OS-12 System Enquiry

Sreetor.

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Step	Instruction		Address		Comment	Octal	Step
00					→ Printer ID Buffer (DECIF) 3404-		00
01					→ State Name Table 2363-		01
02					→ File Name Table 0100-		02
03	Offset Addresses					000000	03
04					H SP		04
05					Po 0/1402		05
06					SPLIT "REPEAT!" 300400		06
07					2057-		07
10	JSBR	I2	1670		FETCH * SE		10
11	P₁=100002						11
12	P₂=0/0211				Line-Ups Module (11)		12
13	CHA/STRIP				(No line-up module.)		13
14	LDA	Z	0201		Ref 1		14
15	STA		0077				15
16	LDA	I2	0077		System Dope * ISE-		16
17	JSBR	I2	1751		Unpack Dope		17
20	P₁=2072=-						20
21	LDA	Z	0106		Version No.		21
22	STA		0066				22
23	LDA	Z	1715		Core Length		23
24	JUMP	.	1043		Patch to RSA(10)		24
25	STA	Z	0177				25
26	JSBR	I2	1765		Core Length (IT)→OSCIT		26
27	P₁=0,0,1,4						27
30	P₂=0/0177						30
31	P₃=2067=-						31
32	LDA		0004		"IT SP"		32
33	STA		0011				33
34	JSBR	I2	1652		PUT Dope etc-		34
35	P₁=2063=-						35
36	JSBR		0300		Display Table Data		36
37	JSBR		0600		Display Docs on line		37
40	JSBR		0700		Display Period Q Data.		40
41	LDA		0077		Indicator		41
42	A=0						42
43	JSBR		0100		Display File Dates		43
44	LDA		0577		Auto-report Code/Order		44
45	CMPA	Z	0233		"MIL ESC"		45
46	JUMP		0347		No Auto report		46
47	JSBR	I2	1742		Load Overflow		47
50	STA		0577		Auto report Cod.		50
51	CMPA	Z	0233		"MIL ESC"		51
52	JUMP		0347		Exit Auto report		52
53	JSBR	I2	1625		SUSPEND		53
54	JUMP		0016		Continue		54
55							55
56							56
57					CR R		57
60					E P		60
61					E A		61
62					T ?		62
63					MIL CAN		63
64					L O		64
65					S -		65
66					Version No.		66
67					SP		67
70					Core (IT)		70
71							71
72					SP		72
73							73
74					System Dope		74
75							75
76							76
77					Module 11 flag. MIL	000000	77

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Step	Instruction		Address		Comment	Octal	Step
00	⚹ ENTRY				DISPLAY FILE DATA	← BA →	00
01	LDA	Z	0215		"MUL CR"		01
02	STA		0272		⎰ Initialize		02
03	LDA	Z	0240		"MUL SP"		03
04	STA		0273				04
05	JSBR	IL	1652		PUT Heading .		05
06	P₁=3050						06
07	JSBR	I2	1652		PUT Heading		07
10	P₁=3051 -						10
11	LDA		0002		→ File Name Table		11
12	STA		0177				12
13	LDA	Z	0302		CF64		13
14	STA		0176		Counter		14
15	ChA		0177				15
16	STA		0124		Feb ID		16
17	LDA	I	0177		→ Name ⚹NEXT file		17
20	AND						20
21	JUMP		0126		Bypass		21
22	STA		0125				22
23	JSBR		0200		Display Feb Alloc.		23
24	P=1				Feb ID		24
25	P₂=1				→ ASCII		25
26	INSZ		0124		Feb ID		26
27	INSZ		0177		Table Pointer		27
30	DESZ		0176		Counter		30
31	JUMP		0117		onto next file		31
32	JUMP	I	0100		return		32
33	ADB	Z	0202		CFL (from 0264)		33
34	LDA	I2	B		= No. of Sectors in File		34
35	STA		0275				35
36	ADB	Z	0202		CF2 → FSB		36
37	JUMP		0270				37
40	STA		0210		(from 0202)		40
41	JSBR	IL	1612		0-fill → ASCII (File ID)		41
42	P₁=2172½ -						42
43	JSBR	IL	1741		Store & Pad File ID		43
44	P₁=2174½ -						44
45	P₂=3401 -						45
46	P₃=3 chars						46
47	JUMP		0203				47
50	INCB				(from 0515)		50
51	LDA	I2	B		= Address		51
52	ChB						52
53	CMPA		0361		3/0775		53
54	LDB		0370		→ "UNREADY"		54
55	CMPA		0362		4/0345		55
56	LDB		0371		→ "SUSPENDED"		56
57	CMPA		0360		3/1133		57
60	LDB		0372		→ "HALTED"		60
61	BNO						61
62	JUMP		1175				62
63	STBI		0165				63
64	JSBR	IL	1741		Store & Pad Description		64
65	P₁=1						65
66	P₂=3436 -						66
67	P₃=12 chars						67
70	JUMP		1164				70
71							71
72							72
73					after Feb ID		73
74							74
75					NHL		75
76					Counter	✓	76
77					File Name Table Pointer	✓	77

