

# HP 1000 SOFTWARE STATUS BULLETIN



Update Issue for  
2 week period ending  
December 15, 1978



DATA SYSTEMS DIVISION  
Cupertino, California

THIS DOCUMENT SUPERSEDES  
ALL PREVIOUSLY DATED VERSIONS

9 FEB 1979	
Rec	<i>Bull PB</i>
M	
<input type="checkbox"/> Action	<input type="checkbox"/> See
<input type="checkbox"/> Information	<input type="checkbox"/> Director
<input type="checkbox"/> Draft Reply	<input type="checkbox"/> No File

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\* HP-1000 SYSTEMS \*  
\* SOFTWARE STATUS BULLETIN FOR THE 2 WEEK PERIOD \*  
\* PERIOD ENDING ON 12-15-78 \*  
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\* PUBLISHED BY HEWLETT-PACKARD DATA SYSTEMS DIVISION \*  
\* 11000 WOLFE ROAD, CUPERTINO, CALIFORNIA 95014 \*  
\*  
\* THIS IS AN UPDATE ISSUE, PRINTED EVERY TWO WEEKS. \*  
\* THE INDIVIDUAL PAGES MAY BE USED TO REPLACE PAGES IN \*  
\* THE CUMULATIVE ISSUE (PUBLISHED QUARTERLY) AND ADD NEW \*  
\* PAGES FOR THOSE REPORTS WHICH ARE NEW. \*  
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\*\* NOTE: IF YOU HAVE A PROBLEM YOU WISH TO REPORT, YOU MUST \*\*  
\*\* DO SO THROUGH THE LOCAL HP OFFICE. REPORTS MAILED \*\*  
\*\* DIRECTLY TO THE FACTORY ARE NOT GUARRANTEED A \*\*  
\*\* RESPONSE. \*\*  
\*\*

\*\* YOU MAY ALSO CONTACT YOUR HP OFFICE TO SUBMIT A \*\*  
\*\* REQUEST FOR A CHANGE OR 'ENHANCEMENT' TO HP SOFTWARE. \*\*  
\*\* THE REQUEST WILL BE FORWARDED TO THE FACTORY AND YOU \*\*  
\*\* WILL RECEIVE A RESPONSE THROUGH YOUR LOCAL HP \*\*  
\*\* REPRESENTATIVE. \*\*  
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REPORT: 4277 PART/PROD: 59310-90064 1805 LOGGED: 10/23/78 CLOSED: 12/14/78  
NAME: HPIB MANUAL FIX BY: 01/01/79 CHANGE: / /  
CODE 10 LAB PERSON:  
HP REP: NEAL KUHN REGION: DIV. COMSYS: 2200  
SUPPORT SERVICES PRODUCT #: 92067A

TITLE: BASIC PROG EXAMPL: ON PAGE 2-6 CONTAINS WRONG VALUE

PROBLEM: IN THE FIGURE 2-1 ON PAGE 2-6 THE TRIGGER VALUE  
SENT TO DVM IS SHOWN '3'. IT SHOULD BE 'T3'.

EXPLANATION: AS ABOVE.

ACTION: CHANGE THE STATEMENT 120 TO PRINT #20; 'T3'  
STATUS 11-12-78. TO BE FIXED IN REV. 1901.  
STATUS 12-14-78. FIXED IN REV 1840.

REPORT: 4356 PART/PROD: 92063-12001 1840 LOGGED: 12/02/78 CLOSED: / /  
NAME: IMAGE LIBRARY FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
HP REP: ERRYL JOHNSON REGION: NSR COMSYS: 2640  
SUPPORT SERVICES PRODUCT #: 92063

TITLE: DBOPN ABORTS WITH MP IF NO DBINT

PROBLEM: IF DBOPN IS CALLED WITHOUT A PRIOR CALL TO DBINT, THE  
CALLING PROGRAM ABORTS WITH A MEMORY PROTECT ERROR.

EXPLANATION: DBJPN CHECKS AIRVN (POINTER TO RUN TABLE) FOR A ZERO.  
IF ZERO IT ATTEMPTS TO RETURN WITH ERROR 130 (DBINT  
NOT CALLED). JUST BEFORE RETURNING, DBOPB CALLS SFILL  
TO ZERO OUT THE ROOT FILE'S DATA CONTROL BLOCK. SINCE  
THE POINTER TO THE DCB WAS NEVER SET UP BY DBINT,  
SFILL TRYS TO STUFF ZEROS INTO OUTER SPACE, CAUSING  
A MEMORY PROTECT.

