

DataGeneral

**TECHNICAL
STATEMENT**

TEXT LISTING

068-000145-10

PROGRAM

MEMORY ADDRESS TEST

TEXT TAPE

097-000145-10

ABSTRACT

MEMORY ADDRESS TEST IS A MAINTENANCE PROGRAM DESIGNED TO DETECT MALFUNCTIONS IN THE MEMORY ADDRESS SELECTION LOGIC. THE PROGRAM FILLS MEMORY WITH AN ADDRESS PATTERN (C(ADDRESS)=ADDRESS). SUCCESSFUL READ BACK OF THE PATTERN IS PROOF THAT ALL LOCATIONS EXIST.

0004 .MAIN
**UUUUU TOTAL ERRORS, 00000 PASS 1 ERRORS

10005 .MAIN
01
02
03
04
05
06
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PROGRAM DISCUSSION  
? ?  
? THE PROGRAM CONSIST OF A RELATIVELY  
? SIMPLE STORE AND CHECK MEMORY ROUTINE.  
? ON THE FIRST PASS AFTER STARTING, THE  
? ADDRESS OF THE PATTERN LOCATION IS STORED  
? IN THE PATTERN LOCATION. THE LOCATION  
? IS THEN READ OUT AND CHECKED FOR ERRORS.  
? THE PROCESS CONTINUES WITH SUCCESSIVE  
? LOCATIONS UNTILL THE END OF THE PATTERN  
? IS REACHED. THE CARRY WILL BE COMPLETED  
? AT THE END OF A PASS. THE PROGRAM AGAIN  
? SCANS MEMORY READING AND CHECKING , BUT  
? NOT STORING, THE DATA. THAT IS STORES ARE  
? DONE ONLY ON THE FIRST PASS.
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LIMITATIONS/MISC  
? ?  
? THE SIZE OF THE MEMORY TO BE TESTED MAY  
? BE MODIFIED BY CHANGING THE VALUE OF  
? PROGRAM LOCATION 'LAST'.
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.EOT