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Step	Instruction	Address		Comment	Octal	Step
00	*ENTRY			DISPLAY FILE ALLOCATION	←—— BA ——→	00
01	LDA	I	0200	= File Identifier.		01
02	JUMP		0140	Patch.		02
03	INSZ		0200			03
04	LDA	I	0200	→ Name		04
05	STA		0231			05
06	INSZ		0200			06
07	JSBR	IZ	1700	Extract from FCR		07
10	P₁ = /			Word 0		10
11	CMPA		0276	201421		11
12	SKIP					12
13	CMPA		0277	201422		13
14	SKIP					14
15	JUMP		0363	Patch		15
16	ADB	Z	0204			16
17	LDA	IZ	B	= Max. record no.		17
20	DECB					20
21	SFA	IZ	B	= Min. record no.		21
22	INCA					22
23	STA		0275	= No of records allocated		23
24	JUMP		0267	Patch.		24
25	STB		0242	→ Count of Live Records		25
26	SFA	IZ	B			26
27	STA		0274	= No of free records.		27
30	JSBR	IZ	1741	Move & Pad ASCII Name		30
31	P₁ = /					31
32	B₂ = 3402½ -					32
33	B₃ = 14 chars					33
34	JSBR	IZ	1765	Allocated → ASCII		34
35	P₁ = 0,0,1,7					35
36	B₂ = 2275 -					36
37	B₃ = 3411½ -					37
40	JSBR	IZ	1765	In Use → ASCII		40
41	P₁ = 0,0,1,7					41
42	P₁ = /					42
43	B₃ = 3415 -					43
44	JSBR	IZ	1765	Free → ASCII		44
45	P₁ = 0,0,1,7					45
46	P₂ = 2274 -					46
47	B₃ = 3420½ -					47
50	LDA		0272	⌐ "NUL CR" or "NUL SP"		50
51	LDB		0273	⎰ Swap		51
52	STB		0272			52
53	STA		0273	⌐		53
54	JSBR	IZ	1725	STA		54
55	P₁ = 3400 -					55
56	JSBR	IZ	1725	STA		56
57	P₁ = 3421 -					57
60	JSBR	IZ	1652	Put slot ills		60
61	P₁ = 3400½ -					61
62	JUMP	I	0200	Return.		62
63	CMPA		0266	201424	(patch from 0215)		63
64	JUMP		0133			64
65	JUMP	I	0200	Return - Not processable file type		65
66					201424	66
67	ADB	Z	0205	→ FCR Word 8	(patch from 0224)		67
70	LDB	IZ	B	→ Stores Block	(from 0137)		70
71	JUMP		0225			71
72				⌐	⌐	72
73				⌐	⌐	73
74				No. of free records	⌐	74
75				No. of records allocated	⌐	75
76					201421	76
77					201422	77