ACTION: UNDER CONSIDERATION

WORK AROUND: CALL DBINT BEFORE DBOPN AS THE MANUAL  
SPECIFIES.

OR: ADD THE FOLLOWING CODE AFTER LINE 743

(743) STB PARS 4,I  
(ADD) CPB .130  
(ADD) JMP DBOPN,I

**HP Computer Museum**  
**[www.hpmuseum.net](http://www.hpmuseum.net)**

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REPORT: 4358 PART/PROD: 92002-12001 1826 LOGGED: 12/05/78 CLOSED: / /  
NAME:FMGR FIX BY: / / CHANGE: / /  
CODE 14 LAB PERSON:  
HP REP: ALAN HOUSLEY REGION: DIV COMSYS: 2200  
SUPPORT SERVICES PRODUCT #: 92067A

TITLE: FMGR CR COMMAND GIVES ERR -14 RATHER THAN USE NEXT CARTRIDGE

PROBLEM: IF THE COMMAND  
:CR,<<FILNAM>>:0:<<TYPE>>:<<SIZE>>  
IS ENTERED AND THE FIRST MOUNTED CARTRIDGE WITH ENOUGH  
ROOM FOR THE FILE HAS A FULL DIRECTORY, FMGR WILL GIVE  
A -14 ERROR RATHER THAN CHECKING THE NEXT MOUNTED  
CARTRIDGE.

EXPLANATION: AS ABOVE

ACTION: UNDER INVESTIGATION.

SPECIFY A CARTRIDGE WHEN CREATING A FILE IF THIS IS A  
PROBLEM.

REPORT: 4357 PART/PROD: 92101-16001 1826 LOGGED: 12/05/78 CLOSED: / /  
NAME: BASIC 1000D FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
HP REP: EIKO JOHNSON REGION: DIV. COMSYS: 2200  
SUPPORT SERVICES PRODUCT #: 92101A

TITLE: BASIC DOES NOT ALLOW A NUMB IN 2ND CHAR POSITION OF FUNC NAME

PROBLEM: BASIC GIVES AN ERROR MESSAGE IF A FUNCTION NAME CONTAINS A NUMERIC CHARACTER IN THE SECOND CHARACTER POSITION. THERE IS A ROUTINE CALLED A2F(09570-16271) IN THE MTIS CHARACTER STRING LIBRARY(09570-12006). THIS ROUTINE CAN BE USED AS A SUBROUTINE OR A FUNCTION. IT HAS TO BE A FUNCTION CALL IF AN ERROR IS TO BE RETURNED. THE FOLLOWING BASIC PROGRAM GETS ERROR MESSAGE.

```
10 DIM C$(20)
20 A-A2F(C$,5,5,X)
```

WHERE A2F IS DEFINED AS  
A2F(RA,I,I,RV) F 1

WHEN A2F IS DEFINED AS A SUBROUTINE (A2F(RA,I,I,RV) S 1)  
BASIC DOES NOT REJECT THE CALL A2F(C\$,5,5,X).

EXPLANATION: BASIC REJECTS ANY FUNCTION NAME THAT HAS A NUMERIC CHARACTER IN THE 2ND POSITION. E.G. A5AA. THE FORM AA5A WORKS FINE.

ACTION: EITHER FIX THIS PROBLEM IN BASIC OR DOCUMENT THE NAME RESTRICTION AND CHANGE THE MTIS LIBRARY ROUTINE A2F.

REPORT: 4359 PART/PROD: 92101-16001 1826 LOGGED: 12/05/78 CLOSED: / /  
NAME: BASIC 1000D FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
HP REP: EIKO JOHNSON REGION: DIV. COMSYS: 2200  
SUPPORT SERVICES PRODUCT #: 92101A

TITLE: TOF TO A LINE PRINTER USING LU DOES NOT WORK

PROBLEM: WHEN A TOP-OF-FORM IS ISSUED TO A LINE PRINTER THRU LU  
USING THE CARRIAGE CONTROL( PRINT #6; '1'), BASIC PRINTS  
1 ON LINE PRINTER INSTEAD OF GIVING A PAGE EJECT.

