

1 .TITLE VAX\$STATUS - Status Definitions for VAX-11 Instruction Emulator
2 .IDENT 'V04-000'
3

4 *****
5 *
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28 Facility:
29
30 VAX-11 Instruction Emulator

31 Abstract:
32
33 This file contains status codes for exceptions that are specific
34 to the VAX-11 instruction emulator.
35

36 Author:
37
38 Lawrence J. Kenah
39

40 Creation Date:
41
42 23 March 1983
43
44 V01-002 LJK0021 Lawrence J. Kenah 17-Mar-1984
45 Add status code for DIVP internal error
46
47 V01-001 Original Lawrence J. Kenah 23-Mar-1983
48 Original version of this module
49
50
51

```

52
53
0000013 54      .FACILITY      VAX , 19 /SYSTEM /PREFIX=VAX$
55
56      .SEVERITY      FATAL          ! ALL of these are fatal
57
58 ! The first two codes merely define exception names that are associated with
59 ! the two exceptions defined in the microVAX architecture to support
60 ! software emulation of the decimal and string instructions.
61
0013800C 62      OPCDEC        <reserved opcode (code=!XL) attempted at PC=!XL> /FA0=2
63
00138014 64      OPCDEC_FPD    <reserved opcode (code=!XL) attempted with FPD set at PC=!XL> /FA0=2
65
66 ! If an exception occurs and the exception dispatch logic determines that the
67 ! emulator was not entered in a standard way, this code is appended to the
68 ! beginning of the signal array and the new exception is reflected back to
69 ! the VMS exception dispatcher.
70
0013801C 71      ABORT         <exception (name=!XL) occurred after nonstandard entry into emulator
72
73 ! There are currently two consistency check made by the emulator that can
74 ! result in conditions not already covered by the VAX Architecture. Both
75 ! exceptions consist of the VAX$_INTERNAL status code followed by a longword
76 ! code that indicates the particular consistency check that failed. Note that
77 ! if the assumptions made by the logic in the emulator are correct, these
78 ! errors will NEVER be generated.
79
00138024 80      INTERNAL     <internal consistency error (type=!XL) detected by emulator> /FA0=1
81
82 ! The algorithm used in the subtraction of packed decimal strings makes a
83 ! decision about the sign of the final result. This choice demands that the
84 ! final subtraction NOT produce a borrow. If a borrow results from the final
85 ! subtraction, this error is generated to indicate that the algorithm is in
86 ! error.
87
88      .LITERAL      VAX$_SUBPx_ERROR
89
90 ! There are two indepdent counts of the byte count in the divisor string in
91 ! VAX$DIVP. If these counts are inconsistent, the following error is
92 ! generated.
93
94      .LITERAL      VAX$_DIVP_ERROR
95
96      .END

```

There were 0 errors, 0 warnings, and 0 informational messages issued.
 MESSAGE/NOTEXT/LIS=LIS\$:VAXSTATUS/OBJ=OBJ\$:VAXSTATUS MSRC\$:VAXSTATUS

0145 AH-BT13A-SE
VAX/VMS V4.0

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The image displays a comprehensive set of technical documentation for the VAX/VMS V4.0 system. It is organized into a grid of approximately 10 columns and 15 rows. The leftmost column contains three large sections: VAXLOAD LIS, VAXSTATUS LIS, and VAXSTRING LIS. The remaining columns are filled with various diagrams and tables, many of which are labeled as ERF (Error Report File) maps, such as ERFBRIEF MAP, ERFPROC1 MAP, ERFDISK MAP, ERFBUS MAP, ERFINCOM MAP, ERFCOMMON MAP, ENCRYP, ENCSTJBS LIS, and ERFPROC2 MAP. Each diagram or table appears to be a detailed technical representation of system components, likely related to error reporting or system performance monitoring. The text is small and densely packed, typical of technical manuals from that era.