SYSTEM ANALYST DOS-M COURSE

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SYSTEM ANALYST DOS-M COURSE OUTLINE

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I. INTRODUCTION

- A. Minimum Hardware Requirements
 - I. Why DOSM?
 - 2. DOS/DOSM minimum hardware [SLIDE I]
 - 3. Cost Comparison
 - 4. Comparison to competitor (IBM 1130) [SLIDE IA]
 - 5. DOSM Hardware options [SLIDE IB]
- B. Advantages and Disadvantages [SLIDE 2]
 - I. ADVANTAGES (Special Points)
 - a. Another cabinet and power supply needed when number of drives is expanded to 3 or 4.
 - b. User could operate in his own instrument driver environment if no MP (Memory Protect).
 - c. If User does not want EAU or clock, he is not forced to have it. Gains one more I/O channel without TBG option.
 - d. Easy creation of System Backup (which will not be hardware protected) on Cartridge.
 - e. Multiple System Discs with different configurations on separate drives.
 - f. Exchange of user files between systems even though systems may be configured differently.
 - g. Hardware protection scheme using DISC PROTECT OVERRIDE SWITCH and PCI (Protected Cylinder Indicator).
 - h. Operation with USER DISCS Labeled to avoid using incorrect cartridge.
 - Minimum core resident system reduced from DOS (DVRØ5 and DVR31 changes).

2. DISADVANTAGES (Special Points)

- Three bootstraps (cover details later).
 Method of System Start-up.
- b. No plans at present for moving head RTE or TSB. Some talk for ISS system (ISS disc cost about \$ 35,000 and has about 12 million word storage).
- c. Better to lose sale rather than deliver an 8K system that will "strangle" customer's programs (during loading or execution).

 Just because JOBPR will fit is not any indication that system will be adequate.

C. IOMEC Overall Description

I. CONTROLLER [SLIDE 3]

- a. Interface between computer and drive(s).
- b. Interface cards on computer side.
 - (1) Identical electronically except for positions of jumper wires.
 - (2) Signals inverted from positive-true/ ground-false logic to ground-true/ positive-false to be compatable with controller.
 - (3) DATA CHANNEL Transfers data, status, and addressing information. DMA controls data; program controls status and addressing.
 - (4) COMMAND CHANNEL Transfers commands, drive selection, and drive attention bits (LSB). All under program control.

- 2. DRIVE (Maximum of 4 per controller)
 - a. Fixed Disc and Removable Cartridge.
 - b. Movable heads and their numbers.
 - c. Power ON/OFF.
 - d. Cartridge LOCK/UNLOCK and light.
 - e. READY light.
 - f. Physical description of PACK.
 - (1) Opening at rear for heads entry.
 - (2) Opening underneath for forced air.
 - (3) Rim markers for TRACK/SECTOR origins.

3. DISC

- a. Physical storage capacity breakdowns [SLIDE 4].
- b. Physical layout [SLIDE 5].
- c. Addressing [SLIDE 6].
 - (1) Physical (Drive, Cylinder, Head, Sector).
 - (2) Logical (Subchannel, Track, Sector). Software inverts (complements) lower order bit of subchannel # for higher order bit of head #.
- d. Sector Address and Data Fields [SLIDE 7].
 - (1) INITIALIZE WRITE COMMAND is used for controller to construct and write the Sector Address Field with PCI=DCI=Ø (only disc formatting seciton of generator does this).
 - (2) WRITE PROTECTED COMMAND is used for controller to set PCI=I in Sector address field (only generator does this).
 - 3) WRITE DEFECTIVE COMMAND is used for controller to set DCI=1 in Sector Address Field Only \$EX2Ø makes this call (DVR31 will accept under system operation).

(Continued)

- (4) Controller does not send back any status on PCI or DCI if DISC PROTECT OVERRIDE SWITCH is "ON" (i.e. UP). This switch must be "ON" when executing (I), (2), or (3) on the preceding page!
- D. DOSM Software and Relationship to Discs
 - 1. Components [SLIDES 8A, 8B, 8C, 8D].
 - 2. Disc to Memory Transfers [SLIDE 9].
 - 3. DOSM General Core Layout [SLIDE IØA].
 - a. EQT Format [SLIDE IØB].
 - b. DRT Format [SLIDE IØC].
 - c. INT Table Format [SLIDE 10D]
 - 4. Discs Layout
 - a. Concept of "SYSTEM" and "USER" Discs.
 - b. Oversimplified "SYSTEM" disc layout [SLIDE HA].
 - c. More detailed "SYSTEM" disc layout [SLIDE IIB].
 - d. User disc layout [SLIDE IIC].
 - e. Label Sectors
 - (1) System Disc [SLIDE 12A].
 - (2) User Disc [SLIDE 12B].
- E. System Startup Operation Example with block diagrams.
 - Execution of Configured Supplied Bootstrap
 [SLIDE 13A.1].
 - a. Loads Disc Resident Bootstrap into high core, relocating it as necessary.
 - b. Transfers control to start of DRB just loaded.

- E. SYSTEM Startup Operation Example with block diagrams.
 - 2. Execution of Disc Resident Bootstrap [SLIDE 13A.2].
 - a. Loads Core Resident System from System Disc in four parts.
 - b. Configures continuator section of DVRØ5 and DVR31.
 - c. Transfers control to \$STRT in DISC MONITOR by JMP 3,1.
 - 3. Disc Monitor First Entry [SLIDE 13A.3].
 - a. \$STRT calls \$MDLD to transfer control to
 \$EX12 (System Startup).
 - b. \$MDLD makes decision whether to load \$EX12 from Disc (if Disc Resident) then transfers control to \$EX12.
 - 4. Execution of \$EXI2 [SLIDE I3A.4].
 - a. Sets (MP FENCE ADDRESS = UMFWA) with OTA 5.
 - b. Reads System Buffer Sector to Base Page.
 - c. Builds new System Buffer Sector and writes back on disc if not valid one (i.e., does not end with "SB").
 - d. Calls \$SYIO to output "INPUT :DATE,XXXXXX,H,M" on System TTY.
 - e. Sets input request code = "DA" and transfers control to \$TYPE for System K.B. Input.

- 5. Execution of \$TYPE for System K.B. Input [Scribe 13A.4].
 - a. Calls \$SYIO to output (CR) (LF) 🚯 .
 - b. Calls \$SY10 to input 72 characters into JOB INPUT BUFFER.
 - c. \$SY10 calls \$TEST routine to force :DA input.
 - d. If :DA not inputted, calls \$SY10 to output "IGNORED" and goes to b. above.
 - e. If :DA inputted, transfers control to \$JLOD to load and branch to JOBPR.
- 6. Execution of \$JLOD to load JOBPR [SLIDE 13A.6].
 - a. \$JLOD calls DISCX twice to read in JOBPR (MAIN and Base Page) and then transfers control to JOBPR main entry point.
 - b. Each call to DISCX results in call to \$DISC which in turn calls \$SYIO to read DISC.
- 7. Execution of JOBPR to Update System Buffer Sector [SLIDE 13A.7].
 - a. Date routine in JOBPR reads System Buffer Sector from Disc to its own internal buffer by JSB EXEC call.
 - b. Updates DATE, LU TABLE entries, and Defau!t User Labe! in System Buffer Sector.
 - c. Writes updated System Buffer Sector back on Disc by JSB EXEC call.
- 8. Execution of JOBPR to report Default
 USER DISC SUBCHANNEL # and LABEL [SLIDE 13A.8].
 - a. Date Routine continues by executing EXEC call to request CURRENT USER DISC SUBCHANNEL # and LABEL.
 - b. \$EX17 is used just as if :UD directive had been entered.

- c. Point out that if GENERATION CODE or PROPRIETARY CODE do not agree with System Disc, ERROR MESSAGE may be printed here.
- d. At end JOBPR then calls \$TYPE for System TTY to output CR LF and @ and to input from Keyboard.
- 9. Summary of I-8 above.
 - a. JOBPR is a USER PROGRAM and must do a!! I/O by JSB EXEC.
 - b. At end of 8 above, the JOBPR remains in memory until :PROG,X entered or :OFF given in response to * (here \$CLER loads JOBPR fresh).
 - c. No part of Core Resident System ever does any I/O by JSB EXEC; always does by \$SYIO.
 - d. MP and Interrupt System "ON" when in USER
 AREA. MP and Interrupt System "OFF" when in System Area.
 - f. DOSM I/O REQUEST PROCESSING [LARGE CHART].

II. OPERATIONAL DIFFERENCES FROM DOS

- A. System Startup
 - Bootstrap rather than BBDL (at X776Ø).
 - DOS procedure using BBDL.
 - b. DOSM procedure using Bootstrap [SLIDES 14A & 14B].
 - (I) Configure and execute.
 - or (2) Configure, punch configured bootstrap, load configured bootstrap.
 - c. No "FR" or "CO" entry statement as in DOS.
- B. NEW DIRECTIVES
 - 1. :OFF [SLIDE 15].
 - a. Does not clear Job Binary Area.
 - 2. :1N [SLIDE 16A & 16B]
 - a. Can prepare discs for use in DOSM that were formatted by other software
 - b. DISC PROTECT OVERRIDE SWITCH must be "ON" to purge a protected Disc (PCI=I).
 - 3. :UD [SLIDES 17A, 17B].
 - 4. :DD [SLIDE 18].
 - a. No SDUMP with DOSM: do not need!
 - Source Disc for User Area is current user disc.
 - 5. :SS [SLIDES 19A, 19B].
 - a. Duplicate file handling
 - 6. Example Slides using the above directives. [SLIDES 20A, 20B, 20C].
- C. Operational Difference Summary [SLIDES 21A, 21B, 21C, 21D].

III. PROGRAMMING DIFFERENCES FROM DOS

- A. New EXEC call to change user disc [SLIDES 22A, 22B, 22C].
 - :EJOB resets changes made.
 - 2. Error messages if incorrect SYSTEM GENERATION or SYSTEM PROPRIETARY CODE, but assignment still made.
- B. DOS/DOSM EXEC calls with negative request codes [SLIDE 23Å].
- C. DOSM Disc I/O with EXEC calls [SLIDE 23B].
- D. EXEC calls difference summary [SLIDE 24].
- E. Other important points.
 - 1. If MP option not used the following are valid.
 - a. All I/O instructions and HALT
 - b. Base page modifications.
 - c. Special interaction with DISC MONITOR (DISCM).
 - 2. LOADR is unaffected by :SS condition. File searches it initiates are for only current user disc. Order of scanning is:
 - a. JOB BINARY (if any programs in it)
 - b. USER FILES (if any given)
 - c. PAPER TAPE (if specified)
 - d. DISC RESIDENT RELOCATABLE LIBRARY

IV. INSTALLATION

- A. Introduction to System Generation.
 - Binary tapes needed [SLIDES 3ØA, 3ØB].
 - 2. Preliminary Considerations
 - a. Medium of Input
 - (I) Paper tape.
 - (2) Magnetic tape (restrictions with FORTRAN IV in 8K).
 - (3) Combination
 - b. Core size [SLIDE 31] -- GENERAL (Projecture #1)
 - (1) Speed of System Operation needed.
 - (2) Core Resident versus Disc Resident EXEC Modules and 1/0 Drivers.
 - (3) System Modules size breakdown [SLIDE 32] (Projecture #2).
 - a. Minimum System Analysis using slides 31 and 32.
 - c. Particular needs for given application.
 - d. System and User Disc subchannel declaration.
 - (1) More efficient (time wise) if System and User Discs are on different drives, depending on what System is doing.
 - e. Other System Discs considerations.
 - (I) If both generated so that linkage and DISCM are in same place, then user main programs LOADED on one system would "RUN" and be compatable with the other. Location of EXEC entry in DISCM must be same; # links must be enough; Etc...