EXPLANATION: AS ABOVE

ACTION: A WORK-AROUND TO ISSUE TOF IS TO USE A TYPE 0 FILE  
CREATED FOR LP AS FOLLOWS:

10 FILES 0,LP  
20 PRINT #2;'1'  
30 END

LP MUST BE A TYPE 0 FILE FOR A  
LINE PRINTER

BASIC SHOULD BE CHANGED TO ALLOW A TOF TO LP THRU LU.



REPORT: 4360 PART/PRCD: 09610-93003 7806 LOGGED: 12/05/78 CLOSED: / /  
NAME:ISA FTM MANUAL FIX BY: / / CHANGE: / /  
CODE 10 LAB PERSON:  
HP REP: BOB MYERS REGION: NSR COMSYS: 2403  
SUPPORT SERVICES PRODUCT #: 92413A

TITLE: 6940/2313 CONFIG TABLES MUST BE PUT IN SSGA TO WORK WITH BASIC

PROBLEM: THE CONFIGURATION TABLES &6940, ..ADC, AND ..DAC WILL  
BE MEMORY RESIDENT UNLESS THEY ARE SPECIFIED AS TYPE  
30 DURING PROGRAM PHASE OF RTE IV GENERATION.  
THE DISC RESIDENT BASIC WILL NOT BE ABLE TO ACCESS  
TABLES IF THEY ARE MEMORY RESIDENT.

EXPLANATION: AS ABOVE

ACTION: DOCUMENT IN THE MANUAL THAT THE CONFIGURATION TABLES  
MUST BE MADE TYPE 30 DURING GENERATION TO BE USABLE  
FROM RTE IV BASIC.



REPORT: 4361 PART/PROD: 92060-90016 7806 LOGGED: 12/05/78 CLOSED: / /  
NAME: BASIC/1000D FIX BY: / / CHANGE: / /  
CODE 10 LAB PERSON:  
HP REP: VLADIMIR PREYSMAN REGION: ESR COMSYS: 4415  
SUPPORT SERVICES PRODUCT #: 92060A

TITLE: STATES 'FILE NOT REMAINED OPEN USING CHAIN'. NOT SO IN REV1826

PROBLEM : ON PAGE 6-5 IN THE MANUAL, IT STATES THAT

'FILES DO NOT REMAIN OPEN WHEN ONE PROGRAM CHAINS  
TO ANOTHER.'

PAGE 13 OF THE SOFTWARE UPDATE NOTICE FOR REV. 1826  
STATES THAT ALL BASIC PROGRAMS THAT ARE CHAINED OR  
INVOKED WILL LEAVE THE DATA FILES OPEN. THEREFORE,  
THE ABOVE STATEMENT IN THE MANUAL SHOULD BE UPDATED.

EXPLANATION : AS ABOVE.

ACTION : TO BE CORRECTED IN NEXT MANUAL UPDATE.

REPORT: 4362 PART/PROD: 92064-90003 1780 LOGGED: 12/06/78 CLOSED: / /  
NAME: RTEM GEN MANUAL FIX BY: / / CHANGE: / /  
CODE 10 LAB PERSON:  
HP REP: TIM MATHER REGION: MSR COMSYS: 2608  
SUPPORT SERVICES PRODUCT #: 92064A

TITLE: RTEM GEN MANUAL DOES NOT WARN ABOUT CHANGING ENT WITH EXP,RP

PROBLEM: IF YOU ARE GENERATING AN RTE-M SYSTEM TO RUN ON AN  
F-SERIES CPU, AND TRY TO INCLUDE THE EXP SCIENTIFIC  
INSTRUCTION SET ROUTINE WITH:

\*CHANGE ENT?  
EXP,RP,105326

R1MGN (OR RTMLG) WILL ABORT.

EXPLANATION: R1MGN USES EXIT TO ABORT. IF YOU NEED TO ENTER ANY  
COMMAND WITH EX AS THE FIRST TWO CHARACTERS, ENTER  
A BLANK BEFORE THE COMMAND.

ACTION: TO BE CLARIFIED IN THE NEXT MANUAL REVISION.

