

SYSTEMS ENGINEERING LABORATORIES PROGRAM LIBRARY

SOFTWARE DESCRIPTION

CATALOG NO. 303003B

DOCUMENTATION REV*

DATE June 15, 1970

PROGRAM TITLE: 810A/B Compare Memory to A, A Sign Test
(CMASAS)

PURPOSE: CMASAS tests every memory location with a
CMA and SAS for every type of condition,
except the first 1014_g locations.

CONFIGURATION: Basic SYSTEMS 810A/B Computer

SOFTWARE ENVIRONMENT: Stand-Alone

PROGRAM LANGUAGE: SYSTEMS 810A/B Assembly Language

0 - 1014_g plus every other
memory location

Not Relocatable

TIMING: Dependent on Memory Size

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REASON FOR CHANGE:

Changes were made to allow this program to run on the KEYTRAN System and output all messages to the selectric typewriter by setting Sense Switch 13.

USE:

After loading, set location 753g (TOP) with bits 2-3 dependent on memory size.*

Start at location zero, the program will run until manually halted.

When running under the KEYTRAN System the Diagnostic Number for this program is five (5). The program will automatically be started at location zero and will continuously run until the Index Key is depressed on the selectric typewriter at which time a halt will occur. At this time the operator must mount the KEYTRAN disc pack and depress start. The program will then seek home and halt. The operator must depress start to load the KEYTRAN System back into memory. The program will then halt at location 407g. At this time the operator must enter 2000g in the program counter and depress Start.

Sense Switch Setting:

SSW 13 up - Indicates Program being run with the KEYTRAN System and that all output will be via the selectric typewriter.

*Note

For a 4K memory -- set no bits in location 753g.
8K - bit 3
12K - bit 2
16K - bits 2 & 3

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Type-Out Formats

L xxxxxx n

where:

L = Letter C for CMA error
Letter S for SAS error

xxxxxx = The location of the erroneous instruction

n = A number, if a CMA error the number indicates the operand in memory, A is always zero. If an SAS error the number is what was contained in A. There are three possible numbers: 1, 0, -1.

Note

This program will clear every memory location above (1014)₈.