

## MULTIPLE FIELD LOADER

DECUS Program Library Write-up

DECUS NO. 8-386

The Multiple Field Loader is used to load paper tapes written in the BIN format into more than one field of core. When the user runs his program the Multiple Field Loader will automatically change the field.

In the beginning of the loader the computer stops. The user then toggles the highest field in his machine into the SR. Next he depresses CONT. The program tape should start to load.

To load a program with the Multiple Field Loader the user should do the following:

1. Have the Multiple Field Loader in core and the Binary tape of the program he wants to load in the HSR.
2. Toggle 0020<sub>8</sub> in the SR. Next depress LOAD ADDR and then START.
3. The computer will stop. Enter the highest field into the SR, then depress CONT.
4. The tape should read in. The AC bit 0 should be set and the rest of the AC should be cleared when the tape stops. If not, there is an error. Go back to step #1.

To run the user's program proceed as any other program would load.

NOTE: This loader would not be useful in the following:

(Field 0)	7776/ 7777/	Tad I 55 Dca I 45
(Field 1)	0000/	Jmp 7776

PROGRAM LISTINGS

INST 0120  
 TEMP 0122  
 ADR 123  
 K7777 124  
 K10 125  
 CIFLD 114  
 CFLD 113  
 ZRO 126

\*0020

START,	CLA CLL
	HLT
	OSR
	DCA AMOUNT
	TAD AMOUNT
	CIA
BEGN,	DCA COUNT
	JMS READ
	CLL RTL
	CLL RTL
	CLL RTL
	SNL
	JMP BEGN
	CLL
	JMS READ
PACK,	DCA ADR
	JMS READ
	CLL RTL
	CLL RTL
	SPA
	JMP END
	CLL RTL
	JMS READ
	DCA I ADR
	ISZ ADR
	SKP
	JMS CHANGE
	JMP PACK
READ,	0
	RFC
	RSF
	JMP.-1
	RRB
	JMP I READ
CHANGE,	0

	TAD I K7777
	DCA TEMP
	TAD INST
	DCA I K7777
	JMS CONT
	TAD TEMP
	DCA I ADR
	JMP I CHANGE
CONT,	0
	TAD CFLD
	TAD K10
	DCA CFLD
	ZRO
	TAD CIFLD
	TAD K10
	DCA CIFLD
	ISZ COUNT
	SKP
	JMP END
CFLD,	6201
CIFLD,	6202
	JMP I CONT
END,	TAD AMOUNT
	CIA
	DCA COUNT
	HLT
INST,	5066
TEMP,	0000
ADR,	0000
K7777,	7777
K10,	0010
ZRO,	0000

/MULTIPLE FIELD LOADER-RUN

*66	
RUN,	JMS CONT
	JMP 0





# DECUS

## PROGRAM LIBRARY

DECUS NO.	8-386
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