REPORT: 4363 PART/PROD: 92101-16023 1805 LOGGED: 12/07/78 CLOSED: / /  
NAME:%BATG4(RTETG) FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
HP REP: GLENN TALBOTT REGION: DIV COMSYS: 2200  
SUPPORT SERVICES PRODUCT #: 92101A

TITLE: RTETG DOES NOT ALLOW CHARACTER SC SPECIFIED FOR OVERLAYS

PROBLEM: THE RTE TABLE GENERATOR FOR BASIC, RTETG(%BATG4) WILL NOT  
ALLOW 2 CHARACTERS TO BE SPECIFIED FOR THE SECURITY CODE  
ASSIGNED TO OVERLAY DIRECTORY FILES AS THE MANUAL STATES.  
IT WILL ALLOW AN INTEGER HOWEVER.

EXPLANATION: AS ABOVE

ACTION: UNDER INVESTIGATION, AS A WORKAROUND SPECIFY AN INTEGER  
INSTEAD OF 2 ASCII CHARACTERS.

REPORT: 4364 PART/PROD: 92101-12001 1826 LOGGED: 12/05/78 CLOSED: / /  
NAME: BASIC 1000D FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
HP REP: DON POTTENGER REGION: DIV. COMSYS: 2200  
SUPPORT SERVICES PRODUCT #: 92101A

TITLE: CHAIN WITH NO STATEMENT # LABEL DOES NOT WORK

PROBLEM: WHEN NO STATEMENT-NUMBER-LABEL IS PROVIDED TO A CHAIN STATEMENT, BASIC DOES NOT BRANCH TO THE BEGINNING OF THE CHAINED PROGRAM. IT BRANCHES TO THE NUMBER PREVIOUSLY USED OR UNEXPECTED LOCATION CAUSING POSSIBLE MP ERROR.

EXPLANATION: THE STORAGE CELL USED TO SAVE THE STATEMENT NUMBER IS NOT INITIALIZED; HENCE, IT MAY STILL CONTAIN THE NUMBER USED BEFORE FROM CHAINING SOME OTHER PROGRAM.

ACTION: IT WORKS FINE IF YOU SUPPLY THE FIRST STATEMENT-LABEL INSTEAD OF USING THE DEFAULT.

IT CAN ALSO BE CORRECTED BY PATCHING THE SEGMENT 4 (BASC4) AS FOLLOWS:

FIND LABEL ECH2

```
          LDA TEMPS,I  
          STA LORUN  
          JMP COMND  
ECH2     CLA,INA  
          JMP COMND
```

CHANGE IT TO

```
          LDA TEMPS,I  
          STA LORUN  
          JMP COMND  
ECH2     CLA,INA  
          JMP *-3
```

REPORT: 4365 PART/PROD: 92101-16019 1650 LOGGED: 12/11/78 CLOSED: / /  
NAME: %BAIMG FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
HP REP: ERRYL JOHNSON REGION: NSR COMSYS: 2460  
SUPPORT SERVICES PRODUCT #: 92101A

TITLE: BASIC/IMAGE OVERLAY ABORTS WITH MEMORY PROTECT

PROBLEM: IF A BASIC PROGRAM USING IMAGE CALLS FAILS TO CLOSE A DATA BASE BEFORE ENDING, AND IF THE BASIC/IMAGE OVERLAY PROGRAM IS MEMORY RESIDENT OR FOR SOME OTHER REASON EXECUTES THE SAME COPY ON SUCCESSIVE RUNS OF THE IMAGE USING PROGRAM, THE OVERLAY PROGRAM WILL ABORT WITH A MEMORY PROTECT ERROR.

EXPLANATION: THE DMOPN PART OF THE BASIC/IMAGE LIBRARY DOES NOT TEST THE RUN TABLE STATUS WORD FOR 'LB'. (THIS CHECK IS NOW MADE IN DBINT 92063-12001, REV. 1840. BUT BASIC DOES NOT USE DBINT, BASIC USES ITS OWN VERSION IN DMOPN.)

