MULTICS SYSTEM-PROGRAMMERS * MANUAL

SECTION BL.12 PAGE 1

Identification

Summary of Error Stops During Multics Initialization D. R. Widrig

Discussion

The general policy of error handling during Multics Initialization is to stop the processor(s) and display relevant error information on the display panel of the offended processor. The stopping of the processor is accomplished by executing a DIS instruction with an address field code indicating the general area of difficulty. Depending on the problem area, other processor lights may be used to display further information regarding the problem. The following charts illustrate current error displays.

Bootstrap 1 Errors

Octal Address Field of DIS Instruction		Additional Displays Used and Meaning (All numbers are octal)	
1.	777777	PBR = 4003	Bad tape status reading in bootstrap 1
2.	222222	A = 2	Logical format error in header control word
3.	222222	A = 3 Q = Status word	Unknown status word returned on read
4.	222222	A = 4 Q = Last good rec	Bad record on ord# tape
5.	222222	A = 5 Q = Status word	Emergency status word storage
6.	222222	A = 6 Q = Status word	Status word was not a terminate word
7.	222222	A = 7 Q = Status word	Unknown status on backspace

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MULTICS SYSTEM-PROGRAMMERS ' MANUAL SECTION BL.12 PAGE 2 8. 222222 A = 10Unexpected interrupt 9. 222222 A = 11Unexpected fault Q = Fault codeXO = TBRX1 = Effective addressX2 = PBRX3 = ICTC10. 222222 A = 12Improper sequence of text and linkage segs 11. 222222 A = 13Status not expected while backspacing 12. 222222 A = 14No more core left for allocation 13. 222222 A = 15Missing some critical segment (i.e. SLT, STĂCK) General Errors Reflected By Calls To Panic Octal Address Field of DIS Additional Displays Used and Meaning 1. 777777 AQ = ITS of caller Caller called PANIC Unexpected Faults or Interrupts After Bootstrap 1 1. 777776 Unexpected interrupt 2. 777774 A = Fault code Unexpected fault XO = TBRX1 = Effective addressX2 = PBRX3 = ICTC2a. 777774 A = 16Attempt to page X2 = FIM segnobefore establishment X3 = 265of paging mechanism (implies some data base is too small) Errors Occurring During Segment Loading After Bootstrap 1 525252 1. A = 1Record sequence error 2. 525252 A = 2Bad status from tape 0 = Status word read or backspace

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3. 525252 A = 3

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4.

Unreadable tape after 10 tries

Error in computing absolute address