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Step	Instruction		Address	Comment	Octal	Step
00	*ENTRY			DISPLAY TASK DATA	← ISA →	00
01	JSBR	IZ	1652	Put title		01
02	P₁ = 3000 -					02
03	ChA					03
04	STA		0377	Task No.		04
05	LDA		0377	Task No. *Next Input Task		05
06	CMPA	Z	0055	No. of I/O status		06
07	JUMP		0330	To printer loop.		07
10	JSBR		0400	Set up common fields		10
11	ADB	Z	0213			11
12	STB		0453	→ Plain Mgr Q		12
13	JSBR		0450			13
14	JUMP		0305			14
15	LDB	IZ	A	3737 - (Red Q number) (from 0415)		15
16	BNEG					16
17	JUMP		0323			17
20	COMPB					20
21	COMPSB					21
22	INCB					22
23	STB		0327	Post Q number (-ve if reports)		23
24	SFA	Z	0211	3716 -		24
25	STA		0770	→ Program Name		25
26	JUMP		0416			26
27				Fib Table No. / Post Q No.	—	27
30	LDA		0377	Task No. + Next Next Task		30
31	CMPA	Z	0051	Max Task No.		31
32	JUMP	I	0300	Return.		32
33	JSBR		0100	Set up common fields		33
34	ADB	Z	0223			34
35	STB		0453	→ Print Q for reporting		35
36	INCB					36
37	STB		0770	→ Program Name loaded in partition		37
40	SFB	Z	0211			40
41	LDA	IZ	B	= Print Id (ASCII)		41
42	STA	I	0000			42
43	LDA		1173	3423 -		43
44	JSBR		0765	Move Q Pad loaded Pgm Name		44
45	JSBR		0450			45
46	JUMP		0330			46
47	JSBR	IZ	1640	SPLIT "REPEAT?" (from 0050)		47
50	P₁ = 2006 -					50
51	SKIP			No. (Auto report)		51
52	JUMP		0016	Yes.		52
53	LDA	Z	0231	"Null EOT"		53
54	STA		0063			54
55	STA		0577	Set auto-report indicator		55
56	JUMP		0016			56
57						57
60				(Halted) 3/1133		60
61				(Unready) 3/0775		61
62				(Suspended) 4/0345		62
63				→ "CPU" 3100 -		63
64				→ "LOOP" 3102 -		64
65				→ "DISCQ" 3110½ -		65
66				→ "GET" 3104½ -		66
67				→ "PUT" 3106½ -		67
70				→ "UNREADY" 3130½ -		70
71				→ "SUSPENDED" 3135½ -		71
72				→ "HALTED" 3143½ -		72
73				Step Counter	—	73
74				→ State Name	—	74
75				→ File Table ptr.	—	75
76				→ I/O Called Once, the task.	—	76
77				Task No.	—	77

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Step	Instruction		Address	Comment	Octal	Step
00	⋆ ENTRY			SET UP COMMON FIELDS, Task data	← ISH →	00
01	INSZ		0377	Task No.		01
02	LDA		0377	= Task No.		02
03	JSBR	I2	1612	Octal → ASCII		03
04	P₁ = 3401 -					04
05	JSBR	I2	1731	Space Fill		05
06	P₁ = 3404 -					06
07	P₂ = 23 words					07
10	LDA		0377	Task No.		10
11	ADA	Z	0047	Task Grp Table Origin		11
12	LDA	I2	A	→ I/O Grp Top Area, this Task.		12
13	STA		0376			13
14	ADA	Z	0207	Crc		14
15	JUMP		0315	→ Print Q No. for Post Mn.		15
16	ADA	Z	0257	3775 - (→ Fcb Table Mask)		16
17	STA		0375			17
20	STA	Z	0267	3706 -		20
21	LDA	I2	A			21
22	CLSA			Places Page		22
23	JSBR	I2	1605	Address → ASCII		23
24	P₁ = 3413½ -					24
25	LDA		1163	3405½ -		25
26	P₁ = JSBR		0765	Move Critical Name		26
27	P₂ = NOOP					27
30	NOOP					30
31	JSBR	I2	1765	Post Q No. → ASCII		31
32	P₁ = 0, 1, 4					32
33	L₂ = 2327 -					33
34	P₃ = 3410½ -					34
35	LDA	Z	0215	"ML CR"		35
36	STA		1400			36
37	JSBR	I2	1710	Clear Core		37
40	P₁ = 3433 -					40
41	P₂ = 15 words					41
42	JSBR		0500	Trace State No.		42
43	JUMP		0460	Patch.		43
44	JSBR	I2	1775	Store Byte (Fcb Table No.)		44
45	P₁ = 3427 -					45
46	LDB		0376	→ I/O Control Area.		46
47	JUMP	I	0400	Return.		47
50	⋆ ENTRY			Output	← YA →	50
51	JSBR	I2	1765	U-Q → ASCII		51
52	P₁ = 0, 0, 1, 4					52
53	P₂ = /					53
54	P₃ = 3120 -					54
55	JSBR	I2	1652	MGT Task Data		55
56	P₁ = 3100½ -					56
57	JUMP	I	0450	Pattern.		57
60	LDA	I	0375	3775 -⌉ Fcb Table Mask (from 0442)		60
61	APOS					61
62	INCA			⌡ Obtain Fcb Table No.		62
63	LRA					63
64	ANDA	Z	0203			64
65	STA		0327	Save Fcb Table No.		65
66	ADA	Z	0014	→ System Table Origin		66
67	LDA	I2	A	= System No.		67
70	STA	Z	0177			70
71	JSBR	I2	1765	System No. → ASCII		71
72	P₁ = 0, 0, 1, 4					72
73	L₂ = 0/0177					73
74	P₃ = 3430 -					74
75	LDA		0327	Fcb Table No.		75
76	JORA	Z	0260	Convert → ASCII		76
77	JUMP		0444			77