[PAGE 10]

- f. Hardware required for Generation.
- 3. Starting System Generator
 - a. SIO Configuration loading Generator.
 - b. All equipment to be used "ON".
 - c. Disc Drive for Generated system "READY".
 - d. Disc Protect Override Switch "ON".
 - e. Starting Generator (S.A. = 100 octal).
 - (1) Switch 15 DOWN for Straight Generation.
 - (2) Switch 15 UP only for User Disc Formatting.
- 4. Brief description of the four PHASES and ability to restart at any one at 100 octal.
- B. System Generation Procedure and Example
 - 1. Initialization Phase [SLIDE 4ØA].
 - Responses to questions about the System (in general) to be generated.
 - b. System Generation Code maximum 4 decimal positive digits. Written in Label Sector of System Disc.
 - c. # Sectors/Track Actually # Sectors/Physical track which is 12 for low density disc.
 - d. System Disc Size actually # cylinders.
 - First System Sector System uses first
 3 sectors on track Ø of System Disc.
 - f. 2114 question only for DMA considerations (only one DMA Channel available on 2114B).
 - g. Program Input, Library Input questions -Unimportant whether PT or MT entered here
 - (!) MT may not be used for FORTRAN IV in 8K.
 - (2) DF also valid entry for disc file input. (\$10 driver for IOMEC available later).

- h. Parameter Input question only applies to PARAMETER INPUT PHASE.
- 3. Program input and Parameter input Phases [SLIDE 40B].
 - a. Input device selected via S.R. switches Ø-1.

ØØ2 - PROGRAM INPUT

102 - LIBRARY INPUT

Ø12 - TERMINATE LOADING

- b. Restrictions
 - DISCM should be loaded first for intersystem compatability.
 - (2) Main Programs (like FTN) must be loaded
 prior to segments (like FTNØl,
 FTNØ2, ... etc.)
 - (3) If generating 8K system with FORTRAN IV no Compilers, or Assembler may be loaded at this time. (Must be loaded using LOADR during System operation).
- c. If undefined externals exist (message printed), may load module forgot by setting S.R. accordingly as in a. above and pressing "RUN".
- d. During PARAMETER INPUT PHASE, be sure to declare other routines (\$SRCH, \$LBL, etc...) core resident too if certain EXEC modules are declared core resident. Generator will not flag if omitted.
- e. LINKAGE QUESTIONS
 - (1) #SYSTEM LINKS only used by Core Resident System.
 - (2) #USER LINKS only used by User Programs
 - (3) To make DISCM start at 2000 octal (page boundary) respond with 177 and 500 respectively.

- f. Switch 15 must be up for Subroutines (indented two spaces) and entry points (preceded by "*") to be printed in memory allocation listing.
- 3. Disc Loading Phase (class follows Xerox of Generation).

	•	[SLIDE]	[SLIDE]
	TOPIC	MAIN PROJECTOR	AUXILIARY PROJECTOR
a.	Links	AP-1	
b.	Loc. 4-Start of	Links-AP-I	AP-6
c.	Core Res Prog &	Links-AP-I	AP6-13
d.	Equip. Table	AP-1,AP-2-	AP-14
e.	DRT + Int. Table	esAP-1,AP-3-	AP-14
f.	Disc Res. Exec M	1odAP-1,AP-4-	AP-14
	TABLE		
g.	Disc Res Exec. M	10dAP-1	AP-5
h.	Disc Res. I/O Dr	ivers-AP-I	AP-5
i	Disc Res User Pr	ogAP-1	AP-5
j.	Value of A-Reg.	at end (do on s!	ide 40J)
k.	Listing of :EQ &	:LU [SLIDE AP-5]

- C. Formatting User Discs or Cartridges [SLIDE 41].
 - Example printout [SLIDE 42].

V. INTERNAL SYSTEM ORGANIZATION

- A. Format for Disc Files
 - (i) Absolute (Core Image) [SLIDE 43].
 - (2) Relocatable [SLIDE 44].
 - (3) ASCII Source Statements [SLIDES 45A, 45B].
 - (4) ASCII or Binary Data.
 - a. System simply reserves space does not set initial file contents to any value(s).
- B. Disc Layout for Generation Example

TOPIC	MAIN PROJECTURE	AUX. PROJECTURE
Overall Disc Layout	5Ø	
System Label Sector	51	AD-1
Disc Resident Bootstra	ap 5Ø	AD-I
System Directory	50,52	AD-1 → AD-3
Core Res. Sys. (#2)	50,53	AD-3 AD-10
Core Res. Sys. (#3)	50,54,55	AD-10
Disc Res. Programs	5Ø,5 6	AD-1Ø → AD-24
Core Res. Sys. (#4)	50,57,58	AD-25
Core Res. Sys. (#1)	5 Ø ,58	AD-26 → AD-27
User Label Sector	5Ø,59	AD-28
User Directory	50,60,61	AD-28-→AD-29
· · · · ·		

C. Detailed Description of System Base Page Communication Area. (Found in Appendix A of Operators' Manual).

Description starts on next page. Slides AP-1

(General Core Layout) and AP-6 (Low Core of Memory Dump) will be used to relate values where possible.

DOS-M BASE PAGE LOCATIONS

LOCATION (S)	<u>}</u>	TYPE		CONTENTS
	Kiran M	Commence of the second		
3			Start	address for System
	•	4 - 4	Start	-up (branched to indirect
			by Di	sc Resident Bootstrap
			follo	wing loading of Core
			Resid	ent System).
4-37			JSB N	, T where N is a Base Page
			Locat	ion containing the Central
			Inter	rupt Controller (\$CIC)
			addre	ss.
40		DEC	-64	(1777ØØ)
41		DEC	-10	(177766)
42		DEC	· - 9	(177767)
43		DEC	-8	(17777Ø)
44		DEC	- 7	(177771)
45		DEC	- 6	(177772)
46		DEC .	- 5	(177773)
47		DEC	- 4	(177774)
5Ø		DEC	-3	(177775)
51		DEC	-2	(177776)
52		DEC	-1	(177777)
53		DEC	Ø	(Ø)
54		DEC	I	(1)
55		DEC	2	(2)
56		DEC	3	(3)
57		DEC	4	(4)
6Ø		DEC	5	(5)
61	• • • • • • • • • • • • • • • • • • • •	DEC	6	(6)
62		DEC	. 7	(7)
63	•	DEC	8	(10)

LOCATION	TYPE	CON	ITENTS
64	DEC	9	(11)
65	DEC	IØ	(12)
66	DEC	17	(21)
67	DEC	64	(100)
7Ø	OCT	17	(17)
71	OCT	37	(37)
72	OCT	77	(77)
73	OCT	177	(177)
74	OCT	377	(377)
75	OCT	1774ØØ	(1774ØØ)
76	OCT	3777	(3777)
77	OCT	1777ØØ	(N777ØØ)

LOCATION	LABEL	CONTENTS
100	UMLWA	Last word address of user available
		memory. Will always be one less than
4		contents of location 123.
1Ø1	JBINS	Chart TDACK/CECTOD of ich himany and
· 1 V 1	JBIN2	Start TRACK/SECTOR of job binary area.
•		=Ø if job binary area not assigned.
		=-l if this area overflows during
		compilation or assembly.
		= TRACK/SECTOR at end-of-disc for
		area assigned.
102	JBINC	Current TRACK/SECTOR of job binary
	•	area. Only set by compilers or
		assembler using this area.
103	TBG	Time Base Generator 1/0 Channel
	100	address. Will be Ø if TBG not
		on system.
	•	
104	CLOCK	Minutes part of System Time Clock.
1Ø5	01.0014.1	
כשו	CLOCK+1	Tenths of seconds part of System
		Time Clock.
106	CLEX	Minutes and of acception Time Object
סשו	CLEX	Minutes part of execution Time Clock.
		Bit 15 is set "ON" to turn this
		clock off.
1Ø7	CLEX+I	Tenths of seconds part of Execution
		Time Clock.
1 I Ø	CXMX	Maximum allowable execution time.
		Set by :RUN Directive time parameter
,		or to 5 if not given.

LOCATION	LABEL	CONTENTS
111	BATCH	Logical Unit # of Batch Input
		Device. Set by :BATCH Directive.
112	SYSTY	Logical Unit # of System Teletype.
113	DUMPS	Abort/Post Mortem dump flags.
		Bit 15 Abort dump flag.
		Bit Ø Post mortem dump flag.
		Bit will be on if condition set.
		These bits will be set by :ADUMP
		and :PDUMP Directives and cleared
		by either their execution, :OFF
		Directive, or new :JOB Directive.
•		
114	SYSDR	System Directory start TRACK/SECTOR.
	•	Set to where system is declared
		as starting during generation.
115	SYSBF	System Buffer TRACK/SECTOR. Since
		always on track boundary, sector
		part will always be \emptyset .
		part will always be p.
116	SECTR	Number of logical sectors per disc
		track.
117	EQTAB	Start Address of Equipment Table.
120	EQT#	Number of entries in entire Equipment
		Table. Each entry is 17 words.
		, , , , , , , , , , , , , , , , , , , ,
121	LUTAB	Start address of Logical Unit Table.
122	LUT#	Number of entries in Logical Unit Table.
123	JBUF	Start address of Job Input Buffer.
124	JFILS	Start TRACK/SECTOR address of source
		file. Set by execution of :JFILE
•	and the second of the second o	

LOCATION	LABEL	CONTENTS
125	JFILC	Current TRACK/SECTOR address of source file. Updated as Compiler or Assembler accesses the source file.
126-140	RONBF+I RONBF+I RONBF+I	Multi-purpose II word buffer used by system when user program is executing. Some uses are: (I) Saving of two 5 word user File directory entries to increase system efficiency when user program is run-
		ning on only one subchannel. System looks here first for Directory entry before searching Disc Directory.
		(2) Contains actual parameter valves(PI,P2,) following :PROG, and:GO directives.
		(3) Information is passed to \$EX20 (Parity Error Processor) by these locations.
141-153	EXPG	Directory Entry for currently executing USER program. For MAIN programs having segments: The first 2 1/2 words will always be those of the MAIN program's Directory entry (File Name in ASCII)
		with the remaining 8 1/2 words equal to the segment currently executing Directory entry information.
154	DISCO	Bits - 5 (Disc Data Channel select code). Bits Ø- Ø (Last Track on System).
155	SYSSC	System Disc Subchannel number. Will always be equal to S.C. bootstrapped down from.
	<u> </u>	PAGE 19]

LOCATION	LABEL	CONTENTS
156	SCCNT	Number of Subchannels on System -1.
157	UDNTS	Next TRACK/SECTOR address on Current
		User Disc,
16 ø	SYNTS	Nex TRACK/SECTOR address on System
		Disc. Will always equal the start of Work Area.
161	CUDSC	Current User Disc subchannel number.
162	CRFLG	Current Disc request flag.(Ø for System Disc; ≠Ø for Current User
		Disc). DVR31 always clears on
		completion of Disc request and
		examines on entry to see what disc to access.
163	CUDLA	Current User Disc TRACK/SECTOR
		address last accessed. Only used by DVR31.
164	SDLA	System Disc TRACK/SECTOR address
		last accessed. Only used by DVR31.
165	CUMID	Computer identification code. (#Ø if computer is 2114B thus only having one
		DMA channel).
166-170	DBUFR	System Disc Request Parameter Buffer. DBUFR = TRACK/SECTOR
		DBUFR+I = BUFFER ADDRESS
		DBUFR+2 = NUMBER OF WORDS
	e e e e e e e e e e e e e e e e e e e	(Set by System prior to Disc 1/0 for DVR31 to use).

