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IDENTIFICATION

PRODUCT CODE! MAINDEG-8E-06J8-D PRODUCT NAME! RANDOM JMP-JMS TEST

DATE CREATED: DECEMBER 10, 1970
HAINTAINER: DIAGNOSTIC GROUP

AUTHOR: BRUCE HANSEN

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THIS IS A DIAGNOBTING PROGRAM TO TEST THE JAW INWATRUCTION OF THE POP-BE. RANDOM FROM AND TO ADDRESSES ARE SELECTED FOR EACH! TEST. THE JMP INSTRUCTION IS TESTED IN THAT EACH TEST REDUIRMS A JMP TO REACH THE JMS.

REQUIREMENTS

EDUTTHENT

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POP-8E EQUIPPED WITH TELETYPE.

STUTRECE 4 LOCATIONS SEEST-SETT

THE BREENE LEGACET NUMBER OFFORED IN THE LAST MENORY PACE.

PRECIENTINARY PROCESSION 8.Z IT IM ASSUMED THEIR MELINDED FOR CONTRA AND THURSDED FOR TAKE BREEN RUN SUCCESSIONULY.

LOADDING PROCEDURE

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STIMMTING PROCEDURE

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CONTROL MAITCH SETTINGS **म**ं १

HALT ON ERROR.

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HOULD THE TO ADDRESSE CONSTRANT SR3(8)

STARTING ADDRESS

RESTART ADDRESS - Ø215

4

A. SET BR TO BEGG AND PRESS LOAD ADDRESS.

B. IF IT IS DESIRED TO SET EITHER SR2 OR SR3, THE FROM OR TO ADDRESS MAY BE SPECIFIED BY ENTERING THE ADDRESS INTO THE LOCATIONS SHOWN BELOW

FROM = LOCATION 133

IF SAZ OR SR3 IS SET AFTER THE PROGRAM HAS BEEN STARTED, THE LAST ADDRESS TAKEN FROM THE RANDOM NUMBER GENERATOR IS USED REPEATEDLY.

G. PRESM CLEAR, AND THEN CONT.

OPERATING PROCEDURE

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SAME AS SECTION 4

ERRORS

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6.1 ERROR HALTS

ALL UNUSED MEMORY LOCATIONS ARE LOADED WITH HLT INSTRUCTIONS.

IF THE PROGRAM EXECUTES ONE OF THESE BACKGROUND HLTS, IT IS
PROBABLE THAT THE INTERRUPT FAILED TO OCCUR FOLLOWING THE JMS
INSTRUCTION. THE FROM AND TO ADDRESS MAY BE CHECKED AT ANY
TIME TO LOCATE THE FEST JMS INSTRUCTIONS.

ERROR PRINTOUTS

6.2

BRIBER BEE . BEGRE

F XXXX TO YYYY

EMME (OL)

(NNNN) a RRRR

6.2.1 EXPLANATION

(FROM) F XXXX: XXXX = ADDRESS OF UMS INSTRUCTION BEING TESTED.

(TO) TO YYYY: YYYY = ADDRESS THAT THE UMS INSTRUCTION IS GOING TO.

(TO) # MMMMM; MMMM # THE CONTENTS OF THE ADDRESS TO. THIS SHOULD EQUAL XXXX + 1.
(NNNN) # RRRR; NNNN IS THE ADDRESS MINUS ONE THAT WAS STORED IN

(NNNN) # RRRR: NNNN IS THE ADDRESS MINUS ONE THAT WAS STORED I Location brow during the interrupt. Rrrr is the content of Address nnnn.

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EXAMPLES

A. THE FOLLOWING IS A FORCED ERROR PRINTOUT NUERE NO ERROR OCCURRED.

F 5236 TO 6354

(10) = 5237

(6354) ± 5237

THE TEST LMS INSTRUCTION WAS IN LOCATION 5236. THE LMS WAS TRYING TO LUMP TO LOCATION 6434, THE CONTENTS OF TO (LOCATION 6434) WAS 5237. THIS IS CORRECT SINCE THE PC IS STORED ON A LMS INSTRUCTION.

TO GAIN ANY KNOWLEDGE FROM THE THIRD LINE OF THE PRINTOUT, THE USER MUST UNDERSTAND THE SEQUENCE OF EVENTS WHEN A JMS INSTRUCTION 16 FOLLOWED BY AN INTERRUPT. AS AN END RESULT OF THIS SEQUENCE, THE ADDRESS OF THE LOCATION FOLLOWING THE CELL WHERE THE PC IS STORED 18 PLACED INTO CELL 8. TO DERIVE THIS THIRD LINE OF THE PRINTOUT, THE ADDRESS IN CELL 8 IS DECREMENTED BY ONE AND PRINTED ON THE TELETYPES THE CONTENTS OF THAT ADDRESS ARE PRINTED.

THE FOLLOWING IS A TYPICAL ERROR PRINTOUT.

