release 001.04

Signed off 06/22/87 in release 001.04

SRB detail reports as of 06/22/87

Page: 5

Number: D200054205 Product: 8096 ASSEMB

300 648605004

300 64860S004

01.00 Number: D200054189 Product: 8096 ASSEMB

SRB detail reports as of 06/22/87

500 648605001

Page:

6

01.10

01.10

One-line description:

SKIP listing control pseudo does not work.

Problem:

The SKIP listing control instruction does not work. It generates assembler errors when used in the source program.

Temporary solution:

Insert formfeeds (control L) in the listing file before printing it.

Signed off 06/22/87 in release 401.30

Number: D200055327 Product: 8096 ASSEMB

01.00

One-line description:

DCW and DCB will not function with negative operands.

Problem:

An assembler error is generated if the operand of a DCB or DCW instruction is a negative number. According to the manual, negative values in the legal range are valid operands.

"8096"

LABEL1 DCB -10

^IC - Illegal constant, illegal character found in constant

Temporary solution:

No known temporary solution.

Signed off 06/22/87 in release 401.30

One-line description:

SKIP listing control pseudo does not work.

Problem:

The SKIP listing control instruction does not work. It generates assembler errors when used in the source program.

Temporary solution:

Insert formfeeds (control L) in the listing file before printing it

Signed off 06/22/87 in release 101.40

Number: D200055301 Product: 8096 ASSEMB 500 64860S001

One-line description:

DCW and DCB will not function with negative operands.

Problem.

An assembler error is generated if the operand of a DCB or DCW instruction is a negative number. According to the manual, negative values in the legal range are valid operands.

"8096"

LABEL1 DCB -10

^IC - Illegal constant, illegal character found in constant

Temporary solution:

No known temporary solution.

Signed off 06/22/87 in release 101.40

SRB detail reports as of 06/22/87

Page:

7

Number: D200054197 Product: 8096 ASSEMB

VAX 64860S003

VAX 64860S003

01.20

One-line description:

SKIP listing control pseudo does not work.

The SKIP listing control instruction does not work. It generates assembler errors when used in the source program.

Temporary solution:

Insert formfeeds (control L) in the listing file before printing it.

Signed off 06/22/87 in release 301.50

Number: D200055319 Product: 8096 ASSEMB

01,20

One-line description:

DCW and DCB will not function with negative operands.

Problem:

An assembler error is generated if the operand of a DCB or DCW instruction is a negative number. According to the manual, negative values in the legal range are valid operands.

"8096"

LABEL1

DCB

 $^{-10}$   $^{\circ}$  IC - Illegal constant, illegal character found in constant

Temporary solution:

No known temporary solution.

Signed off 06/22/87 in release 301.50

Number: D200076273 Product: 8096 ASSEMB

VAX 64860S003 01.40

One-line description:

Unable to link files which have .R's in other dirs. than where assembled

Problem:

If files are assembled in one directory on the VAX, their

.R files must remain in that directory. Moving the .R files to another directory will cause the link to fail.

Temporary solution:

The relocatable files must remain in the directory that they were assembled in.

Signed off 06/22/87 in release 301.50