	•	
LOCATION	LABEL	EDA3EV32
171-173	UBUFR	Current User Disc Request Paramenter
	e e e e e e e e e e e e e e e e e e e	Buffer.
		UBUFR = TRACK/SECTOR
		UBUFR+I = BUFFER ADDRESS
		UBUFR+2 = NUMBER OF WORDS
		(set by System prior to Disc 1/0
		for DVR31 to use).
* * * * * * * * * * * * * * * * * * *		
174	TSONE	Last referenced TRACK/SECTOR address +1.
		Set by DVR31. Could be used by User
		program accessing the WORK AREA to
		see what next available TRACK/SECTOR
		address is.
·		
175	GUDSC	Default User Disc Subchannel number.
		Always follows System Disc Subchannel
		number when Default User Disc is on
		same subchannel as System. (like when
		:DD executed), otherwise it stays where
		started: W.R.T. Bootstrapped System.
176	SYSCD	System Generation Code.
170	31300	System Generalion Gode.
177	JFLSC	Current Source File Subchannel number.
		Set by :JFILE Directive.
•	·	
200	DISCL	User label TRACK/SECTOR address.
		=Ø if Current User Disc is not on
		System Disc. If Current User Disc
		is on System Disc this Disc address =
		System Buffer Sector address. In-
		crementing this Disc address by one
		sector always gives the start of the
	90 (1996) 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980	User Directory TRACK/SECTOR address
	•	on the Current User Disc.
	i i	

LOCATION	LABEL	CONTENTS
201	INTAB	Start address of Interrupt Table.
202	INT#	Number of Interrupt Table entries.
203-223	EQTI EQT2 : : EQTI7	Addresses of Current Equipment Table Entry
224	RQCNT	Number of request parameters in current EXEC call. JSB EXEC and DEF RTN are not counted.
225	RORTN	Request return address in current EXEC call.
226-235	RQPI RQP2 RQP8	Addresses of current request parameters. ROPI is for the request code address etc.
236	NABRT	<pre>Illegal request code abort/no abort option parameter. ≠Ø if set. Set by N parameter in :RUN Directive.</pre>
237	XA	A Register contents at time of interrupt.
240	ХВ	B Register contents at time of interrupt.
241	XEO	E (Bit 15) and O (Bit Ø) Register contents at time of interrupt.
242	XSUSP	Address at time of interrupt (P-Register)
243	EXLOC	Start address of EXEC MODULE DOUBLET TABLE

[PAGE 22]

LOCATION	LABEL	CONTENTS
244	EX#	Number of entries in EXEC MODULE
		DOUBLET TABLE.
		•
245	EXMOD	EXEC MODULE currently in EXEC
		MODULE overlay area.
		= Ø if none resident.
		= +N if module #N resident and available
		= -N if module #N resident and BUSY.
		N II moddle #N lesident and bost.
246	EXMAN	EXEC MODULE overlay area low Main
240	CAMAN	Core Address.
		core Address.
247	ENAMAN - 4	EXEC MODULE overlay area high Main
241	EXMAN+1	Core Address.
		Core Address.
25Ø	EXBAS	EXEC MODULE Base Page linkage low
270	LADAS	address.
•		auui ess.
251	EXBAS+1	EVEC MODILLE Raco Pago Linkago high
231	LADASTI	EXEC MODULE Base Page linkage high
		address.
252	LODMN	CTART ARRESC OF 1/0 Privary
252	LODMN	START ADDRESS OF I/O Driver Main
		overlay area.
257	10000	01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
253	IODBS	Start address of I/O Driver Base Page
		overlay area.
254	UMFWA	Start address of User Main Area.
0.5.5		
255	UBFWA	Start address of User Base Page
		Linkage Area.
256	UBLWA	Last word address of User Base Page
		Linkage Area.
257	CHAN	Current DMA channel number assigned.
		= \emptyset if no DMA in use.
	Γ	PAGE 23]
	- ·	

е.

LOCATION	LABEL	CONTENTS
260	OPATN	Operator attention flag.
•		= Ø for not set.
		≠ Ø if desired.
		Set by System TTY Driver.
261	OPFLG	System TTY busy flag.
		= Ø if not busy.
		≠ Ø if busy.
262	SWAP	Job Processor resident flag.
		BIT 15 = 1 if System TTY is Batch Device.
		BIT $\emptyset = 1$ if Job Processor is in core.
263	JOBPM	Job Processor start TRACK/SECTOR address.
264	JOBPM+1	# of words in MAIN section of Job Proces-
		sor.
265	JOBPB	# of words in Base Page Linkage for
		Job Processor.
266	EJOBF	End-of-Job flag used only by Job
		Processor.
		= "blanks" if re-entry of :DATE allowed
		= \emptyset if in a job.
		= 1 if between jobs.
		= -1 if end-of-job.
267	RTRK	Real Time simulation track #.
27 Ø- 467	\$BUF	128 Word System 1/0 Buffer. Used only
	\$BUF+1	by Monitor and EXEC modules.
	\$BUF+127	
470	\$GOPT	Point of suspension return address.

Contains return address when \$1DCD

(location 471 below) = 60

in Allin	LAMEL	CONTENTS
471	\$ I DCD	Input request code check characters.
		= Ø for no special restrictions.
		≠ Ø for special restrictions placed
		on what can be entered via system
		TTY keyboard (like DA, GO, etc).
472-473	\$MDBF	2 Word EXEC Module Data Buffer.
474-502	TEMP	System Temporary.
	TEMP+1	
	•	
	TEMP+6	
5 Ø 3	TEMPØ	System Temporary.
5Ø4	TEMP!	System Temporary.
5 Ø 5	TEMP2	System Temporary.
5 Ø 6	TEMP3	System Temporary.
5 Ø 7	TEMP4	System Temporary.
5 I Ø	TEMP5	System Temporary.
511	MSECT	Negative # of logical SECTORS per TRACK.
•		
512	VADR	Address of last instruction that caused
		a memory protect violation.
513	IODMD	I/O Driver Overlay Area resident flag.
•		= Ø if no I/O Driver in this area.
		≠ Ø if an I/O Driver is in this area.
		The value (if not Ø) will be:
		+ (Address of resident Driver's first
		EQT entry) if area is available
		OR
		- (Address of resident Driver's first

TPAGE 257

EOT entry) if this area is not overlable

always be positive. 515 SXA Operator attention A Regist 516 SXB Operator attention B Regist 517 SXEO Operator attention E (Bit I (Bit Ø) Register save. 52Ø SXSUS Operator attention return a (P-Resister). 521 SEQTI Operator attention EQT Tables save. 522 DSCLB Disc TRACK/SECTOR Address on Resident Relocatable Library by Relocating Loader. 523 DSCL# Number of sectors in Disc Relocatable Library. 524 LSTCH Last Disc referenced flag. = Ø if current user program executed by :PROG or :RUN System Disc. # Ø if current user program executed by :PROG or :RUN Current User Disc. NOTE: \$EXIO (Program Load) uses the to set CRFLG flag (location).			
Operator attention A Regist SXB Operator attention B Regist SXEO Operator attention E (Bit i (Bit Ø) Register save. SXSUS Operator attention return a (P-Resister). SEQTI Operator attention EQT Table save. DISC TRACK/SECTOR Address or Resident Relocatable Library by Relocating Loader. DSCL# Number of sectors in Disc Relocatable Library. SYSTEM Disc referenced flag. ### If current user program executed by :PROG or :RUN System Disc. ### If current user program executed by :PROG or :RUN Current User Disc. NOTE: \$EXIO (Program Load) uses to set CRFLG flag (location)	21 4	MOUDE	Current request code value. Will
516 SXB Operator attention B Regist 517 SXEO Operator attention E (Bit i (Bit i)) Register save. 520 SXSUS Operator attention return a (P-Resister). 521 SEQTI Operator attention EQT Tables save. 522 DSCLB Disc TRACK/SECTOR Address of Resident Relocatable Library by Relocating Loader. 523 DSCL# Number of sectors in Disc Relocatable Library. 524 LSTCH Last Disc referenced flag. ### If current user program executed by :PROG or :RUN System Disc. ### If current user program executed by :PROG or :RUN Current User Disc. **NOTE:** \$EXIO (Program Load) uses to set CRFLG flag (location)			always be positive.
517 SXEO Operator attention E (Bit is (Bit Ø) Register save. 52Ø SXSUS Operator attention return a (P-Resister). 521 SEQTI Operator attention EQT Tables save. 522 DSCLB Disc TRACK/SECTOR Address of Resident Relocatable Library by Relocating Loader. 523 DSCL# Number of sectors in Disc Relocatable Library. 524 LSTCH Last Disc referenced flag. = Ø if current user program executed by :PROG or :RUN System Disc. # Ø if current user program executed by :PROG or :RUN Current User Disc. NOTE: \$EXIO (Program Load) uses to set CRFLG flag (location)	515	SXA	Operator attention A Register save.
(Bit Ø) Register save. 520 SXSUS Operator attention return a (P-Resister). 521 SEQTI Operator attention EQT Tables save. 522 DSCLB Disc TRACK/SECTOR Address on Resident Relocatable Library by Relocating Loader. 523 DSCL# Number of sectors in Disc Relocatable Library. 524 LSTCH Last Disc referenced flag. = Ø if current user program executed by :PROG or :RUN System Disc. # Ø if current user program executed by :PROG or :RUN Current User Disc. NOTE: \$EXIO (Program Load) uses to set CRFLG flag (location)	516	SXB	Operator attention B Register save.
(P-Resister). 521 SEQTI Operator attention EQT Table save. 522 DSCLB Disc TRACK/SECTOR Address on Resident Relocatable Library by Relocating Loader. 523 DSCL# Number of sectors in Disc Relocatable Library. 524 LSTCH Last Disc referenced flag. = Ø if current user program executed by :PROG or :RUN System Disc. # Ø if current user program executed by :PROG or :RUN Current User Disc. NOTE: \$EXIO (Program Load) uses the to set CRFLG flag (location).	517	SXEO	Operator attention E (Bit 15) and 0 (Bit Ø) Register save.
Disc TRACK/SECTOR Address of Resident Relocatable Library by Relocating Loader. DSCL# Number of sectors in Disc Relocatable Library. Last Disc referenced flag. if current user program executed by :PROG or :RUN System Disc. if current user program executed by :PROG or :RUN Current User Disc. NOTE: \$EXIO (Program Load) uses to set CRFLG flag (location)	52Ø	sxsus	Operator attention return address save (P-Resister).
Resident Relocatable Librar by Relocating Loader. 523 DSCL# Number of sectors in Disc R Relocatable Library. 524 LSTCH Last Disc referenced flag. = Ø if current user program executed by :PROG or :RUN System Disc. # Ø if current user program executed by :PROG or :RUN Current User Disc. NOTE: \$EXIO (Program Load) uses to set CRFLG flag (location)	521	SEQTI	Operator attention EQT Table address save.
Relocatable Library. 524 LSTCH Last Disc referenced flag. = Ø if current user program executed by :PROG or :RUN System Disc. # Ø if current user program executed by :PROG or :RUN Current User Disc. NOTE: \$EXIO (Program Load) uses to set CRFLG flag (location)	522	DSCLB	Disc TRACK/SECTOR Address of Disc Resident Relocatable Library. Used by Relocating Loader.
= Ø if current user program executed by :PROG or :RUN System Disc. ≠ Ø if current user program executed by :PROG or :RUN Current User Disc. NOTE: \$EXIO (Program Load) uses t to set CRFLG flag (location	523	DSCL#	Number of sectors in Disc Resident Relocatable Library.
NOTE: \$EXIO (Program Load) uses to set CRFLG flag (location	524	LSTCH	<pre>= Ø if current user program (†o be executed by :PROG or :RUN) is on System Disc. # Ø if current user program (†o be executed by :PROG or :RUN) is on</pre>
525 FIELD Hear file table validity fi		NOTE:	\$EXIO (Program Load) uses to see how to set CRFLG flag (location 162).
<pre>(= Ø if invalid; ≠ Ø if val \$EXII uses to see if OK to</pre>	525	FLFLG	User file table validity flag. (= Ø if invalid; ≠ Ø if valid). \$EXII uses to see if OK to use \$BUF area for user file directory entry storage.

