

CHANGED WORD POST MORTEM  
PROGRAM NO. K7-109

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CHANGED WORD POST MORTEMPurpose:

This program is intended to compare a program and data in memory with its image on hexadecimally-punched tape, and to print out the location and nature of any discrepancies.

Input:

A program in memory, and a hexadecimal tape of the same program, with input v code and checksum. (If no checksum has been punched, the program will take the next word as checksum.)

Procedure:

With the hextape in the reader, transfer to the first location of this program. The first word of input will be the v code, which is interpreted to give the starting address and tally. The program then reads successive words from tape, compares them with the corresponding words in memory, and, if there is no discrepancy, proceeds to read the next word. If there is a difference, the program prints the track and sector in decimal, and the memory contents in hex, all in red, and halts (unless break point 16 is depressed). Upon starting, the program executes a carriage return and proceeds. When the checksum is read in, the program considers it as the contents of the address following the last location, prints the contents of this location, and halts after the carriage return, (unless breakpoint 8 is down). Starting returns the program to read a new v-code.

Storage:

2 tracks, no temporaries.

Time:

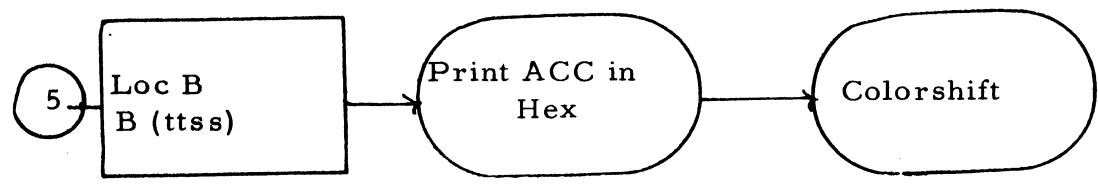
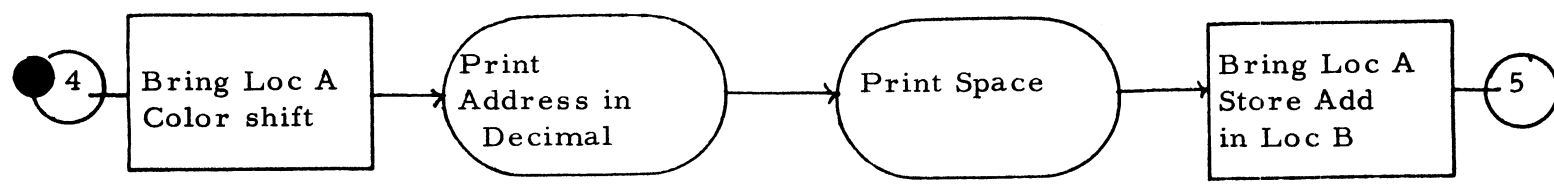
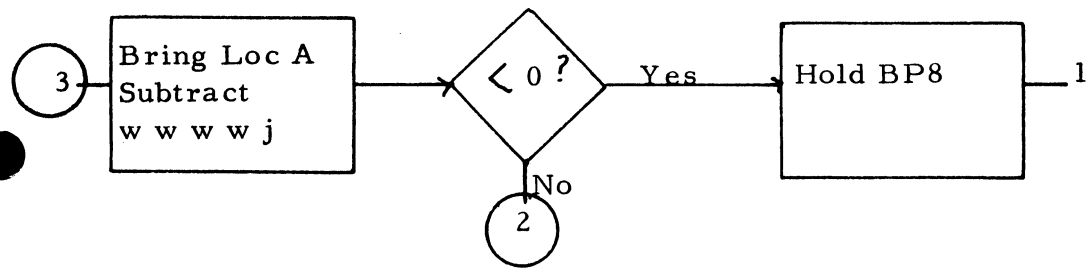
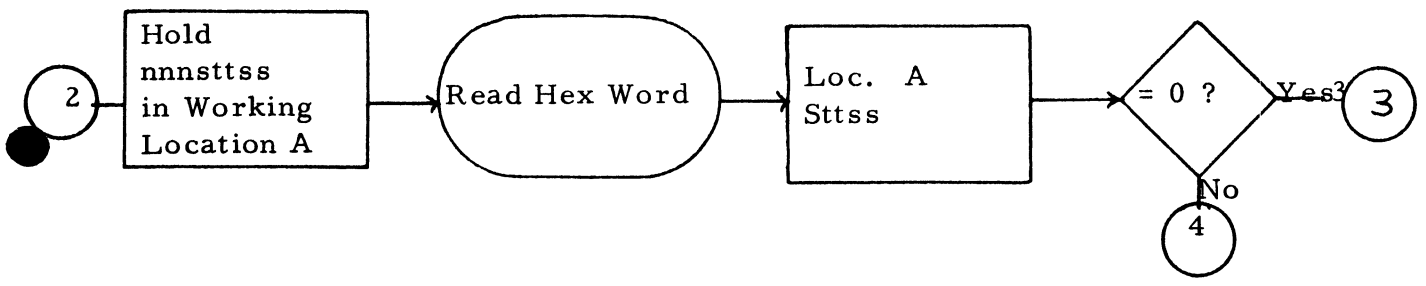
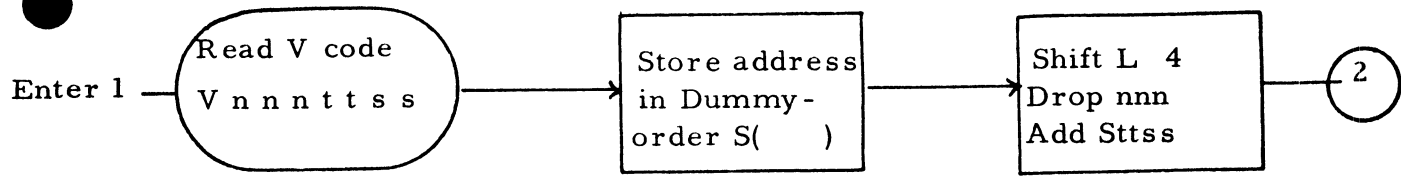
Depends upon number of changed words. 1-2 minutes per track.