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Step	**Instruction**		**Address**	**Comment**		**Octal**	**Step**
00	✱ ENTRY			TRACE STATE		← BA →	00
01	LDA	→	0061				01
02	STA		0374	→ → "CPU"			02
03	LDA		0377	Task No.			03
04	CMPA	Z	0040	Current Task			04
05	JUMP		1164	Found!			05
06	INSZ		0374	→ → "PAUSE"			06
07	LDB	Z	0050	→ First Suspend Element	✱ Search Suspend Stack		07
10	BNØ				✱ Next element		10
11	JUMP		0520	Not in Suspend Stack			11
12	STB	Z	0177				12
13	INCB			→ Task No.			13
14	CMPA	I2	ØØ	Task No.			14
15	JUMP		0150	Found in Suspend Stack			15
16	LDB	I2	0177	→ Next			16
17	JUMP		0510	onto next element.			17
20	INSZ		0374	→ → "DISCØ"			20
21	JUMP		0542				21
22	LDA	I	0376	Device Codes			22
23	ANDA	Z	1753	(Removes Input Device)			23
24	ANØ						24
25	JUMP	I	0500	Return (not an I/Ostation) (Task is lost!)			25
26	INSZ		0374	→ → "GET"			26
27	LDB		0376	→ TCA			27
30	ADB	Z	0202				30
31	LDA	I2	B	= Return address (GET)			31
32	A=Ø						32
33	JUMP		1175	found!			33
34	INSZ		0374	→ → "PUT"			34
35	INCB						35
36	LDA	I2	B	= Return address (PUT)			36
37	A=Ø						37
40	JUMP		1175	found!			40
41	JUMP	I	0500	Return (task is lost!)			41
42	LDB	Z	0205	CFS	(from 0521)		42
43	STB		0373	Counter			43
44	LDB	Z	0052	Dev Cont Table origin			44
45	ADB	Z	0267				45
46	STB	Z	0177	Cntrl Table pointer			46
47	LDB	I2	0177	= Control Word	✱ Next Dev Q		47
50	JUMP		0573	Hold			50
51	BNØ						51
52	JUMP		0561	End of this queue.			52
53	STB	Z	0176	→ Head Q element			53
54	INCB						54
55	CMPA	I2	B	Task No.			55
56	JUMP		0565	found!			56
57	LDB	I2	0176	→ Next element in queue.			57
60	JUMP		0554				60
61	INSZ	Z	0177	Table pointer			61
62	DESZ		0373	Counter			62
63	JUMP		0547	onto next device			63
64	JUMP		0522	Continue trace (not in disc dev queue)			64
65	INCB						65
66	LDA	I2	B	= Options, DebID.			66
67	ADB	Z	0214				67
70	LSA/ANDB →						70
71	DECB			(2 Elevd)			71
72	JUMP		1174				72
73	CMPB	Z	0376	CF=1	Hitch from 0550		73
74	JUMP		0561	Bypass this device			74
75	CASB						75
76	JUMP		0551				76
77				Active Repeat Indicator	"NYL ESC"		77