LOCATION	LABEL	CONTENTS
526	XFLG	Transfer Address for Disc Not Ready
		condition.
		<pre>= Ø to process Not Ready condition normally.</pre>
		# Ø to transfer to this address if Not
		Ready condition present.
		A good use is to ignore "NOT READY"
		Drives when doing multiple Drive
		System Searches.
527	SSFLG	System Search Flag
		Values it can have are:
		a. ASCII "NO" if :SS Directive not
		allowed.
•		b. Ø for only current user Disc
		(:SS,99 condition).
		cX for full System Search (:SS)
		where X= # subchannels on system -1
		d. +X for Selected System Search
		Bits \emptyset -7 are used to represent
		Subchannels Ø-7 respectively. Bit
		ON=OK, Bit OFF=not OK.
57d 571	OLLABO	Const. on Trans.
53 Ø- 531	CHARC	System Temporary.

III. INTERNAL SISTEM OFFRATION

- A. TOMEC Command Sequences
 - I. Seek Record [SLIDE 69A]
 - 2. Read Data [SLIDE 69B]
 - 3. Write Data [SLIDE 69C]
 - 4. Check Data [SLIDE 69D]
 - Status Check [SLIDE 69E]
 - 6. Constants and Storage [SLIDE 69F] -- Second Projector
- B. Supplied DOS-M Bootstrap Listing Study ("A" Version)
 - I. Configuration Section (Start Address = 2) [SLIDES 7ØD 7ØF]
 - a. Data Channel in Switches 0-5
 - b. Configure DMA Control Word
 - c. Loop to Configure all D.C. and C.C. Instructions
 - d. Switch 15 Down -- HALT

 Switch 15 UP -- Punch Configured Bootstrap in absolute tape format.
 - 2. Execution Section (Start Address = 100B or 5) [SLIDES 70A-70C]
 - Loads Disc Resident Bootstrap form Track Ø Sectors
 1 & 2 on Subchannel specified to memory locations
 154ØØ 15777 octal.
 - b. Sets locations in DRB as follows:
 - c. Uses address in ASPBF of DRB (which was set earlier during generation) to see what page LWAM declared in adjusts for one page lower for relocation of Disc Resident Bootstrap.
 - d. Adjusts DEF's in DRB for correct page (ASPBF, DEFDY, and DVADR).
 - e. Relocates entire DRB to new page -- only does page relative move.

- f. Transfers control to relocated DRB to have it bring in Core Resident DOS-M System from Disc.
- C. Disc Resident Bootstrap (DRB) Listing Study [SLIDES 71A 71F]
 - 1. Configures all Disc 1/O instructions (within locations 15643-15724 octal) according to Data Channel already setup in location 15773 by supplied bootstrap.
 - 2. Calls PLOAD routine four times to load in the four sections of Core Resident System defined in ASPBF through ASPBF+11 (3 words per load). SLOAD reads a sector at a time. Note how DMA Control Word does not have to be output again here because it was already outputted by Supplied Bootstrap in loading DRB.
 - 3. Examine Equipment Table of CRS just loaded to accomplish the following:
 - a. For DVRØ5 configure all 1/0 instructions in this System TTY driver.
 - channels. Configure all I/O instructions in this driver. Configure DMA control word in this driver. Set + and # sectors per track locations in this driver.
 - 4. Set RUN TIME DISC channel in DISCO (base page location 154B: bits 15-11).
 - 5. Set RUN TIME DISC Interrupt Table entries in correct interrupt table entry and also put correct entry in interrupt table where Generator Disc Channel entries were.
 - 6. Set new I/O channels in Equipment Table for devices swapped with RUN TIME DISC.
 - 7. Set RUN TIME SYSTEM Subchannel in Base Page location 155 octal from information passed by Supplied Bootstrap.
 - 8. Set User Label TRACK/SECTOR Disc Address (Base Page location 200 octal) according to Base Page locations 155 and 175 octal.
 - 9. Set Next TRACK/SECTOR Address on Current User Disc (Base Page Location 157 octal).
 - 10. Set Current User Disc Subchannel # (location 161) equal to Default User Disc Subchannel # (location 175).
 - II. Branch to location 3 indirect to start DOS-M System.

- D. DOS-M System Halts [SLIDE 72]
 These Halts are only during System Operation following successful bootstrap.
- E. DOS-M I/O Request Processing Example
 - I. Materials used
 - a. Tape Recording of step by step execution
 - b. Large chart of DOS-M I/O Request Processing

Charles & d

- c. Foldout flowcharts on DOS-M (next section)
- d. Slides
 - (I) Equipment Table Format: # 10B
 - (2) Device Reference Table Format: # 100
 - (3) Interrupt Table Format: # IØD

2. Procedure

- a. Using the above tape recording and materials, trace an example I/O Request Operation (b below) through all major steps that occur from the initial EXEC call until the I/O operation is complete.
- b. The example I/O operation will be:

JSB EXEC (Call to Executive Supervisor)

DEF RTN (Define Return Address)

DEF RCODE (Define Request Code Address)

DEF CONWD (Define Control Word Address)

DEF BUFA (Define Buffer Start Address)

DEF BUFL (Define Buffer Length Address)

RTN (Return Point)

RCODE DEC | (Read Operation R.C.)

CONWD OCT 5 (Logical Unit 5)

BUFA BSS 36 (36 word or 72 char. Buffer)

BUFL DEC -72 (72 character length)