DBOPN IS CALLED BY DMOPN WHICH DOES MAKE THIS CHECK. IF THE STATUS IS 'LB', DBOPN ATTEMPTS TO RETURN WITH AN ERROR 103. PRIOR TO RETURNING, DBOPN CALLS SFILL TO ZERO OUT THE ROOT FILES DATA CONTROL BLOCK. SINCE DBOPN NEVER HAD A CHANCE TO SETUP THE POINTER TO THE ROOT FILE'S DCB, SFILL ATTEMPTS TO CLEAR OUT WHAT EVER THE B REGISTER IS POINTING TO. THIS RESULTS IN THE OVERLAY PROGRAM ABORTING WITH A MEMORY PROTECT.

ACTION: UNDER INVESTIGATION

AS A WORK AROUND DON'T EXIT PROGRAMS WITHOUT CLOSING DATA BASES

A PATCH HAS BEEN PROPOSED WHICH SHOULD WORK IF IT IS NECESSARY TO USE THE OVERLAY IN THIS MANNER.

IN THE SOURCE TO THE BASIC/IMAGE LIBRARY ADD THE FOLLOWING:

1) AFTER SOURCE LINE 50, BETWEEN 'DEF ISTAT' AND 'JSB ASCI' ADD:

```
LDB AIRUN
SZB,RSS
JMP * 5
ADB .3
LDA 1,I
JMP ER103
```



2) AFTER SOURCE LINE 95, BETWEEN 'STA AIRUN' AND 'CMA,INA' ADD:

```
CLB
ADA .3
STB 0,I
```

LDA AIRUN

3) AFTER LINE 145, BETWEEN 'JMP DMOPN,I' AND  
'E117 LDA .117' ADD THE FOLLOWING:

ER103 LDA .103  
RSS

REPORT: 4366 PART/PROD: 92900-16003 1840 LOGGED: 12/12/78 CLOSED: / /  
NAME:DVA47 FIX BY: / / CHANGE: / /  
CODE 5 LAB PERSON:  
HP REP: DANIEL POT REGION: GRE COMSYS: 6300

TITLE: SOFT KEY 11 NOT USEABLE IF 3070B HAS NO PRINTER

PROBLEM: IF A 3070B IS NOT EQUIPED WITH A PRINTER AND READER  
THE SOFT KEY NUMBER 11 IS NEVER AVAILABLE TO THE  
USER AS A TERMINATOR KEY.

EXPLANATION: AT BOOT-UP ALL 3070 EQT ENTRIES ARE CONFIGURED FOR  
3070A TERMINALS MAKING SOFT KEY 11, PRINTER AND  
READER UNAVAILABLE. THE EQT COULD THEN BE CONFIGURED  
FOR THE 3070B BY GETTING THE HARDWARE CONFIGURATION  
FROM THE TERMINAL USING EITHER THE RESET SERVICE  
REQUEST STATUS OR THE WAIT AND CHECK FOR A SERVICE  
REQUEST CALLS. HOWEVER IF THE 3070 DOES NOT HAVE A  
PRINTER IT IS ASSUMED TO BE A 3070A AND SOFT KEY 11  
IS NOT ENABLED.

ACTION: TO BE FIXED IN THE 1901 REVISION OF DVA47

AS A TEMPORARY FIX PATCH THE DVA47 SOURCE, SUBROUTINE  
AORB? AT LINE 1899 IS:

```
AORB?  NOP
        LDA TEQ18,I
        SSA
        ISZ AORB?
        JMP AORB?,I
```

SHOULD BE REPLACED WITH:

```
AORB?  NOP
        LDA TEQ18,I
        AND BIT13
        SZA
        ISZ AORB?
        JMP AORB,I
```



REPORT: 4367 PART/PROJ: 92903A 1840 LOGGED: 12/12/78 CLOSED: / /  
NAME: DATA CAP/1000 FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
HP REP: DANIEL POT REGION: GRE COMSYS: 6300  
SUPPORT SERVICES PRODUCT #: 92903A

TITLE: SCREEN #4 CANNOT BE RE-TRANSMITTED

PROBLEM: ONCE SCREEN #4 HAS BEEN SUCCESSFULLY TRANSMITTED  
AND RECALLED USING THE PREVIOUS SCREEN KEY,  
TRANSMITTING THE SCREEN AGAIN RESULTS IN AN IMAGE  
ERROR #103 BEING REPORTED.