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Step	Instruction	Address		Comment	Octal	Step
00	*ENTRY			DISPLAY DISC LIST	← KA →	00
01	JSBR	I2	1652	PUT "DISCS ON LINE"		01
02	P_1= 2660½ -					02
03	LDA	Z	0204	CF4		03
04	STA		0677	Counter		04
05	LDA	Z	0270			05
06	STA		0676	12 discs ???		06
07	LDB		0676	Device Code	* Next Device	07
10	ADB	Z	0053	Disc text Origin		10
11	LDA	I2	B			11
12	ANDD					12
13	JUMP		0640	Bypass this controller		13
14	ANDA	Z	1752	Bottom byte (leaves offset to disc entry)		14
15	ADA	Z	0053	Disc text Origin		15
16	STA		0675	Pointer		16
17	LDA	I2	B			17
20	SWAPA					20
21	ANDA	Z	1752	Bottom byte (No. of discs)		21
22	STA		0674	Disc Counter		22
23	LDA	I	0675	= Disc No. if loaded		23
24	APOS					24
25	JUMP		0652	Offline -		25
26	JSBR	I2	1612	Octal → ASCII		26
27	P_1= 2670½ -					27
30	LDA	Z	0374	"SP SP"		30
31	STA		0671			31
32	JSBR	I2	1652	PUT Disc No.		32
33	P_1= 2671 -					33
34	INSZ		0675	Pointer		34
35	INSZ		0675			35
36	DESZ		0671	Disc Counter		36
37	JUMP		0623	Output next disc		37
40	INSZ		0676	Device Code		40
41	DESZ		0677	Counter		41
42	JUMP		0607	Output next device		42
43	LDA	I2	0073	→ Spool FCB		43
44	ADB	Z	0030	Spooling Activity Counter		44
45	B=0					45
46	JUMP		0730	Calculate c/o utilization		46
47	JSBR	I2	1652	PUT		47
50	P_1= 3150 -					50
51	JUMP	I	0600	Return.		51
52	JSBR	I2	1652	PUT "*D*"		52
53	P_1= 2655 -					53
54	JUMP		0634			54
55				SP SP		55
56				* *		56
57				* WUL		57
60				CR		60
61				LF D		61
62				I S		62
63				C S		63
64				SP O		64
65				IV SP		65
66				L I		66
67				N E		67
70				NUL		70
71				"SP SP"		71
72						72
73				NUL		73
74				Disc Counter	—	74
75				Pointer	—	75
76				Device Code	—	76
77				Counter	—	77

Programmer:-

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Step	Instruction	Address		Comment	Octal	Step
00	*ENTRY			DISPLAY PRINT Q DATA	←—BA—→	00
01	JSBR	IZ	1652	PUT "NON-EMPTY PRINT QUEUES "		01
02	P₁= 3113½-					02
03	JUMP		1075			03
04	STA		1477	Counter		04
05	LDA	Z	0022	→ Print Q Table Origin		05
06	STA		1476	Pointer		06
07	CLA					07
10	STA		1475	Q No.		10
11	INSZ		1475	Q No. ← NEXT Q		11
12	INSZ		1476	} pointer		12
13	INSZ		1476	}		13
14	LDA	I	1476			14
15	ANO					15
16	JUMP		0725	bypass - Q is empty.		16
17	JSBR	IZ	1765	Q No. → ASCII		17
20	P₁= 0,0,1,5					20
21	P₂= 3475-					21
22	P₃= 3472½					22
23	JSBR	IZ	1652	PUT Q No.		23
24	P₁= 3472½-					24
25	DESZ		1477	Counter		25
26	JUMP		0711	Q's not		26
27	JAMP	—	1040	Path		27
30	ADA	Z	0204	(from 2644)		30
31	LDA	IZ	A	= Hex Spool Record No.		31
32	STA		1477			32
33	JSBR	IZ	1747	COMPUTE % utilization of Spool file		33
34	P₁= 1, 0/0476			In use		34
35	P₂= 1, 0/0313			CF 100		35
36	P₃= 1, 3477-			Hex		36
37	P₁= 3475-					37
40	JSBR	IZ	1765	% → ASCII		40
41	P₁=0,0,2,5					41
42	P₂= 3475-					42
43	P₃= 2756-			· ·		43
44	JSBR	IZ	1652	PUT Spool usage		44
45	P₁= 2747-					45
46	JUMP	I	0600	return.		46
47				{ SP SP		47
50				SP P		50
51				R I		51
52				N T		52
53				SP S		53
54				{ P O		54
55				O L		55
56				}		56
57				}		57
60				% }		60
61				SP F		61
62				U L		62
63				L FUL		63
64						64
65	*ENTRY			Move Spool file Name	←—BA—→	65
66	STA		0775	start		66
67	JSBR	IZ	1707	Displacode		67
70	P₁=			(not log 0325 and 0337)		70
71	P₂= 3475-					71
72	P₃= 2 words					72
73	JSBR	IL	1741	Move Spool file Name		73
74	P₁= 3475-					74
75	P₂=					75
76	P₃= 4 chars					76
77	JUMP	I	0765	return.		77