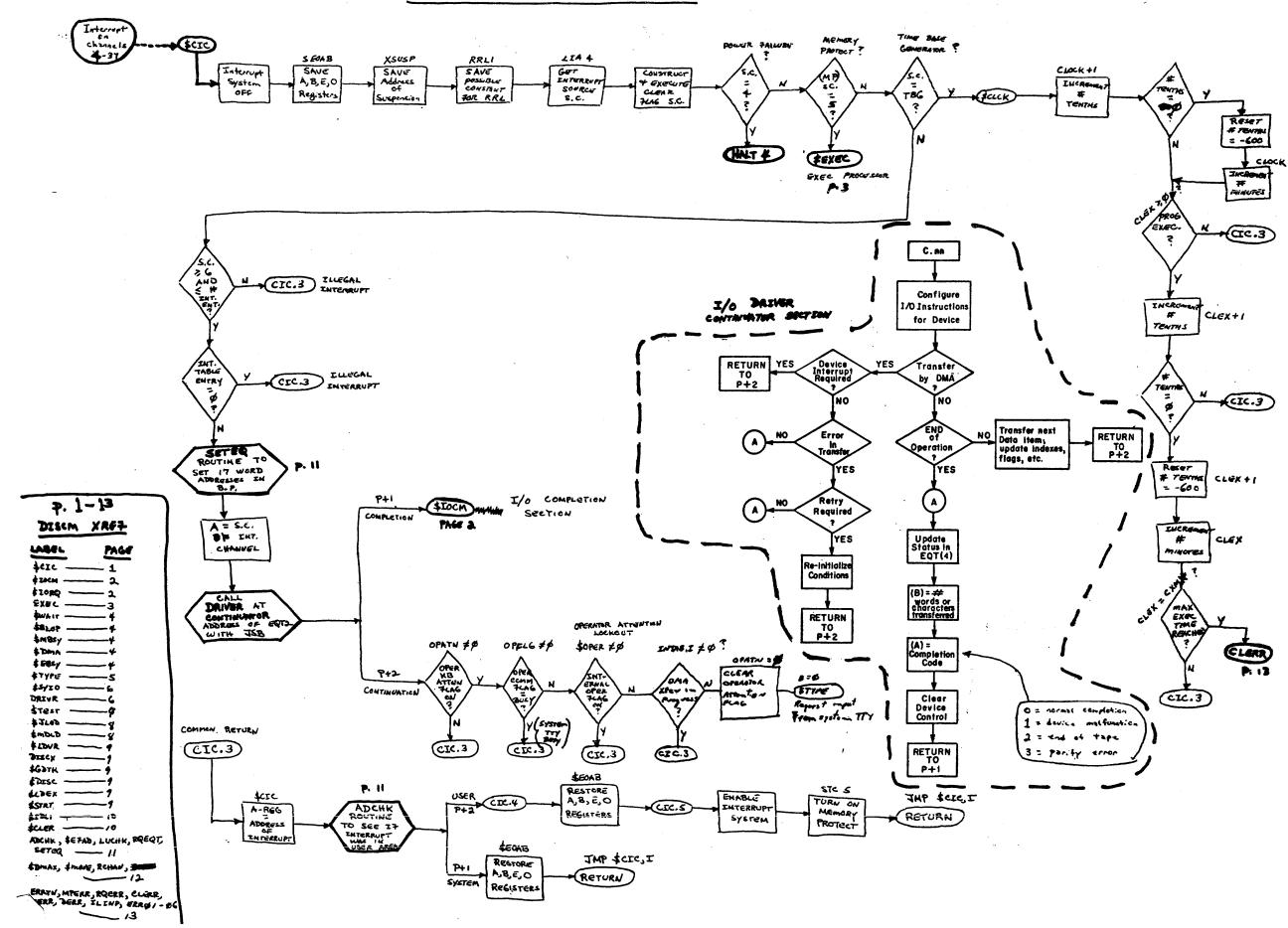
DOS-M FLOWCHARTS TABLE OF CONTENTS

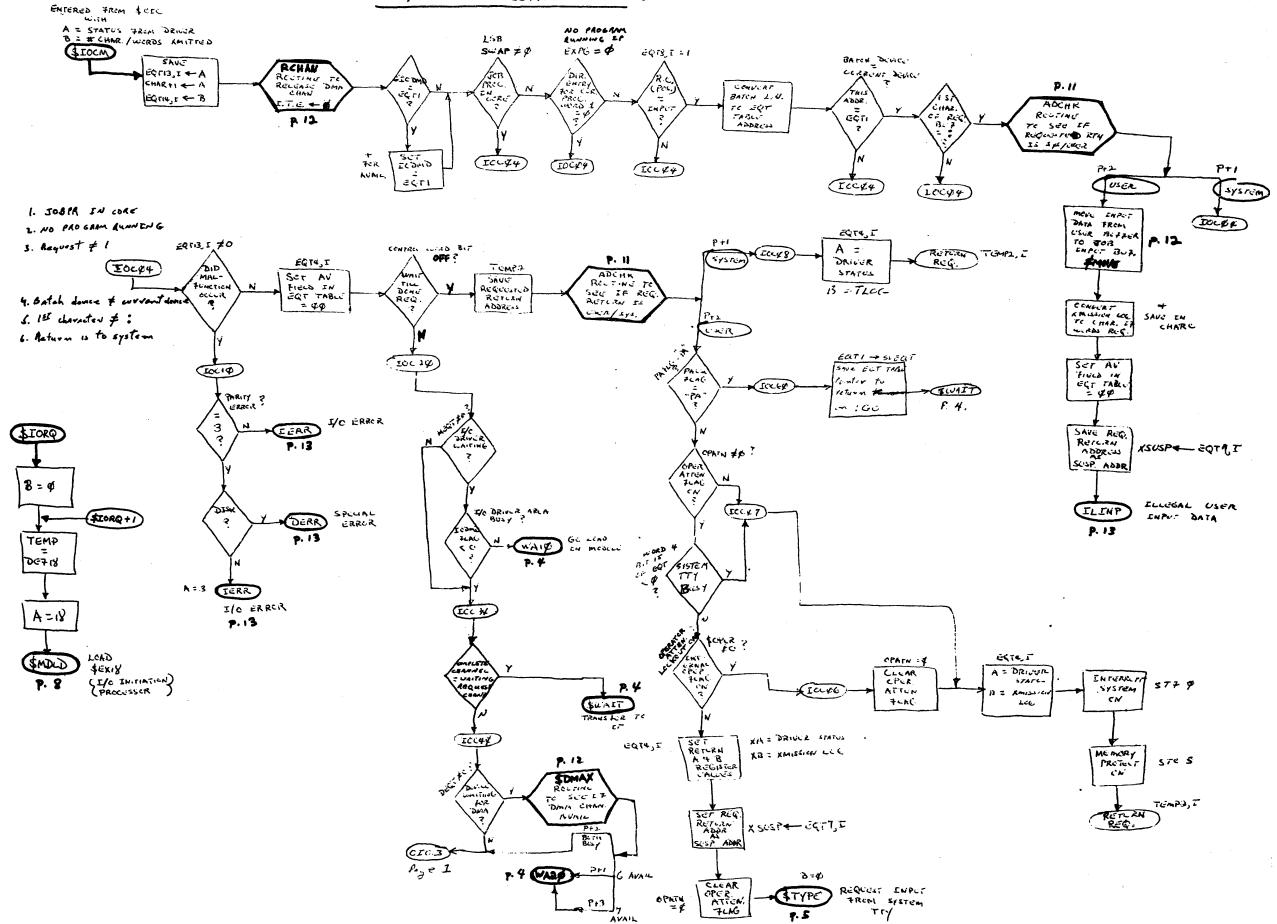
DISC MONITOR

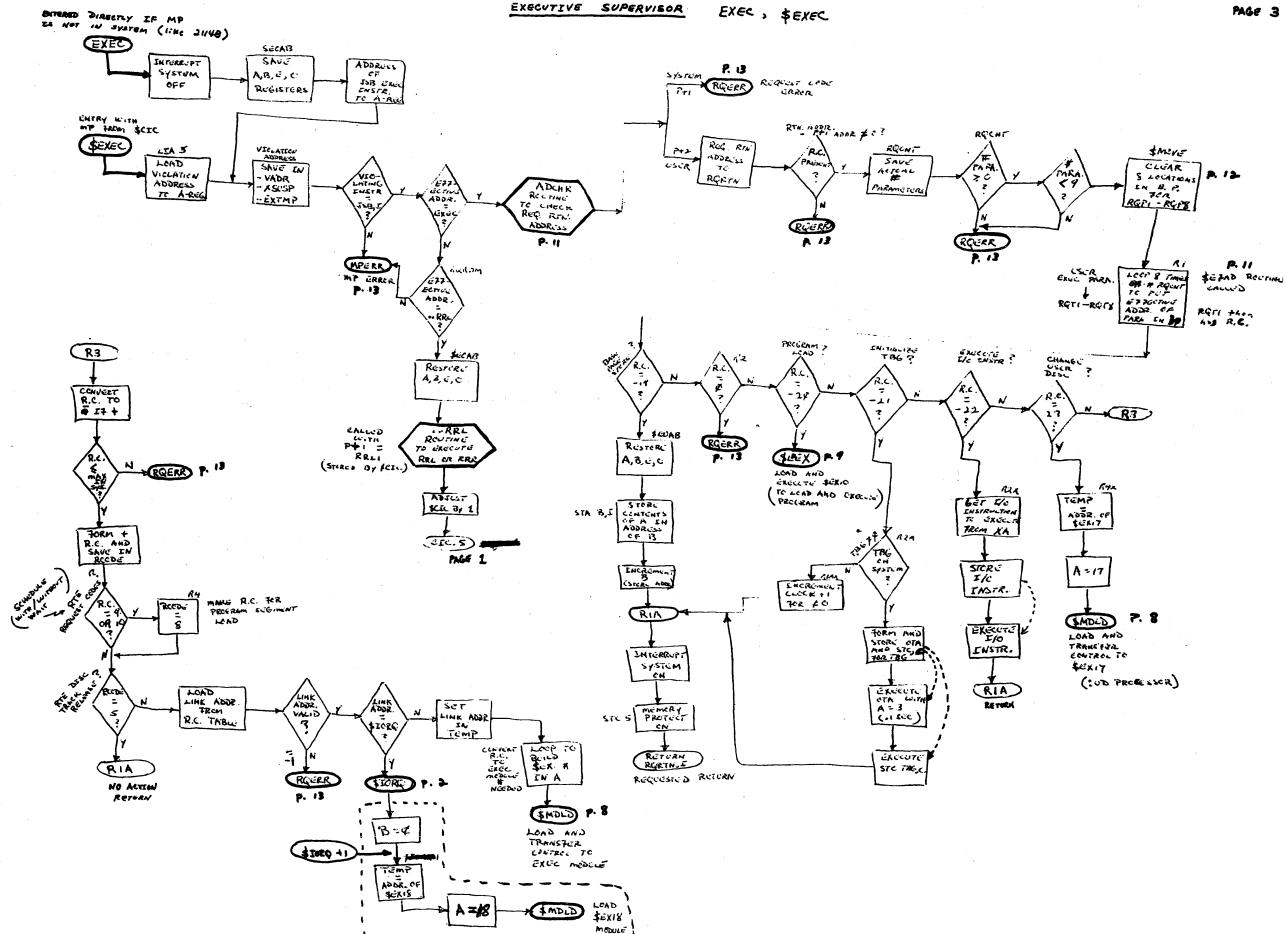
Name/Entry Label(s)	Page(s)
V\$CIC	İ
\$IOCM,\$IORQ	2
EXEC	3
\$WAIT,\$BLOP,\$MBSY,\$DMA,\$EBSY	4
\$TYPE	5
\$SYIO,DRIVR,NRPAR	6
\$TEST	. 7
\$JLOD,\$MDLD,10.4Ø	8
<pre>\$LDVR,DISCX,\$GDTK,\$DISC,\$LDEX,\$STRT</pre>	9
\$IDLI,\$CLER	1 Ø
ADCHK, LUCHK, \$EFAD, RQEQT, SETEQ	11
\$DMAX,RCHAN,\$MOVE	12
ERRTN MPERR, RQERR, CLERR, IERR	13
DERR, ILINP, ERRØI, ERRØ2, ERRØ3	13
ERRØ4,ERRØ5,ERRØ6	13
EXECUTIVE MODULES	
\$EXØ1	14
\$EXØ2	15
\$EXØ3, \$ EXØ6	16
\$EXØ4	17
\$EXØ5	18
\$EXØ7,\$EXØ8	19
(Reserved for \$EXØ9)	2Ø
\$EXIØ	21
(Reserved for \$EXII)	22
\$EX!2	23
\$EXI3	24
\$EX14	25
\$EX15	26
\$EXI6	27

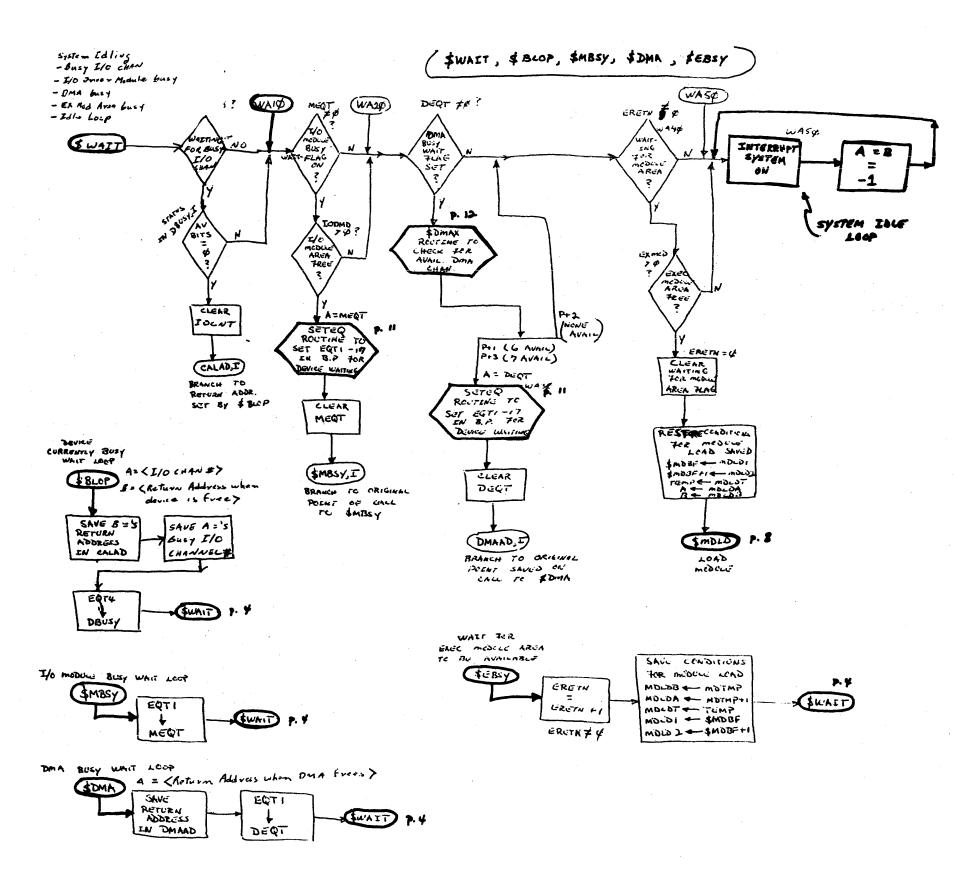
EXECUTIVE MODULES (continued)

