

243
APPROVED BY

J. N. Snyder

IDENTIFICATION

Lower Binary Loader (One Card), MU LBL3

J. N. Snyder and M. Storm - January 10, 1957

Midwestern Universities Research Association, Madison, Wisconsin

PURPOSE

To load absolute binary program cards and execute transfer cards produced by either UA SAP or MURASS (the MURA assembler).

USAGE

Self Loading: Back loader with absolute binary cards to be loaded and transfer card. Press LOAD CARDS button.

Space Required: 0 - 23₁₀ (0 - 27₈)

Error Stop: A check sum failure results in a halt HTR 5. Loading may be continued by pressing START button.

CODING INFORMATION

This loader will load standard SHARE UA SAP-produced absolute binary cards but in addition will load MURASS-produced absolute binary cards which differ from SHARE cards in having identifying 9L6-9L9 punches. This loader will load absolute cards having any set of identifying punches in 9L1-9L12.

The check sum is never ignored.

If the loader is left in the memory, it can be called into play for the reading of more cards by transferring to location 5.

If this loader encounters a self-loading card (e. g. another binary loader) it will ingest it and transfer control to it properly just as though the LOAD CARD button had been pushed. (To this end the self-loading card must have 9L13-9L17 unpunched.)

On encountering either a UA SAP or MURASS transfer card (they are the same) a halt transfer will be executed to the transfer address. If 9L2 be punched on such a transfer card, a transfer without stopping will be made to the transfer address.

(NOTE: Except for the above extra features, the program is similar to and derived from NY BL1.)

LBL3	REM	LBL3 MURA	LOWER BINARY LOADER (ONE CARD)	MU	LBL3
	LXA	0,4	CLEAR IR4	LBL3	0001
	CPY	2,4	COPY LOADER INTO 2,3, ETC	LBL3	0002
	TXI	1,4,92767	REPEAT UNTIL LOADER IN	LBL3	0003
	HTR	31	MASK FOR WORD COUNT	LBL3	0004
	LTM		END OF CARD, LEAVE TRAPPING MODE	LBL3	0005
	RCD		SELECT CARD READER	LBL3	0006
	CPY	0	9L IN 0 AND M0	LBL3	0007
	LLS	17	WORD COUNT IN AC ADDRESS	LBL3	0008
	ANA	3	EXTRACT WORD COUNT (=WC)	LBL3	0009
	CPY	1	9R IN 1 (CHECK SUM)	LBL3	0010
	TZE	0	IF WC=0, HAVE TRANSFER CARD, GO TO IT	LBL3	0011
	PAX	0,4	IF WC NOT 0, PUT IT IN IR4	LBL3	0012
	ADD	0	(WC+LA) IN AC ADDRESS (LA=LOAD ADDRESS)	LBL3	0013
	STA	16	PLANT (WC+LA) AS CPY ADDRESS	LBL3	0014
	STA	17	AND AS ACL ADDRESS	LBL3	0015
	CAL	0	PREPARE FOR LOGICAL SUM	LBL3	0016
	CPY	0,4	COPY WORD FORM BINARY CARD	LBL3	0017
	ACL	0,4	AND ADD IT TO LOGICAL SUM	LBL3	0018
	TIX	16,4,1	REPEATING UNTIL DONE	LBL3	0019
	SLW	2	FORM (CARD SUM) - (CHECK SUM)	LBL3	0020
	CLA	2	X	LBL3	0021
	SUB	1	X	LBL3	0022
	TZE	5	IF 0, PROCEED TO NEXT CARD	LBL3	0023
	HTR	5	IF NOT 0, HALT, PROCEED ON START	LBL3	0024
	END	0		LBL3	0025