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IDENTIFICATION

BCD CARDS-TO-TAPE PROGRAM, MU CTH1  
1401 PROGRAM  
M.R. Storm - June 1, 1961  
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PURPOSE

To read BCD cards and transcribe them onto magnetic tape.

RESTRICTIONS

This program is designed to operate on a 4K storage 1401 model C3. It requires sense switches and the read release feature.

USAGE

The BCD cards are placed behind the program deck and loaded into the 1401. A scratch tape must be mounted on a drive selected to number 1. If this is the first batch of BCD cards read the tape should be in a rewind position since the program does not rewind before writing. Cards are written on the tape as 84-character records. The last four characters are always blank. In the event of a tape error, the program will try to rewrite the record and continue to backspace and rewrite until it passes the tape error test. When the last card is read and written on tape, the program erases and skips forward, writes the tape mark, and stops with sense switch B off. With sense switch B on, the program will rewind and unload the tape before stopping.

The following program stops are possible:

- 0200: The last card has been processed and the EOF has been placed on the tape. Another file of cards may be processed by placing them in the hopper and pressing START.
- 0209: The last card has been processed, an EOF recorded on the tape, and the tape is rewind and unloaded.
- 0238: The physical end of reel or reflective spot has been sensed.

DISCLAIMER

Although this program has been carefully tested by its contributor, no guarantee is made of its correct functioning under all conditions, and no responsibility is taken by him in case of possible failure.

0247: The reflective spot on the tape has been sensed and the tape is rewound and unloaded.

CODING INFORMATION

The program occupies storage locations 0081-0247. It uses areas 0001-0080 and 0801-0885 for temporary storage.

Cards are read at the rate of 800 per minute.

CLEAR STORAGE 1  
 CLEAR STORAGE 2  
 BOOTSTRAP CARD

,008015,022026,030034,041,045,3,049057/189,073)0491026  
 L072116,110106,105117B101/H99,027A07402B)027B00102708026/0991,001/0011171  
 ,008015,022029,056063/056029 ,0240671056

PG	LIN	CT	LABEL	OP	A OPERAND	B OPERAND	D	LOC	INSTRUCTION	COMMENTS	CTH1
1	010			ORG	0081						
1	020	4		CC	*			0084			
1	030	1		DCW	*			0085			
1	040	1	START	R				0086	1		
1	050	8	VER	MCW	(U)	0001	M	0087	M (U)	001 W	
1	060	5		B	TAPE		L	0095	B	159 L	
1	070	1	READ	R				0100	1		
1	080	5		B	LAST		A	0101	B	168 A	
1	090	7		MCW	0084	0884		0106	M	084 884	
1	100	1		SRF				0113	B		
1	110	8		MCW	(U)	0801	M	0114	M (U)	801 W	
1	120	5		B	ERR		L	0122	B	136 L	
1	130	5		B	END		X	0127	B	218 X	
1	140	4		B	READ			0132	B	100	
1	150	1	ERR	R				0136	1		
1	160	5	BST	CU	(U)		B	0137	U (U)	B	
1	170	8		MCW	(U)	0801	M	0142	M (U)	801 W	
1	180	5		B	BST		L	0150	B	137 L	
1	190	4		B	READ + 1			0155	B	101	
1	200	5	TAPE	CU	(U)		B	0159	U (U)	B	
2	010	4		B	VER			0164	B	087	
2	020	8	LAST	MCW	(U)	0001	M	0168	M (U)	001 W	
2	030	5		B	LERR		L	0176	B	209 L	
2	040	5		CU	(U)		E	0181	U (U)	E	
2	050	5		CU	(U)		M	0186	U (U)	M	
2	060	5		B	SWT		B	0191	B	200 B	
2	070	4		H	VER - 1			0196	.	086	
2	080	5	SWT	CU	(U)		U	0200	U (U)	U	
2	090	4		H	VER - 1			0205	.	086	
2	100	5	LERR	CU	(U)		B	0209	U (U)	B	
2	110	4		B	LAST			0214	B	168	
2	120	1	END	R				0218	1		
2	130	5		CU	(U)		E	0219	U (U)	E	
2	140	5		CU	(U)		M	0224	U (U)	M	
2	150	5		B	SWTB		B	0229	B	238 B	
2	160	4		H	READ + 1			0234	.	101	

2 170	5	SMTB	CU	IUI		U	0238	U IUI U
2 180	4		H	READ	+		0243	. 101
2 190	1		DCH				0247	
2 200	1		DCH	0885			0885	
2 210	1		DCH	0801			0801	
2 220			END	START				/ 086 080