Stops:

0016 (BP 8) End of section.

0149 (BP 16) End of wrong word.

0021 Subtract overflow. With sufficiently unfortunate changes in words, overflow can occur, but will cause no harm. Press start to continue.





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PROBLEM Changed Word Post Mortem TRACK 00

PROGRAM INPUT CODES	STOP	LOCATION	INSTRUCTION OP.	ADDRESS	STOP	CONTENTS OF ADDRESS	NOTES
		<input checked="" type="checkbox"/>					
		00	X P	0 0 1 5		read v code	
		01	X I	0 0 0 0		v n <sub>1</sub> n <sub>2</sub> n <sub>3</sub> t <sub>1</sub> t <sub>2</sub> S <sub>1</sub> S <sub>2</sub>	
		02	Y	0 1 5 5		S[ ]	
		03	N	0 1 5 3		<input checked="" type="checkbox"/> 1 @ 27	
		04	E	0 0 1 9		www 00000	
		05	A	0 1 5 5		Stt ss	
		06	C	0 0 2 1			
		07	X P	0 0 2 2		<input checked="" type="checkbox"/>	
		08	X I	0 0 0 0		read hex word	
		09	H	0 1 5 6			
		10	U	0 0 2 1			
		11	X Z	0 0 0 0		<input checked="" type="checkbox"/>	
		12	X P	0 3 2 7		"Space"	
		13	U	0 0 3 5			
0 0 0 0 0 0 2		14					
		15				<input checked="" type="checkbox"/>	
		16	X Z	0 8 0 0			End group 0108
		17	U	0 0 0 0			
0 0 0 0 0 0 3		18					
		19	w w w	0 0 0 0 0		<input checked="" type="checkbox"/>	
		20		2 0			
		21	S	[ ]			
		22	T	0 0 2 5		→ Comp. Fails	
		23	S	0 1 0 2		<input checked="" type="checkbox"/> 1 @ 30	
		24	T	0 1 0 6		→ Comp. O. K.	
		25	X P	1 2 1 1		"C.S."	0022
		26	U	0 0 2 7			
		27	B	0 0 2 1		<input checked="" type="checkbox"/>	
		28	R	0 1 2 6		Decimalize and	
		29	U	0 1 1 2		print track bits	
		30	B	0 0 2 1		nnn Sttss	
		31	N	0 1 0 3		<input checked="" type="checkbox"/> 1 @ 25	

C94185 MCBFE TORONTO CANADA

CONDITIONAL STOP CODE

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CARRIAGE RETURN

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PROBLEM Changed Word Post Mortem TRACK 00