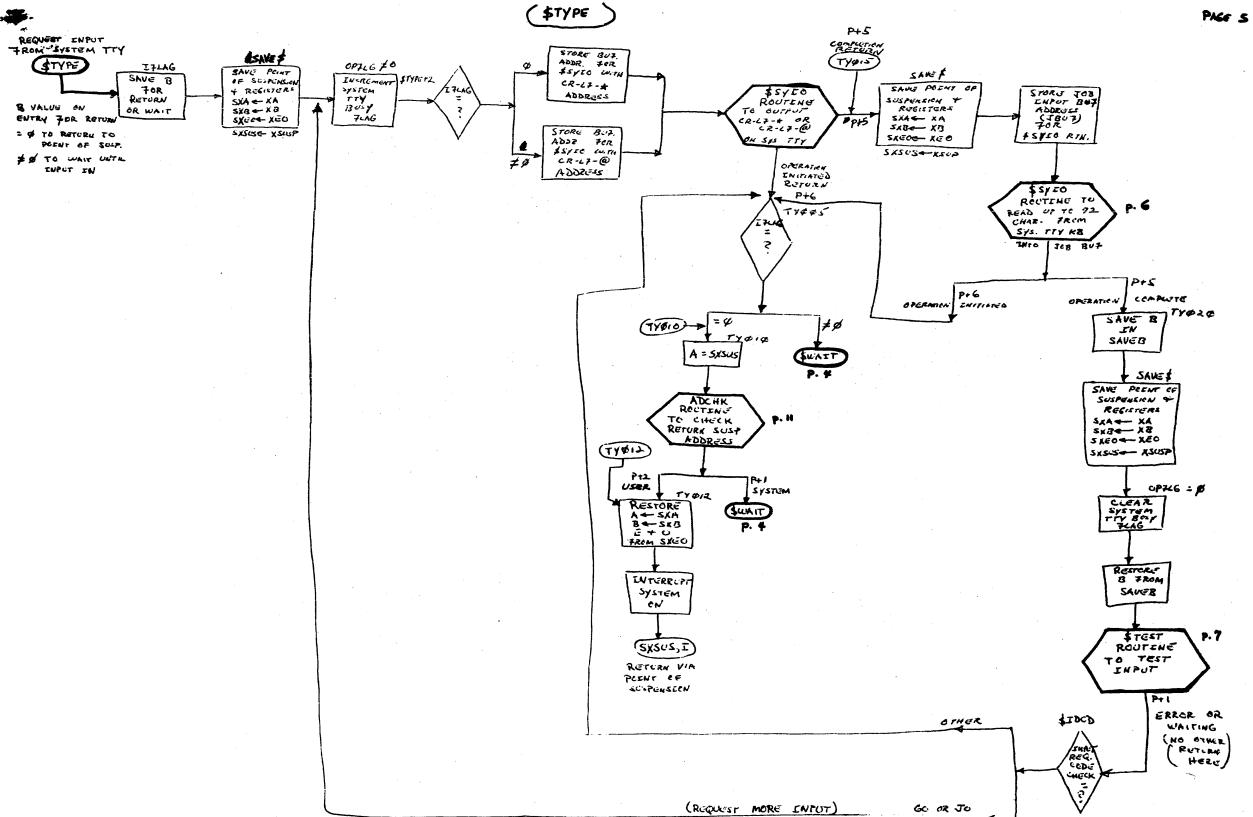
Name/Entry Label(s)	Page(S)
(Reserved for \$EX17)	28
\$EX18	29A,29B,29C
\$EXI9	3Ø
(Reserved for \$EX20)	31
SYSTEM SUBROUTINES	
ASCII	32
(Reserved for DUMRX)	33
(Reserved for \$LBL)	34
(Reserved for \$SRCH)	35
(Reserved for \$ADDR)	36
DRIVERS	
D V RØ1	37

