

OS - READ/WRITE OS

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Step	Instruction	Address	Comment	Octal	Step
00					00
01					01
02			INTERAUP.T.	← PA →	02
03	JUMP	0003	Loop - interrupt should be OFF!	020003	03
04			→ ENTRY from Control Set		04
05	JUMP	I 0006	to "OP?" routine	024006	05
06			→ "OP?" routine		06
07			SECTOR No., CONFIGURATION TABLE	000042	07
10			SECTOR No., TCAID Copy	000041	10
11			No. of Sectors, Configuration Table	004000	11
12			Recovery { PHASE 1 Source/Target		12
13			Disc Table { PHASE 2 Source/Target		13
14			{ No. of Sectors, Phase 1		14
15			{ " " " " " , Phase 2		15
16					16
17					17
20					20
21					21
22					22
23					23
24					24
25					25
26					26
27					27
30					30
31					31
32					32
33					33
34					34
35					35
36					36
37					37
40					40
41					41
42	STB	0167	(from 0107)		42
43	ESWRA			005001	43
44	JUMP	0110	None		44
45	*ENTRY		WAIT for DONE flag & Test Status.	← BA →	45
46	DONE			012770	46
47	JUMP	0046			47
50	→ DATA/STOP			016370	50
51	ANDB	0166	000777		51
52	ANB		Test status bits		52
53	INSTR	0045			53
54	→ JUMP	I 0045	Return.		54
55			"DATA/B/START"	011470	55
56			"DATA/B/STOP"	013470	56
57	*ENTRY		TRANSFER	← BA →	57
60	STA	0174	Core Address		60
61	LDA	0173			61
62	DATA/B			014670	62
63	LDA	0174	Core Address		63
64	DATA/B			014570	64
65	DATA/B/START/STOP				65
66	JSBR	Z 0045	WAIT for DONE & Test Status.		66
67	JUMP	0061	Status - retry.		67
70	→ LDA	0174	Core Address		70
71	JUMP	I 0057	Return.		71
72	JSBR	Z 0114		(from 0112)	72
73	LDA	0171		020007	73
74	JUMP	I 0004	6/0006 to indicator		74
75	DONE			(from 0104) 012770	75
76	JUMP	0075			76
77	→ JUMP	0105			77

Programmer:-

BCL/M18/PSI

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Step	Instruction	Address	Comment	Octal	Step	
00	CHB		* BOOTSTRAP	004400	00	
01	DATO3B		Drive #, each word	010670	01	
02	DATO2B		Core Address #	010570	02	
03	DATO1B/START		Sector #	011470	03	
04	JUMP	0075	Wait for disk flag	020075	04	
05	JSBR	Z 0045	Test Status	032045	05	
06	JUMP	0100	Status - retry	020100	06	
07	JUMP	Z 0042		020042	07	
10	STA	0171	* DYNAMIC ENTRY	250171	10	
11	CLA			007002	11	
12	JUMP	0072		020072	12	
13					13	
14	* ENTRY		OS LOAD/DUMP	← BA →	14	
15	LDB	0167		220167	15	
16	STB	0173		260173	16	
17	LDB	0055	"DATO1B/START"	220055	17	
20	APOS		Establish Point + write	007200	20	
21	LDB	0056		"DATO1B/IOPIS"	220056	21
22	STB	0065			260065	22
23	LDA	0163	No. of Sectors	* RETRY	210163	23
24	STA	0177	Sector Count	250177	24	
25	SWAPA			005010	25	
26	ASA			003100	26	
27	STA	0176	Word Count	250176	27	
30	LDA	0164	Start Core Address 0/0200	210164	30	
31	STA	0175		250175	31	
32	LDB	0165	Start Sector No.	220165	32	
33	JSBR	0057	TRANSFER	* NEXT SECTOR	030057	33
34	ADA	0164	CFIR	110164	34	
35	INCB			002004	35	
36	DESZ	0177	Sector Count	050177	36	
37	JUMP	0133	Out to next sector	020133	37	
40	CLA			007002	40	
41	ADA	I 0175	Calculate Word Count Check Sum	114175	41	
42	INSZ	0175		040175	42	
43	DESZ	0176		050176	43	
44	JUMP	0141		020141	44	
45	LDB	0065		220065	45	
46	CMPB	0056	"IOPIS"	240056	46	
47	JUMP	0154	This is a "write" call	020154	47	
50	CMPA	0170	Previous Checksum	230170	50	
51	JUMP	I 0114	O.K. Return	024114	51	
52	HALT		HASH FAIL	000001	52	
53	JUMP	0123	Retry	020123	53	
54	STA	0170	Insert New Check Sum	250170	54	
55	CLA		Core Address #	007002	55	
56	CHB		Sector No. #	006002	56	
57	JSBR	0057	Write T.C.L.D. Sector	030057	57	
60	LDB	0010	Sector #	220010	60	
61	JSBR	0057	Write T.C.L.D. Copy Sector	030057	61	
62	JUMP	I 0114	Return	024114	62	
63			NUMBER of SECTORS (12K-1)	95	000137	63
64			START CORE ADDRESS / SECTOR SHIP	0/0200	000200	64
65			START SECTOR NUMBER	40	000050	65
66			MASK		000777	66
67			Externally, 1 sector transfer		-	67
70			CHECK SUM		-	70
71			Save A Reg.		-	71
72					-	72
73			Drive, No. of Sectors per track		-	73
74			CORE ADDRESS (Transfer operation)		-	74
75			CORE ADDRESS (Hash Computation)		-	75
76			WORD COUNT		-	76
77			SECTOR COUNT		-	77