EXPLANATION: AS ABOVE

ACTION: UNDER INVESTIGATION

REPORT: 4368 PART/PROD: 92067-16011 1805 LOGGED: 12/13/78 CLOSED: / /  
NAME:ASMB FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
HP REP: ALAN TIBBETTS REGION: NSR COMSYS: 2414  
SUPPORT SERVICES PRODUCT #: 92067A

TITLE: ABSOLUTE ASSEMBLY DOES NOT PRODUCE PRINT FIELDS FOR BYT OPCODE

PROBLEM : THE FOLLOWING EXAMPLES ILLUSTRATE THIS PROBLEM.

```
0001 ASMB,R,L
0002 00000 NAM BUG
0003*
0004 00000 000015 C.R. BYT 0,15
0005 00001 000012 L.F. BYT 0,12
0006*
0007 END
```

THE ABOVE RELOCATABLE ASSEMBLY PRODUCES THE PROPER OUTPUT.

```
0001 ASMB,A,L
0002 00100 ORG 100B
0003*
00100 000015
00101 000012
0006*
0007 END
```

ABSOLUTE ASSEMBLY DOES NOT PRODUCE THE LISTING  
FOR THE TWO 'BYT' INSTRUCTIONS.

EXPLANATION : AS ABOVE.

ACTION : TO BE INVESTIGATED.

REPORT: 4369 PART/PROD: 92063-12001 1840 LOGGED: 12/13/78 CLOSED: / /  
NAME: XDBLIB FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
CUSTOMER NAME: T.A.C.  
ADDRESS: 120 W. WIEVCA RD. NE  
ATLANTA, GA. 30342

HP REP: PAUL PRIMMER REGION: SSR COMSYS: 3112  
SUPPORT SERVICES PRODUCT #: 92063A

TITLE: CORRUPTED DATA BASE USING DBGET/DBUPD IN MULTI-PROGRAM ENVIR.

PROBLEM: USE OF A DBGET/DBUPD SEQUENCE IN A MULTI-PROGRAM ENVIRONMENT CAN CAUSE A CORRUPT DATA BASE IF ANOTHER PROGRAM MODIFIES THE DATA BASE BETWEEN THE GET AND THE UPDATE.

EXPLANATION: THERE ARE TWO SEPARATE WAYS IN WHICH THIS PROBLEM CAN OCCUR. IN THE FIRST ASSUME PROGRAM A DOES A DBGET IN ORDER TO DO A DBUPD. THIS DBGET PULLS SECTORS OFF THE DISC PUTTING THEM INTO THE PROGRAMS INTERNAL DATA CONTROL BLOCK (DCB). THE SECTOR(S) IN PROGRAM A'S DCB CONTAIN RECORDS MADE UP OF MEDIA AND DATA FIELDS. PROGRAM B NOW INTERRUPTS AND DOES EITHER DBDEL'S OR DBPUT'S WHICH MODIFY MEDIA RECORDS IN THE SAME SECTOR(S). PROGRAM B POSTS ITS DCB AND GOES AWAY. NOW THE SECTOR(S) IN PROGRAM A'S DCB DO NOT MATCH THE SECTOR(S) ON THE DISC. WHEN PROGRAM A RESUMES IT DOES A DBUPD MODIFYING ONLY DATA RECORDS. WHEN PROGRAM A POSTS ITS DCB THE CHANGES MADE IN THE MEDIA RECORDS IN THE AFFECTED SECTOR(S) ARE OVER-WRITTEN. THE DATA BASE IS NOW CORRUPT.

TO RESOLVE THIS PROBLEM A DBLCK COULD BE ISSUED PRIOR TO THE DBUPD. THEN THE DBUPD WOULD FORCE A FRESH READ FROM THE DISC BEFORE UPDATING.

HOWEVER THIS LEAVES ANOTHER POSSIBILITY THAT OCCURS WHEN UPDATING MANUAL MASTER SETS. IN MANUAL MASTER DATA SETS DBPUT'S AND DBDEL'S CAN CAUSE RECORDS TO MIGRATE BY MOVING SYNONYMS. WHEN PROGRAM A DOES A DBGET THE RECORD NUMBER IS SAVED IN THE RUN TABLE. PROGRAM B THEN CAUSES THE RECORDS TO MIGRATE. WHEN PROGRAM A DOES THE DBUPD THE RECORD NUMBER TO BE UPDATED IS GOTTEN FROM THE RUN TABLE AND THE WRONG RECORD IS UPDATED (EVEN IF THE DCB CONTAINS THE PROPER DATA).