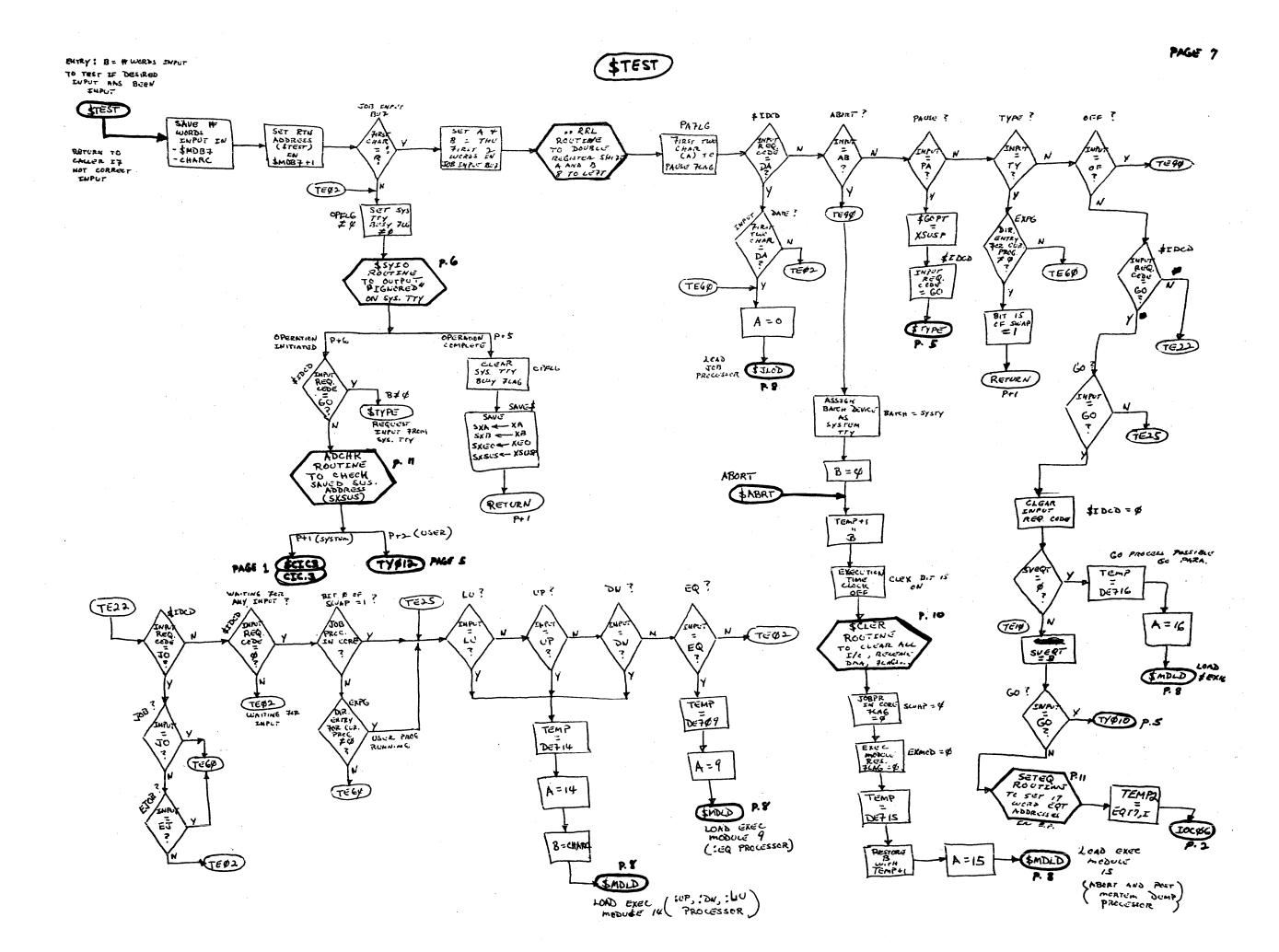


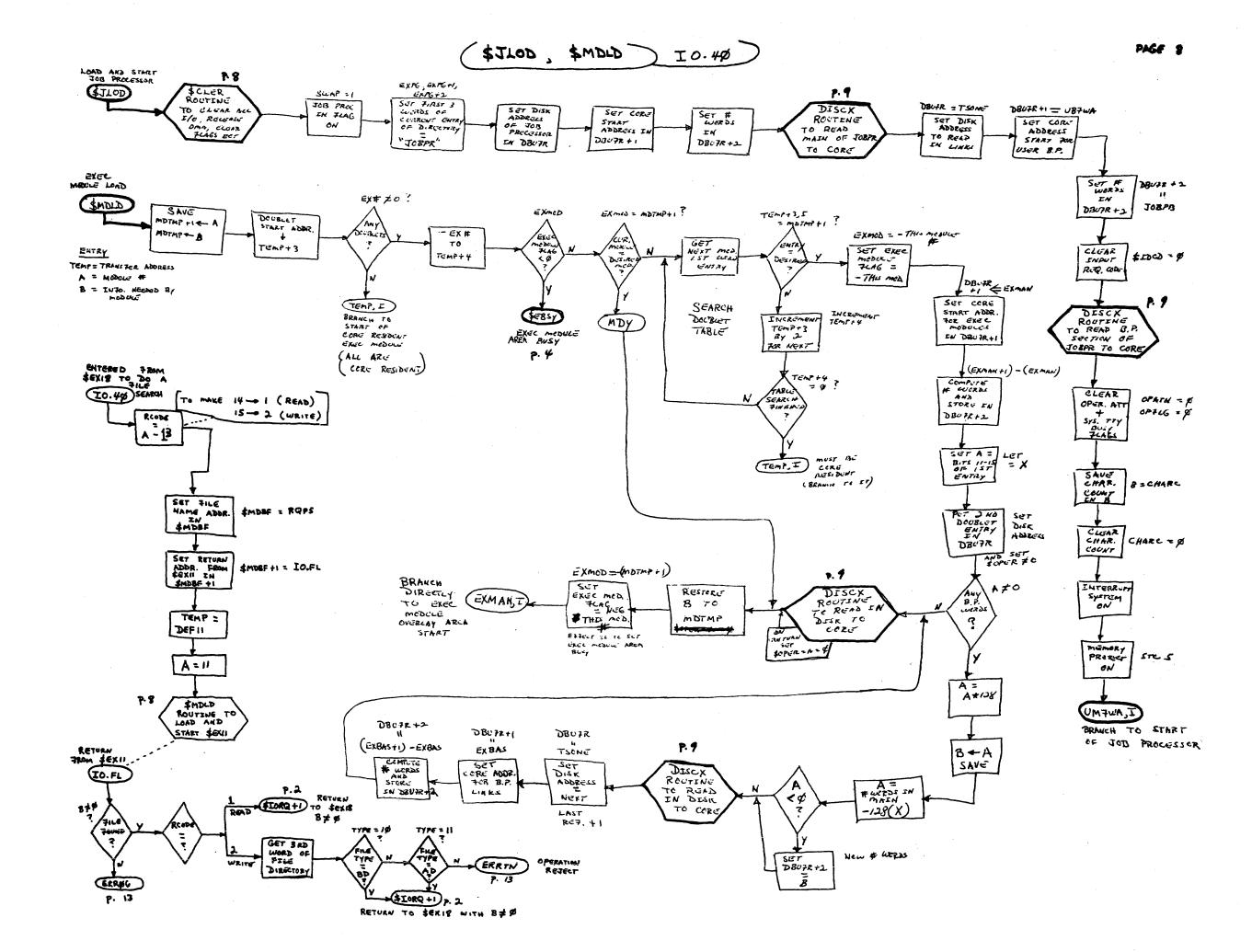




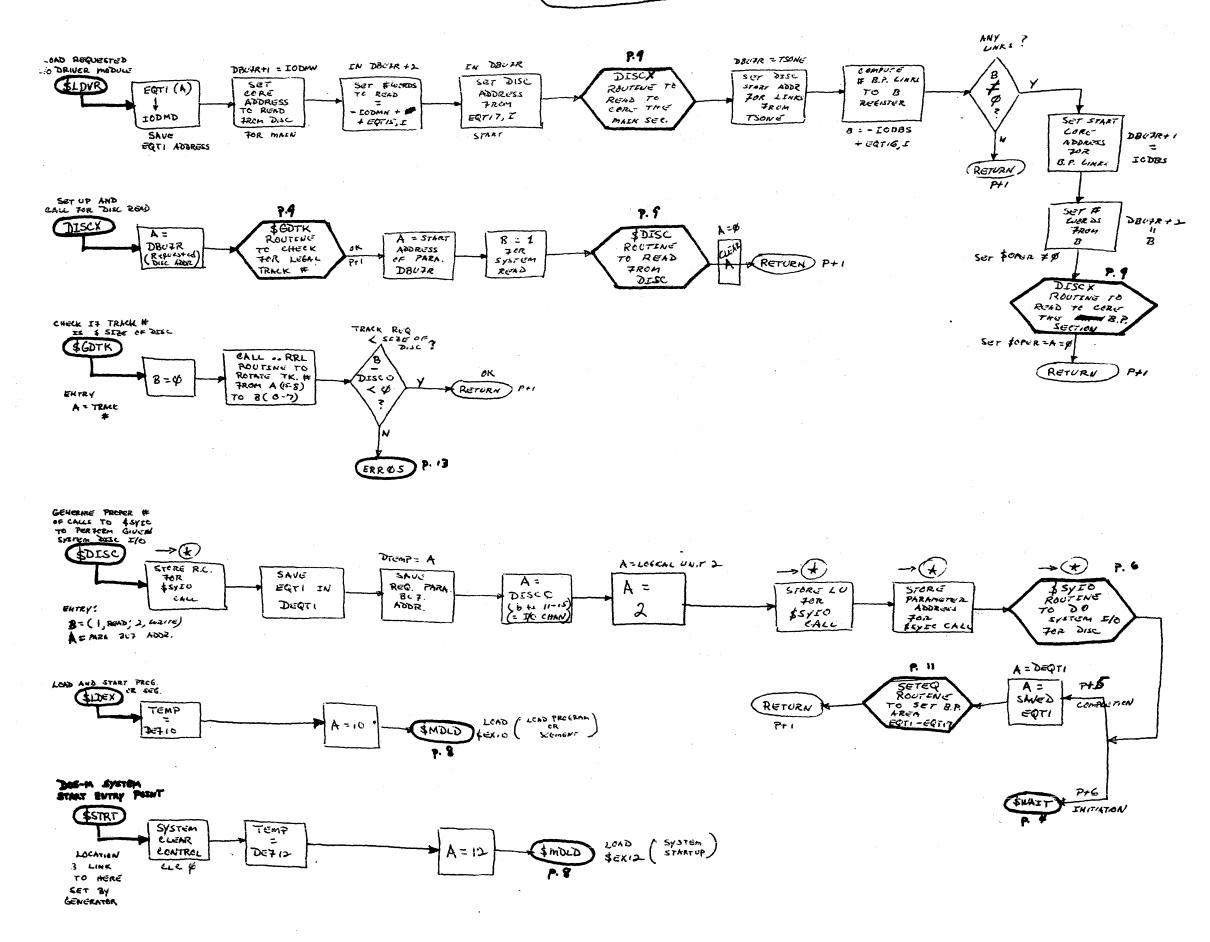


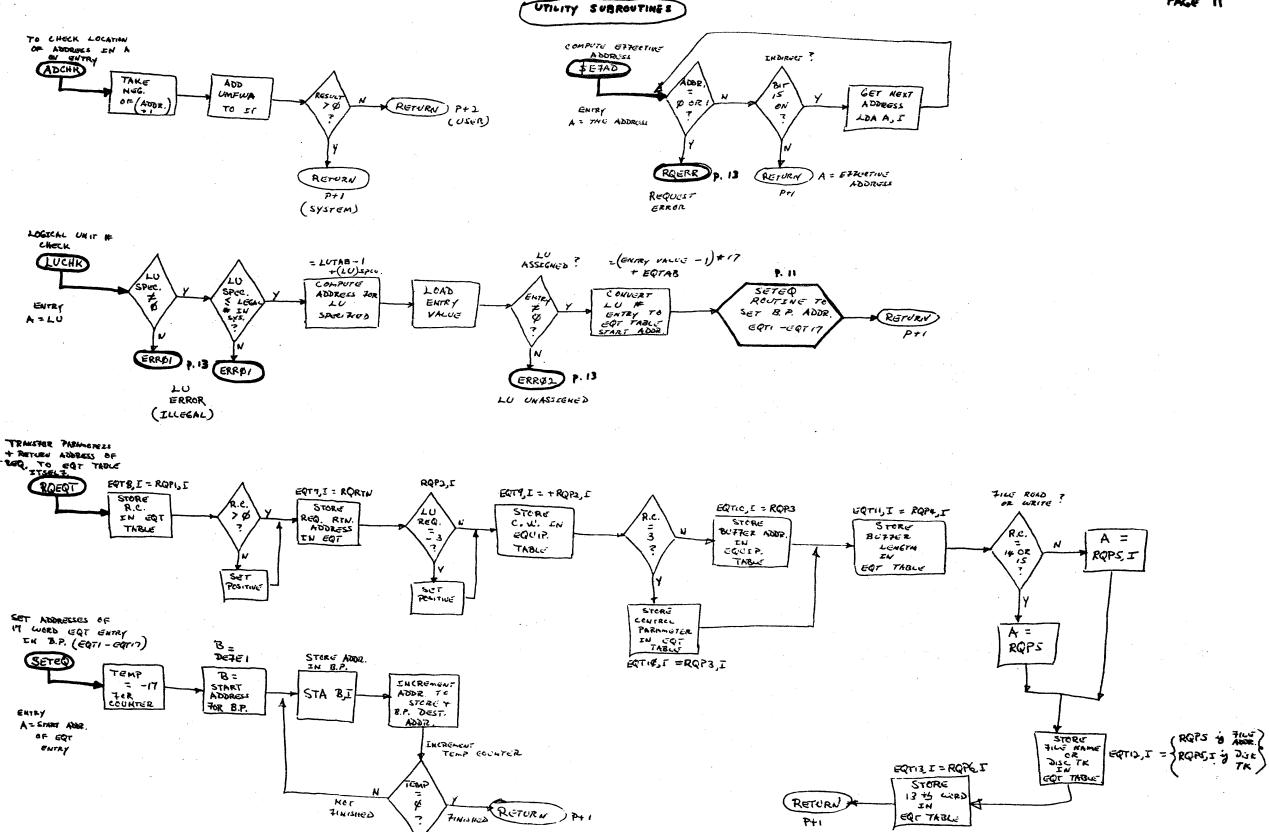


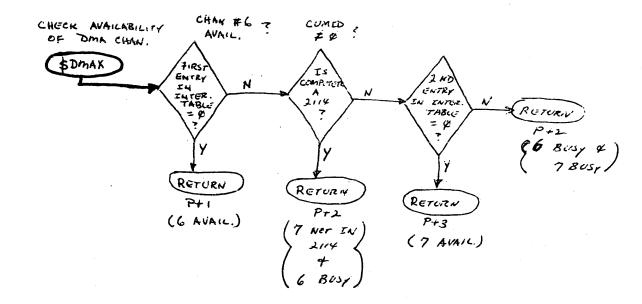
e de la composition


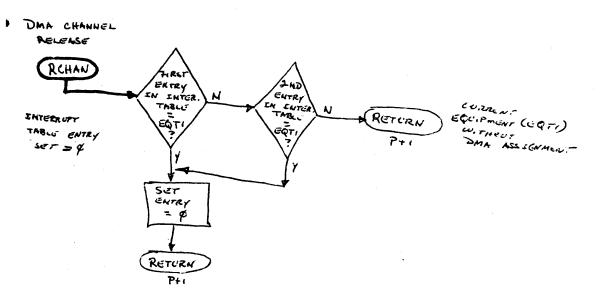


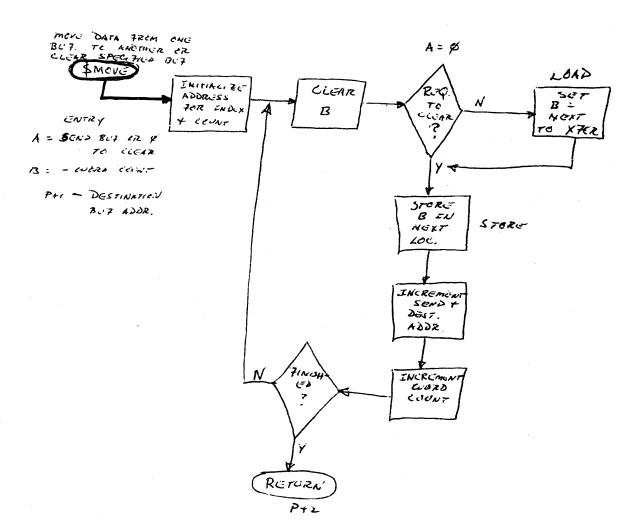
\$LDVR, DISCK, #GOTH, #DISC \$LDEX, \$STRT

