

SYSTEMS ENGINEERING LABORATORIES PROGRAM LIBRARY

SOFTWARE DESCRIPTION

CATALOG NO. 303001B

DOCUMENTATION REV*

DATE June 15, 1970

PROGRAM TITLE: 810A/B Mainframe Exerciser (MFE)

PURPOSE: A fast no-loop program designed to use each of the mainframe instructions in such a way that if a Halt occurs, the operator can tell from the program listing which instruction is malfunctioning.

CONFIGURATION: Basic SYSTEMS 810A/B Computer

SOFTWARE ENVIRONMENT: Stand-Alone

PROGRAM LANGUAGE: SYSTEMS 810A/B Assembly Language

SIZE:

2000₈ - 2355₈
3000₈ - 3022₈

TIMING:

Approx. 1MS/Cycle

SYSTEMS 303001B

REASON FOR CHANGE:

Changes were made to allow this program to run with the Keytran System by setting sense switch 13.

USE:

Start at location 2000_g, the program will run until manually halted.

When running under the Keytran System the Diagnostic Number for this program is three (3). The program will automatically be started at location 2000_g and will continuously run until the Index Key is depressed on the selectric typewriter at which time control will be returned to the Keytran Diagnostic Loader.

If a halt occurs, consult the listing or halt log using the P-Counter location to find the instruction that failed.

Sense Switch Setting:

SSW 13 up - Indicates program being run with the Keytran System.

Halt Log for Mainframe Exerciser

<u>P-Counter</u>	<u>Instruction in Error</u>
2031	AMA, SOF
2034	AMA
2043	AMB, SOF
2046	AMB
2053	LSL
2057	RSA, SMA
2064	FLL
2067	FLL

SYSTEMS 303001B

<u>P-Counter</u>	<u>Instruction in Error</u>
2074	FRA
2077	FRA
2104	LSA
2110	LSA
2114	CLA
2125	FRL
2131, 2132	CMA
2135, 2137	CMA
2142, 2143	CMA
2150, 2152	STB
2157	ABA
2164	OBA
2176	NEG, CNS, SMA
2202, 2203	SAS
2206, 2210	SAS
2213, 2214	SAS
2223	FLA, SMA
2241	RSL, FRA, RNA, TAB CLA, IAB, ASC
2245	SNO
2250	SNO
2255	LOB
2261	SMA
2264	IBS
2274, 2277	MPY
2305	MPY, SMA
2312	AMA, SMA, TBA
3003	BRU Indirect
3013	SOF
3016	SOF