THE MANUAL SHOULD BE REVISED TO RECOMMEND A DBLCK BEFORE A DBGET/DBUPD CYCLE.

ACTION: UNDER INVESTIGATION

ALWAYS DO A DBLCK PRIOR TO A DBGET/DBUPD CYCLE.

REPORT: 4370 PART/PROD: 92063-90001 1826 LOGGED: 12/13/78 CLOSED: / /  
NAME: IMAGE/1000 REFER FIX BY: / / CHANGE: / /  
CODE 10 LAB PERSON:  
CUSTOMER NAME: T.A.C.  
ADDRESS: 120 W. WIEVCA RD. NE  
ATLANTA, GA. 30342

HP REP: PAUL PRIMMER REGION: SSR COMSYS: 3112  
SUPPORT SERVICES PRODUCT #: 92063A

TITLE: CORRUPTED DATA BASE USING DBGET/DBUPD IN MULTI-PROGRAM ENVIR.

PROBLEM: USE OF A DBGET/DBUPD SEQUENCE IN A MULTI-PROGRAM ENVIRONMENT CAN CAUSE A CORRUPT DATA BASE IF ANOTHER PROGRAM MODIFIES THE DATA BASE BETWEEN THE GET AND THE UPDATE.

EXPLANATION: THERE ARE TWO SEPARATE WAYS IN WHICH THIS PROBLEM CAN OCCUR IN THE FIRST ASSUME PROGRAM A DOES A DBGET IN ORDER TO DO A DBUPD. THIS DBGET PULLS SECTORS OFF THE DISC PUTTING THEM INTO THE PROGRAMS INTERNAL DATA CONTROL BLOCK (DCB). THE SECTOR(S) IN PROGRAM A'S DCB CONTAIN RECORDS MADE UP OF MEDIA AND DATA FIELDS. PROGRAM B NOW INTERRUPTS AND DOES EITHER DBDEL'S OR DBPUT'S WHICH MODIFY MEDIA RECORDS IN THE SAME SECTOR(S). PROGRAM B POSTS ITS DCB AND GOES AWAY. NOW THE SECTOR(S) IN PROGRAM A'S DCB DO NOT MATCH THE SECTOR(S) ON THE DISC. WHEN PROGRAM A RESUMES IT DOES A DBUPD MODIFYING ONLY DATA RECORDS. WHEN PROGRAM A POSTS ITS DCB THE CHANGES MADE IN THE MEDIA RECORDS IN THE AFFECTED SECTOR(S) ARE OVER-WRITTEN. THE DATA BASE IS NOW CORRUPT.

TO RESOLVE THIS PROBLEM A DBLCK COULD BE ISSUED PRIOR TO THE DBUPD. THEN THE DBUPD WOULD FORCE A FRESH READ FROM THE DISC BEFORE UPDATING.

HOWEVER THIS LEAVES ANOTHER POSSIBILITY THAT OCCURS WHEN UPDATING MANUAL MASTER SETS. IN MANUAL MASTER DATA SETS DBPUT'S AND DBDEL'S CAN CAUSE RECORDS TO MIGRATE BY MOVING SYNONYMS. WHEN PROGRAM A DOES A DBGET THE RECORD NUMBER IS SAVED IN THE RUN TABLE. PROGRAM B THEN CAUSES THE RECORDS TO MIGRATE. WHEN PROGRAM A DOES THE DBUPD THE RECORD NUMBER TO BE UPDATED IS GOTTEN FROM THE RUN TABLE AND THE WRONG RECORD IS UPDATED (EVEN IF THE DCB CONTAINS THE PROPER DATA).

THE MANUAL SHOULD BE REVISED TO RECOMEND A DBLCK BEFORE A DBGET/DBUPD CYCLE.

ACTION: UNDER INVESTIGATION

ALWAYS DO A DBLCK PRIOR TO A DBGET/DBUPD CYCLE.