(TO) = 7482

(4354) = 5237

LINE 4 IN AGAIN BINDLY A STATEMENT OF THE PROBLEM. LINE & SAYS
THAT THE CONTENTS OF LOCATION 6694 ARE NOT 5887 AS THEY SHOULD
ME, BUT ARE 7482 TASTEND. 7482 IN A HLT INSTRUCTION. SINCE
HEMORY IS FILLED WITH A BACKGROUND OF HLT ORDERS, IT IS EVIDENT
THAT THE PC WAS NOT STORED IN LOCATION 6694 DURING THE JMS.

LINE 3 OF THE PRINTOUT REVEALS WHERE THE FC 44S STORED. SINCE ON THE INTERRUPT 4659 WAS STORED IN LOCATION READ AND (4484) CONTAINS THE CORRECTLY STORED PC, 9247, IT IS APPARENT THAT A LUND ERROR OCCURRED. THE LMS INSTRUCTION WHOLLD MANE JUMPED TO 6484, BUT IT METUALLY JUMPED TO 4484, BUT IT MANE LUNDED

THE FOLLOWING IS ANOTHER TYPICAL ERROR PRINTOUT.

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F 5236 TO 6354

(10) = 7237

(6354) = 7237

LINE 1 IS AGAIN SIMPLY A STATEMENT OF THE PROBLEM. LINE 2 SAYS THAT THE CONTENTS OF LOCATION 6354 ARE NOT 5237 AS EXPECTED, BUT ARE INSTEAD 7237. SINCE THE CONTENTS ARE NOT A HLT ORDER, 7402, IT IS EVEDENT THAT THE PC WAS STORED HERE, BUT THE NUMBER STORED WAS WRONG. COMPARING THE GOOD (5237), AND THE BAD (7237), IT IS APPARENT THAT BIT 1 WAS "PICKED UP" DURING THE STORE FC OPERATION OF THE JMS INSTRUCTION.

ERROR REGOVERY

THE PROGRAM CONTINUES TESTING FOLLOWING AN ERROR PRINTOUT. WHEN ENOUGH INFORMATION HAS BEEN GATHERED FROM THE ERROR PRINTOUS, A FROM AND TO ADDRESS IS SELECTED FOR USE IN THE SCOPE MODE LOOP. ENTER THE CHOSEN ADDRESSES INTO PROPER LOCATIONS (SEE SECTION 4.3.B). ENTER 5534 INTO LOCATION 1 AND RESTART THE PROGRAM WITH SR2 AND 483 SET.

THE SCOPE MODE LOOP IS

LOCATION CODING

BBBBB JMP 1 FROM1

NOI 'V

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OMS 1 TO

Ø134 FROM 1 A

TO DISCONTINUE THE SCOPE MODE LOOP, RESTORE THE ORIGINAL CONTENTS (7200) OF LOCATION 1 AND RESTART.

RESTRICTIONS

(NONE)

MISCELLANEOUS

FILE PIPICULE FEE

4,726 RANDOM TESTS/SECOND

PROGRAM DESCRIPTION

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THE UMS INSTRUCTION IS CHECKED THROUGH USE OF THE INTERRUPT FUNCTION. A RANDOM NUMBER GENERATOR SELECTS A FROM AND A TO ADDRESS. AN ION INSTRUCTION IS THEN PLACED AT FROM -1 AND THE UMS INSTRUCTION AT FROM. THE PROGRAM JUMPS TO THE ADDRESS SPECIFIED BY TO. AFTER EXECUTING THE ION AND JMS INSTRUCTIONS, AN INTERRUPT OCCURS STARTING THE PROGRAM COUNTER AT LOCATION 1. A CHECKING ROUTINE LOCATED HERE VERIFIES THAT THE OPERATION WAS SUCCESSFUL BEFORE STARTING THE NEXT TEST.

RANDOM ADDRESSES ARE RESTRICTED AS FOLLOWS: 0600CRANDOM A ADDRES8<7600 THE AREA BETWEEN 0600 AND 7600 IS FILLED WITH HLT INSTRUCTIONS IN CASE THE INTERRUPT FAILS.

"JB" IS PRINTED AFTER EVERY 61,000 TESTS.

17-FEB-71

V141

VRANDOM CAP-CAS TEST

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without notice. /RANDOM JMP-JMS TEST /SRØ(0)=HALT ON ERROR /SR2(1)=FIXED FROM /SR3(1)=FIXED TO /SPREAD HALTS THROUGH MEMORY /BETWEEN THE LIMLO AND LIMHI W /CLA CHECK FOR FIXED FROM CLA L00P1-6 CLIMLO CLA GETA ++4 CLA GETRAN THRE RANCE RANCE RANUM LIMHI RANUM /GET RANDOM FROM P C M P M P M P M P M M TAD GETRAN, BEGIN, LOOP, **\$200** GON, 9200 1141

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