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IDENTIFICATION

PRODUCT CODE: AC-E697D-MC
PRODUCT NAME: CXKEAD0 KE11 MODULE
PRODUCT DATE: SEPTEMBER 1978
MAINTAINER: DEC/X11 SUPPORT GROUP

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1. ABSTRACT:
KEA IS A BKMOD THAT EXERCISES THE KEA1 EXTENDED ARITHMETIC ELEMENT. IT TESTS ALL THE KEA1 INSTRUCTIONS INCLUDING LEFT SHIFT, RIGHT SHIFT, NORMALIZE, MULTIPLY, AND DIVIDE.
2. REQUIREMENTS
HARDWARE: ONE KEA1 EXTENDED ARITHMETIC ELEMENT
STORAGE:: KEA REQUIRES:
1. DECIMAL WORDS: 307
2. OCTAL WORDS: 0483
3. OCTAL BYTES: 1146
3. PASS DEFINITION:
ONE PASS OF THE KEA MODULE CONSISTS OF 10. ITERATIONS OF THE INSTRUCTION TEST SEQUENCE
4. EXECUTION TIME:
KEA RUNNING ALONE ON A PDP11/05 PROCESSOR TAKES APPROXIMATELY---MINUTES TO COMPLETE ONE PASS.
5. CONFIGURATION REQUIREMENTS:
DEFAULT PARAMETERS:
DEVADR: 177300
REQUIRED PARAMETERS:
NONE
6. DEVICE/OPTION SETUP:
NONE

7. MODULE OPERATION:

TEST SEQUENCE:

- A. SET UP KE11 REGISTER ADDRESSES
- B. TEST LEFT SHIFT -- REPORT ERRORS
- C. TEST RIGHT SHIFT -- REPORT ERRORS
- D. TEST NORMALIZE -- REPORT ERRORS
- E. TEST MULTIPLE -- REPORT ERRORS
- F. TEST DIVIDE -- REPORT ERRORS
- G. TEST MULTIPY/DIVIDE BACK TO BACK -- REPORT ERRORS
- H. IF NOT 10 TIMES REPEAT A-G
- I. REPORT END OF PASS ; RESTART AT B

8. OPERATION OPTIONS:

NONE

9. NON-STANDARD PRINTOUTS:

NONE: ALL PRINTOUTS HAVE THE STANDARD FORMATS
DESCRIBED IN THE DEC/X11 DOCUMENT