REPORT: 4371 PART/PROD: 91700-93001 1612 LOGGED: 12/14/78 CLOSED: / /  
NAME: DS1B' CCE FIX BY: / / CHANGE: / /  
CODE 10 LAB PERSON:  
CUSTOMER NAME: MR. WESTERVELD  
ADDRESS: PHILIPS MEDICAL SYST  
QJ-K BEST  
THE NETHERLANDS

HP REP: FRANK SLOOTWEG REGION: EUR COMSYS: 8500  
SUPPORT SERVICES PRODUCT #: 91700A

TITLE: DVR00 REV.1740 AND AFTER, GIVES UNDEF \$OPSY FOR RTEC SCEGN

PROBLEM : WHEN GENERATING A SCE/5 (OR 4) USING SCEGN, THERE WILL  
BE AN UNDEFINED EXTERNAL \$OPSY AFTER RELOCATING %DVR00  
(DATE CODED 1740 AND AFTER). THIS UNDEF CANNOT BE  
IGNORED BECAUSE DOING SO WILL RESTART THE GENERATION  
PROCESS (I.E. SCEGN WILL ASK TBG CHNL ETC.). SEE  
BOTTOM OF P. 5-24 IN THE MANUAL.

EXPLANATION : REV. 1740 AND AFTER OF DVR00 HAS AN EXTERNAL REFERENCE  
TO \$OPSY TO DETERMINE THE KIND OF OPERATING SYSTEM  
FOR MAPPING SET-UP. THE \$OPSY ENTRY POINT IS ONLY  
DEFINED FOR RTE-II/III/IV/M, BUT NOT FOR RTE-C NOR  
RTE-B (I.E. SCE/5 AND SCE/4 RESP.).

ACTION : USE THE SET COMMAND IN SCEGN BEFORE RELOCATING %DVR00 AS  
FOLLOWS :

SET \$OPSY TO 177775

WITH THIS VALUE FOR \$OPSY, DVR00 THINKS IT IS RUNNING  
UNDER RTE-II. THIS IS ALL RIGHT FOR RTE-C AND RTE-B  
BECAUSE LIKE RTE-II THEY ARE UNMAPPED SYSTEMS.

NOTE !! THE SET COMMAND MUST BE SPECIFIED BEFORE  
RELOCATING %DVR00 BECAUSE THE SET COMMAND CANNOT  
SATISFY ANY UNDEFINED EXTERNALS. (SEE P. 5-21.)

THIS SHOULD BE DOCUMENTED IN NEXT MANUAL UPDATE.

REPORT: 4372 PART/PROD: 92101-12001 1826 LOGGED: 12/15/78 CLOSED: / /  
NAME: BASIC 1000D FIX BY: / / CHANGE: / /  
CODE 8 LAB PERSON:  
HP REP: VLADIMIR PREYSMAN REGION: ESR COMSYS: 4415  
SUPPORT SERVICES PRODUCT #: 92101A

TITLE: CHAIN WITH NON-EXISTING STAT # LABEL DOES NOT WORK

PROBLEM: WHEN A CHAIN STATEMENT CONTAINS A NON-EXISTING STATEMENT NUMBER LABEL, MP ERROR OR STORAGE OVERFLOW MESSAGE MAY OCCUR INSTEAD OF EXECUTING FROM THE NEXT HIGHER STATEMENT NUMBER.

EXPLANATION: WHEN THE STATEMENT-NUMBER SPECIFIED IN A CHAIN STATEMENT DOES NOT EXIST IN THE CHAINED PROGRAM, EXECUTION SHOULD START FROM THE NEXT HIGHER STATEMENT AVAILABLE. BASIC DOES NOT USE THE NEXT STATEMENT FOUND IN THE SUBROUTINE FNDPS AFTER LOCATING THE PROPER ADDRESS.

ACTION: USE THE EXISTING STATEMENT NUMBER IN THE CHAIN STATEMENT.  
OR  
IT MAY BE CORRECTED BY THE FOLLOWING PATCH:

IN BASIC SEGMENT 4 (BASC4) LOCATE THE LABEL XEC2

	NOW		CHANGED TO
XEC2	JSB SETPT	XEC2	JSB SETPT
	LDA LORUN		LDA LORUN
	CPA .1		CPA .1
	JMP XEC3		JMP XEC3
	JSB FNDPS		JSB FNDPS
	NOP		JMP XEC6
	JMP XEC6		NOP

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HP 1000 SOFTWARE STATUS BULLETIN

5955-3201

December 15, 1978

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