

DataGeneral

**TECHNICAL
STATEMENT**

TEXT LISTING

068-000157-03

PROGRAM

INTER-PROCESSOR BUFFER
RELIABILITY

TEXT TAPE

097-000157-03

ABSTRACT

THE INTER-PROCESSOR BUFFER RELIABILITY PROGRAM IS USED
TO TEST THE VARIOUS TYPES OF TRANSFERS THAT ARE POSSIBLE
BETWEEN TWO I.P.B. BOARDS.

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; INTER-PROCESSOR BUFFER RELIABILITY PROGRAM
;
; 1.0 ABSTRACT:
;
; THE INTER-PROCESSOR BUFFER RELIABILITY PROGRAM
; IS USED TO TEST THE VARIOUS TYPES OF TRANSFERS THAT
; ARE POSSIBLE BETWEEN TO IPB BOARDS.
;
; 2.0 MACHINE REQUIREMENTS:
;
; TWO (2) NOVA(EXCEPT MICRO)/ECLIPSE FAMILY COMPUTERS
; 2.1 4K READ-WRITE MEMORY (FOR EACH MACHINE)
; 2.2 TWO (2) IPB BOARDS
; 2.3 A CABLE TO CONNECT THE UNITS
; 2.4 TWO (2) TELETYPES AND CONTROLS (ONE FOR EACH MACHINE)
; 2.5 (OPTIONAL) 2 LINE PRINTERS
; 2.6
;
; SWITCH SETTINGS:
;
; 3.0
; 3.1 MASTER MACHINE STARTS AT ADDRESS = 2
; 3.2 SLAVE MACHINE STARTS AT ADDRESS = 3
; 3.3 TO CHANGE DEVICE CODES, START AT ADDRESS = 4
; 3.4 SWITCH 2(1) = INHIBIT OUTPUT
; 3.5 SWITCH 5(1) = OUTPUT TO LPT
; 4.0 OPERATING PROCEDURE/OPERATOR INPUT:
;
; 4.1 LOAD THE PROGRAM VIA THE BINARY LOADER OR DTOS
; 4.2 IF THE IPB'S AND THEIR CABLE ARE INSTALLED
; GO TO STEP 4.6, ELSE, TURN THE COMPUTER OFF
; 4.3 PLUG THE I.P.B. BOARD INTO THE SLOT CONNECTED
; TO THE INTERNAL CABLE CONNECTION.
; 4.4 CONNECT THE CABLE TO THE MACHINE.
; 4.5 TURN THE MACHINE BACK ON
; 4.6 SET THE MASTER STARTING ADDRESS
; 4.6.1 PRESS MASTER START
; 4.7 SET THE SLAVE STARTING ADDRESS
; 4.7.1 PRESS SLAVE START
; 4.8 THE PROGRAM WILL RUN UNTIL MANUALLY STOPPED.
; UPON THE COMPLETION OF THE TESTS, THE
; PROGRAM WILL PRINT "PASS".
;
; 4.9 AFTER CHANGING DEVICE CODES, THE PROGRAM
; WILL HALT. THE OPERATOR SHOULD THEN FOLLOW THE
; OPERATIONS FOR EITHER A "MASTER" OR A "SLAVE" START.
;
;
; *****
; NAME: IPBR.TX                          PART NUMBER: 097-000157
;
; DESCRIPTION: INTER-PROCESSOR BUFFER RELIABILITY
;
; REVISION HISTORY:
;
; REV.          DATE
; 00           02/15/74
; 01           05/17/74
; 02           10/25/74
; 03           07/23/76
;
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PROGRAM OUTPUT/ERROR DISCRPTION:
THERE ARE TWO MAIN TYPES OF ERRORS THAT CAN OCCUR:
1) ERRORS DUE TO UNEXPECTED INTERRUPTS
2) ERRORS DUE TO CONTROL SIGNALS MISSING
THE FIRST CLASS WILL CAUSE THE PROGRAM TO PRINT
"ILLEGAL INTERRUPT - DEV = XXXX" WHERE XXXX IS THE
DEVICE CODE OF THE DEVICE INTERRUPTING.
THE SECOND CLASS OF ERRORS WILL OCCUR WHERE THE PROGRAM
HAS TIMED OUT AN OPERATION AND HAS NOT RECEIVED THE
APPROPRIATE CONTROL SIGNALS OR INTERRUPTS IN ORDER TO
ALLOW IT TO PROCEED TO THE NEXT OPERATION. WHEN THIS
HAPPENS, THE PROGRAM WILL TYPE AN ERROR MESSAGE AND THEN
RESET IT TIMER AND CONTINUE TO WAIT AT THAT PART OF
THE PROGRAM.

***** N O T E : *****
ALL COMMENTS, SIGNAL NAMES, ETC. REFERENCE A
STANDARD I.P.B. BOARD USING DEVICES 36,37,40,41

:NOTE:
WHEN IT IS DESIRED TO START THE PROGRAM AT A
GIVEN ADDRESS AND ALSO HAVE A GIVEN CONFIGURATION
OF DATA SWITCHES SET UPON STARTING,DO THE
FOLLOWING:
ENTER STARTING ADDRESS IN DATA SWITCHES,PRESS
"EXAMINE", RESET ALL DATA SWITCHES EXCEPT
THOSE DESIRED TO BE ON,PRESS
"CONTINUE"

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

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