

OS - Pgm 5 COPY SECTORS over log

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Step	Instruction	Address	Comment	Octal	Step
00	*ENTRY			← BA →	00
01	LDA	1000			01
02	INCA				02
03	STA	Z 0156	Return Address, level 1.		03
04	LDA	I 1000	= P <sub>1</sub>		04
05	JSBR	Z 1630	Resolve		05
06	STA	Z 0177	→ Parameter Block		06
07	LDA	IZ 0177	= Master Disc No.		07
10	ANDA	Z 1752	Bottom Byte		10
11	IORA	Z 0344	004000 (8 sectors)		11
12	STA	1171			12
13	INSZ	Z 0177			13
14	LDA	IZ 0177	= Start Sector No., Master Disc		14
15	STA	1173			15
16	INSZ	Z 0177			16
17	LDA	IZ 0177	= Copy Disc No.		17
20	CHB				20
21	APOS		Privileged Write?		21
22	LDB	Z 0323	Bit 9 Yes.		22
23	STB	1174	Options for Write Copy		23
24	ANDA	Z 1752	Bottom Byte		24
25	IORA	1167	204000 (Write 8 sectors)		25
26	STA	1175			26
27	INSZ	Z 0177			27
30	LDA	IZ 0177	= Start Sector No., Copy Disc		30
31	STA	1177			31
32	INSZ	Z 0177			32
33	LDA	IZ 0177	→ Buffer (1K)		33
34	JSBR	Z 1630	Resolve		34
35	STA	1172			35
36	STA	1176			36
37	INSZ	Z 0177			37
40	LDA	IZ 0177	= No. of Sectors		40
41	STA	1165	Sector Count		41
42	LDA	Z 0210	CF8		42
43	STA	1164	Transfer Count		43
44	LDA	1165	Sector Count *NEXT TRANSFER		44
45	CMPA	Z 0207	CF7		45
46	HOOP				46
47	SKNGT				47
50	JUMP	1064	Full 8-sector transfer		50
51	STA	1164	Transfer Count		51
52	SWAPA				52
53	STA	Z 0177	Save		53
54	LDA	1171	Insert Revised No. of Sectors		54
55	ANDA	1166			55
56	IORA	Z 0177			56
57	STA	1171			57
60	LDA	1175			60
61	ANDA	1166			61
62	IORA	Z 0177		62	
63	STA	1175		63	
64	JSBR	IZ 1707	Duplicate * verify.		64
65	P <sub>1</sub> = 3170 -				65
66	P <sub>2</sub> = 0/0142				66
67	P <sub>3</sub> = 4 words				67
70	JSBR	IZ 1623	LOADQ (READ MASTER)		70
71	JSBR	1131	Hash-Sum		71
72	STA	Z 0146	Save Hash-Sum		72
73	JSBR	IZ 1707	Duplicate		73
74	P <sub>1</sub> = 3174 -				74
75	P <sub>2</sub> = 0/0142				75
76	P <sub>3</sub> = 4 words				76
77	JSBR	IZ 1623	LOADQ (WRITE COPY)		77

OS - Pgm 5 Copy Sectors Overlay.

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Step	Instruction	Address	Comment	Octal	Step	
00	LDA	Z 0143	} "Read"		00	
01	CHSA					01
02	STA	Z 0143				02
03	JSBR	I2 1623	LOADQ (READ COPY)		03	
04	JSBR		Hash-Sum		04	
05	CMPA	Z 0146	Same as Master?		05	
06	JUMP		Yes, continue		06	
07	LDA	Z 0040	Task No.		07	
10	JSBR	I2 1612	Octal → ASCII		10	
11	P=3150-				11	
12	JSBR	I2 1653	FLASH "HASH FAIL"		12	
13	P=3144-				13	
14	JUMP		Retry.		14	
15	LDA		Sector Count		15	
16	SFA		Sectors Transferred		16	
17	STA		Sector Count		17	
20	AND				20	
21	JUMP	I2 0156	Return - Completed.		21	
22	LDA		} } } Increment by 8 sectors.		22	
23	ADA					23
24	STA					24
25	LDA					25
26	ADA					26
27	STA				27	
30	JUMP		Out of sect transfer.		30	
31	*ENTRY		HASH-SUM	← BA →	31	
32	LDA		= No. of Sectors in transfer		32	
33	SWAPA				33	
34	RSA				34	
35	STA	Z 0177	= Word Count		35	
36	CHA				36	
37	ADA	I2 0144	} Hash Sum loop.		37	
40	INSZ	Z 0144		Pointer		40
41	DESZ	Z 0177		Counter		41
42	JUMP				42	
43	JUMP	I 1131	Return.		43	
44			CR S0		44	
45			BEL T		45	
46			A S		46	
47			K SP		47	
50			} Task No. }		50	
51						51
52						52
53				SP H		53
54				A S		54
55				H SP		55
56				F A		56
57			I L		57	
60			SI SP		60	
61			NUL		61	
62					62	
63					63	
64			Transfer Count (No. of Sectors in transfer)	-	64	
65			Sector Count	-	65	
66			MASTER	200377	66	
67			MASTER	204000	67	
70			Options	000000	70	
71		MASTER	R, N. Sectors, Disc No.	-	71	
72			→ Buffer (1K)	-	72	
73			Sector Number	-	73	
74			Options	-	74	
75		copy	W, N. Sectors, Disc No.	-	75	
76			→ Buffer (1K)	-	76	
77			Sector Number	-	77	