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Step	Instruction	Address		Comment		Octal	Step
00					CR LF		00
01					SP T		01
02					A S		02
03					K		03
04							04
05							05
06							06
07 .							07
10					P O		10
11					S T		11
12					- Q		12
13							13
14					B		14
15					A S		15
16					E		16
17							17
20					U -		20
21					Q		21
22					L		22
23					O A		23
24					D E		24
25					D SP		25
26					SP F		26
27					π N		27
30					SP S		30
31					Y S		31
32					SP SP		32
33					P H		33
34					A S		34
35					E CP		35
36					SP A		36
37					T NUL		37
40	JSBR	IL	1652	PUT "SYN"	(from 0727)		40
41	H=0/0226½						41
42	JUMP	I	0700	Return			42
43	SWAPA				(from 0027)		43
44	RSA						44
45	RSA						45
46	ANDA	Z	0277				46
47	JUMP		0025				47
50					CR LF		50
51					I D		51
52					π F		52
53					I L		53
54					E SP		54
55					N A		55
56					M E		56
57					- .		57
60					: -		60
61					R E		61
62					C O		62
63					R D		63
64					S -		64
65					- -		65
66					L I		66
67					V E		67
70					- -		70
71					- F		71
72					R E		72
73					E SP		73
74					SP NUL		74
75	LDA	Z	0057	Here Q No.	(from 0703)		75
76	ADA	Z	0061	Find Q 'Extension' Count			76
77	JUMP		0704				77

Programmer:-

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Step	Instruction		Address		Comment			Octal	Step
00						C	P		00
01						U	NUL		01
02						L	O		02
03						O	P		03
04						NUL	G		04
05						E	T		05
06						NUL	P		06
07						U	T		07
10						NUL	D		10
11						I	S		11
12						C	Q		12
13						NUL	CR		13
14						N	o		14
15						N	-		15
16						E	M		16
17						P	T		17
20						Y	SP		20
21						P	R		21
22						I	N		22
23						T	SP		23
24						Q	U		24
25						E	U		25
26						E	S		26
27						SP	SP		27
30						NUL	SO		30
31						U	N		31
32						R	E		32
33						A	D		33
34						Y	SI		34
35						NUL	SO		35
36						S	y		36
37						S	P		37
40						E	N		40
41						D	E		41
42						D	SI		42
43						NUL	SO		43
44						H	A		44
45						L	T		45
46						E	D		46
47						SI	NUL		47
50						SP	SP		50
51						SP	P		51
52						R	I		52
53						N	T		53
54						SP	S		54
55						P	O		55
56						O	L		56
57						SP	E		57
60						H	P		60
61						T	Y		61
62						SYN	NUL		62
63					(loadkey 0425)		3405½ -		63
64	LDA	I	0374	→ASCII		*PHASE found			64
65	STA		1167						65
66	JSBR	IL	1741	Octave Check.					66
67	$P_1 = \checkmark$								67
70	$P_2 = 3423 -$								70
71	$P_3 = 6dump$								71
72	JUMP	I	05m	return.					72
73	)				(loadkey 0241)		3423 -		73
74	LDA	IL	✓		(from 0572)				74
75	JSBR	IL	1605	A(0522)→OS(TI)		* full screen buf.			75
76	$P_1 = 3436 -$								76
77	JUMP		1164						77

DS-12 4   (groot) work Area

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Step	Instruction	Address	Comment	Octal	Step
00			Nul CR		00
01			ID		01
02			Tablela		02
03					03
04			SP SP		04
05			SP Name		05
06			Page roup		06
07			SP		07
10			SP		10
11			Port QNo.		11
12			SP		12
13			SP Allocation		13
14					14
15			Core Tulle		15
16			In Use		16
17					17
20			U-Q		20
21			Free		21
22			SP SP Free		22
23			Realed		23
24			Nul		24
25			SP SP		25
26			SP SP		26
27			fin / SP		27
30			System		30
31					31
32			SP SP		32
33					33
34			State		34
35					35
36					36
37			at		37
40			description		40
41					41
42					42
43					43
44					44
45					45
46					46
47					47
50					50
51			///////////////		51
52					52
53					53
54					54
55					55
56					56
57					57
60					60
61					61
62					62
63					63
64					64
65					65
66					66
67					67
70			Auto-repeat Page counter		70
71					71
72					72
73			Qnmds		73
74					74
75			Q Nnmdg Page %		75
76			Print Table post-op Pickup		76
77			Counter		77

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