PROGRAM INPUT CODES	STOP	LOCATION	INSTRUCTION OP. ADDRESS	STOP	CONTENTS OF ADDRESS	NOTES
		32	R 0 1 2 6		Decimalize	
		33	U 0 1 1 2		and Print ss	
		34	U 0 0 1 1			
		35	B 0 0 2 1		nnnSttss	0013
		36	U 0 0 5 9			005
		37	B [ t t s s ]		(t t s s) = W <sub>m</sub>	0059, 0060
		38	C 0 1 5 8		Temp 1	
		39	S 0 1 0 4		XZ 0001	0056
		40	H 0 1 0 5		Tally	
		41	A 0 0 2 0		XZ 0008	
		42	T 0 1 4 9		63	→ Hex print comp.
		43	B 0 1 5 8		Temp 1	
		44	M 0 0 5 3		1 @ 18	
		45	E 0 1 1 0		3 j 00	
		46	A 0 1 1 1		XP 0248	
		47	C 0 0 6 2			
		48	U 0 0 4 9			
		49	B 0 1 2 8		1 @ 27	0049
		50	N 0 1 5 8		7 Temp 1	
		51	U 0 0 6 2			
		52	X Z 1 0 3 3			0137
		53	X Z 3 2 0 0		1 @ 18	0044
		54	B 0 1 0 5		Tally	0058
		55	X Z 0 0 0 0			
		56	U 0 0 3 9			
		57	H 0 1 5 8		Temp 1	0063
		58	U 0 0 5 4			
		59	Y 0 0 3 7		β [ ]	0036
		60	U 0 0 3 7			
		61				
		62	XP [ ]			0051, 0047
		63	U 0 0 5 7			



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PROBLEM Changed Word Post Mortem

TRACK 01

PROGRAM INPUT CODES	STOP	LOCATION	INSTRUCTION OP. ADDRESS	STOP	CONTENTS OF ADDRESS	NOTES
,00000006		01 00			YZ 0033	0121
		01			1 @ 29	0122
		02			1 @ 30	0023
		03			1 @ 25	0031
		04			1 @ 29	0039
		05			Tally	0054,0040
		06	B 0 0 2 1		nnnStt ss	0154,0024
		07	S 0 1 2 9		wwwj	
		08	T 0 0 1 6			→ Group complete
		09	U 0 0 0 6			
		10	X Z 6 0 0 0		3j00	
		11	X P 0 2 4 8		dummy "O"	
		12	E 0 1 6 2		XZ 6300	
		13	S 0 1 6 3		30 @ 23	
		14	X Z 0 0 0 0			
		15	T 0 1 3 0			
		16	S 0 1 5 9		20 @ 23	
		17	T 0 1 3 9			
		18	S 0 1 6 1		10 @ 23	
		19	T 0 1 3 6			
		20	X P 2 6 4 9		"6"	
		21	A 0 1 0 0		XZ 0033	0142,0135
		22	N 0 1 0 1		1 @ 29	
		23	Y 0 1 2 5			
		24	X Z 0 0 0 0			
		25	P [ ]			
		26	U [ ]		Exit from Print	
		27				
		28	X Z 0 0 0 4		1 @ 27	0049
00000001		29	wwwj			0107
		30	A 0 1 5 9		20 @ 23	0115
		31	T 0 1 4 5			

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PROBLEM Changed Word Post Mortem TRACK 01

PROGRAM INPUT CODES	STOP	LOCATION	INSTRUCTION OP. ADDRESS	STOP	CONTENTS OF ADDRESS	NOTES
	<input checked="" type="checkbox"/>					
		0,1,32	S 0,1,6,1		10 @ 23	
		33	T 0,1,4,7			
		34	X,P 1,0,0,6		"2"	
		35	U 0,1,2,1	<input checked="" type="checkbox"/>		
		36	X,P 2,2,0,8		"5"	0119
		37	A 0,0,5,2			0144,0146,0148
		38	U 0,1,2,2			
		39	A 0,1,6,1	<input checked="" type="checkbox"/>		0117
		40	T 0,1,4,3			
		41	X,P 1,8,0,6		"4"	
		42	U 0,1,2,1			
		43	X,P 1,4,0,8	<input checked="" type="checkbox"/>	"3"	0140
		44	U 0,1,3,7			
		45	X,P 0,2,1,0		"0"	0131
		46	U 0,1,3,7			
		47	X,P 0,6,1,2	<input checked="" type="checkbox"/>	"1"	0133
		48	U 0,1,3,7			
		49	X,Z 1,6,0,0			0042
		50	X,P 1,2,0,8		"C.S."	
		51	X,Z 0,0,0,4	<input checked="" type="checkbox"/>		
		52	X,P 1,6,1,0		"C.R."	
		53	X,Z 0,0,0,4			0003
		54	U 0,1,0,6			
		55	S [ ]	<input checked="" type="checkbox"/>		0005,0002
, 0,0,0,0,0,0,8		56				
		57				
		58				
		59	1,4,0,0	<input checked="" type="checkbox"/>	20 @ 23	
		60				
		61	f,0,0		10 @ 23	
		62	3,w,0,0		XZ 6300	
		63	l,q,0,0	<input checked="" type="checkbox"/>	30 @ 23	

CONDITIONAL STOP CODE

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CARRIAGE RETURN