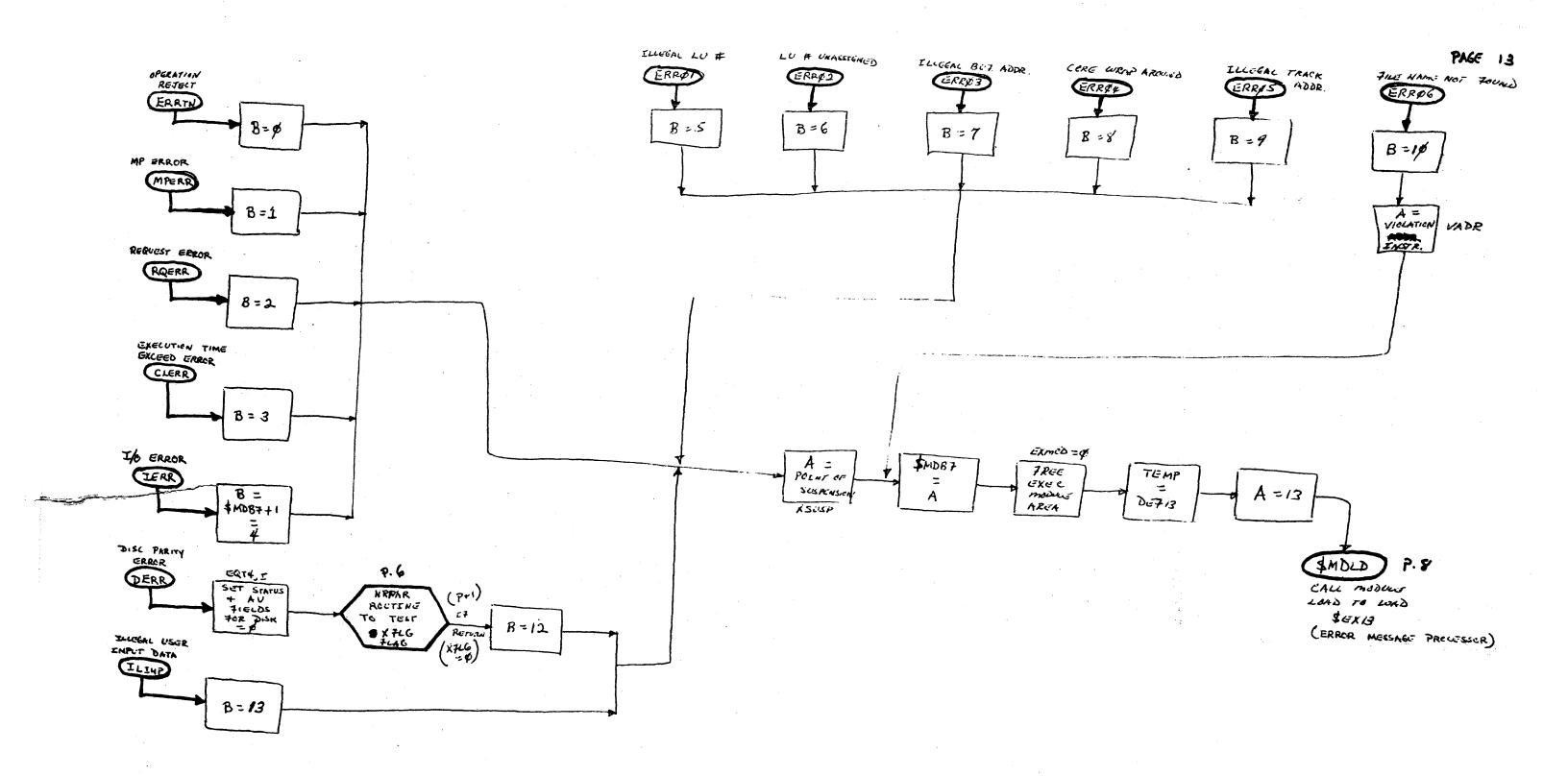




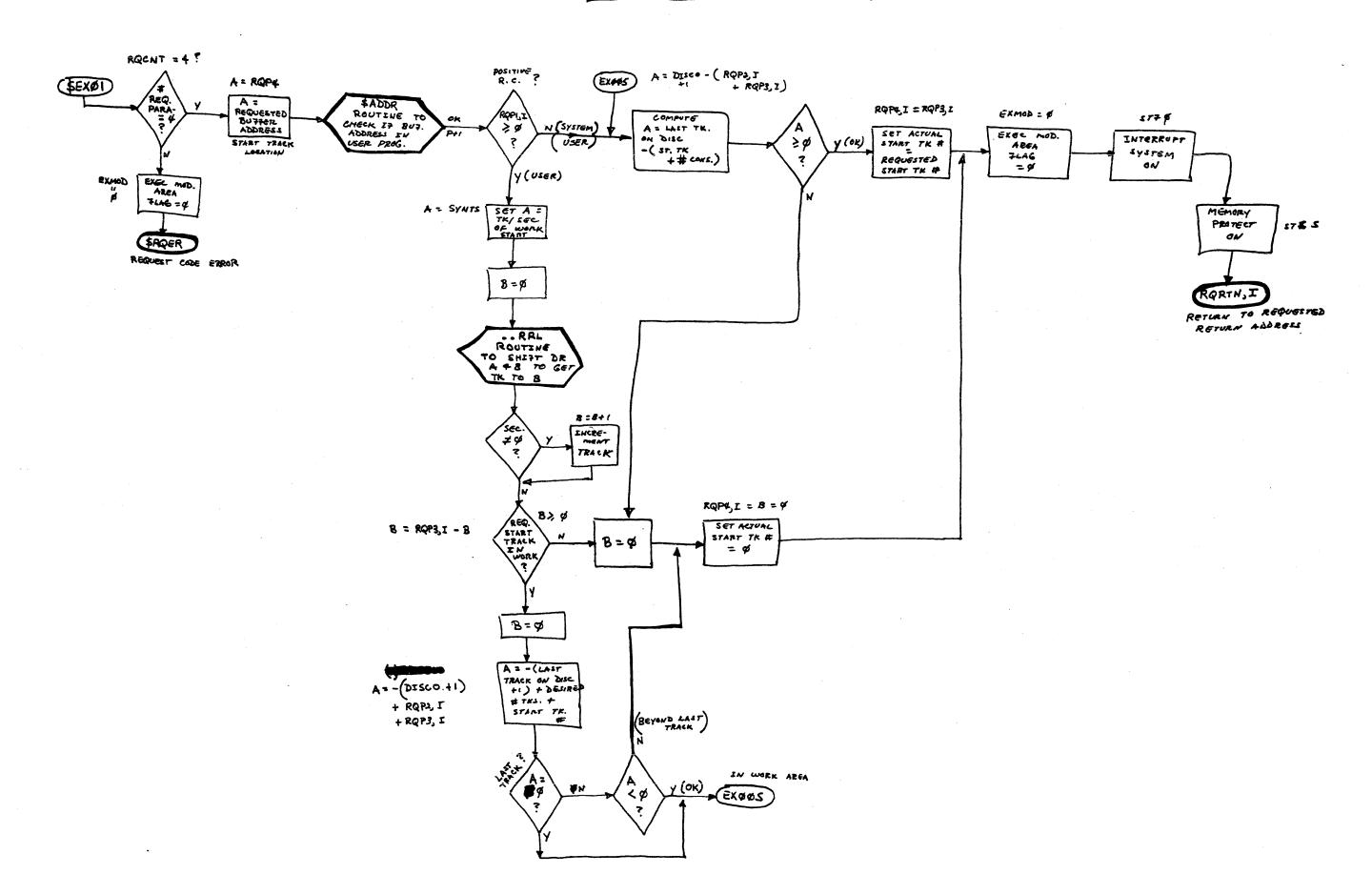




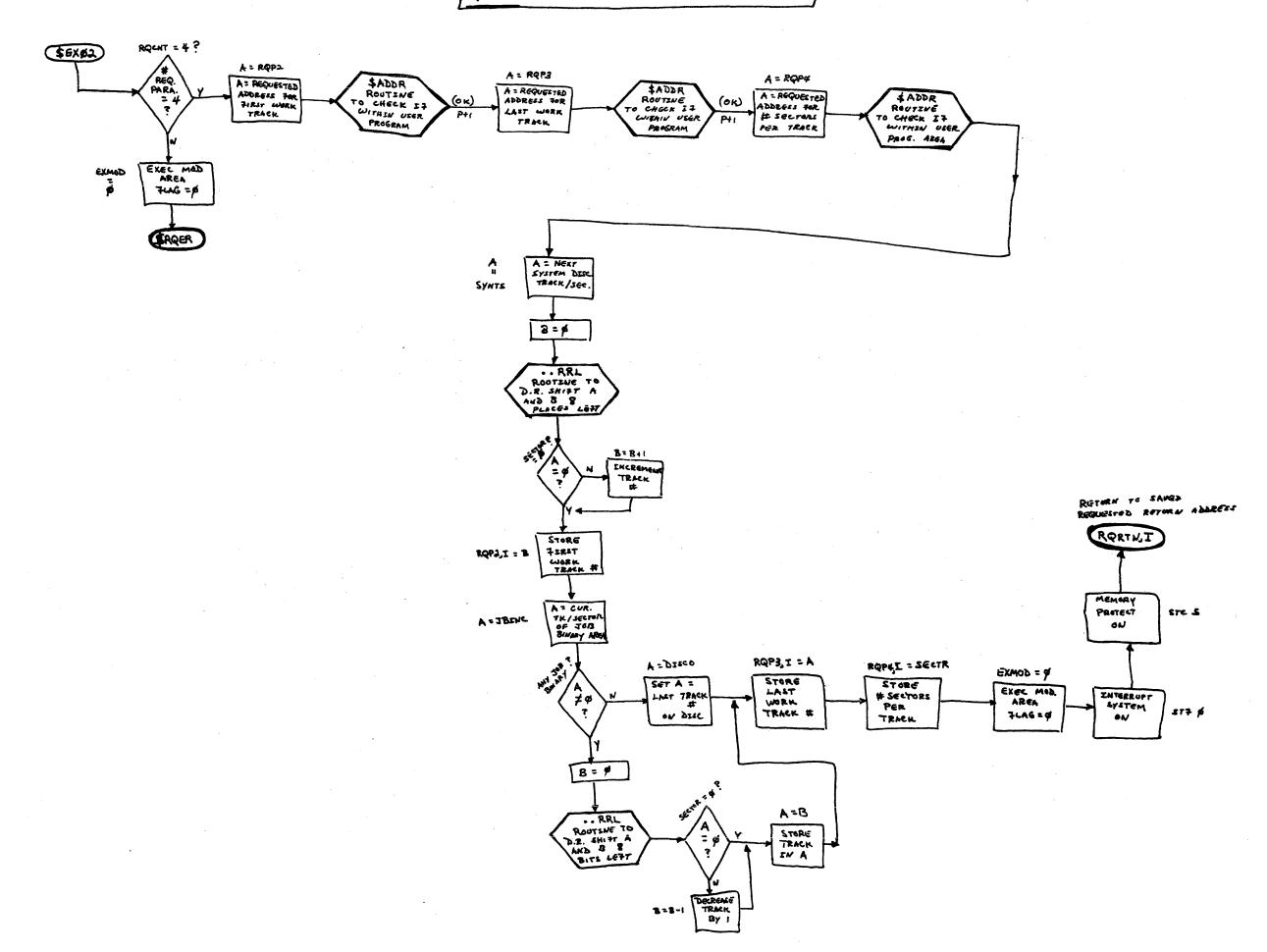


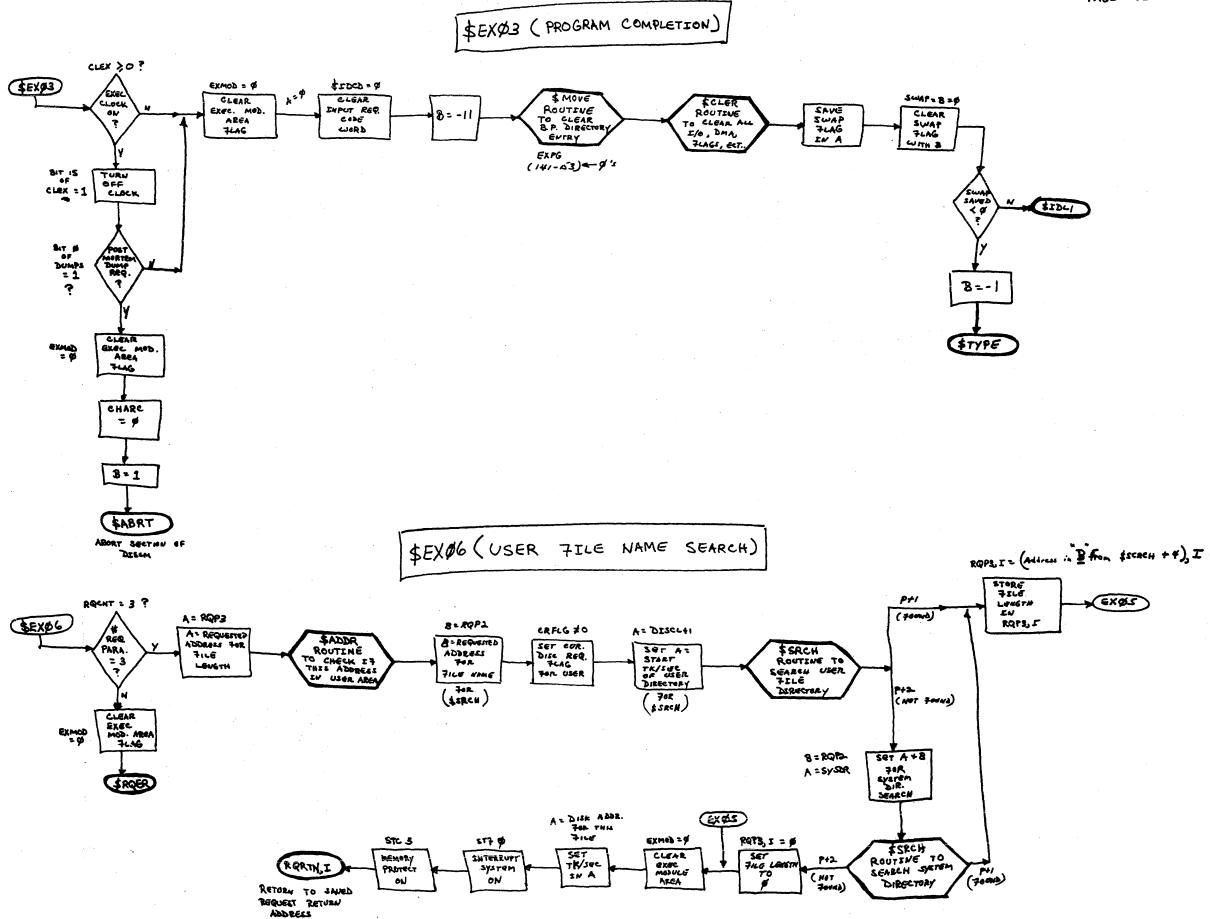


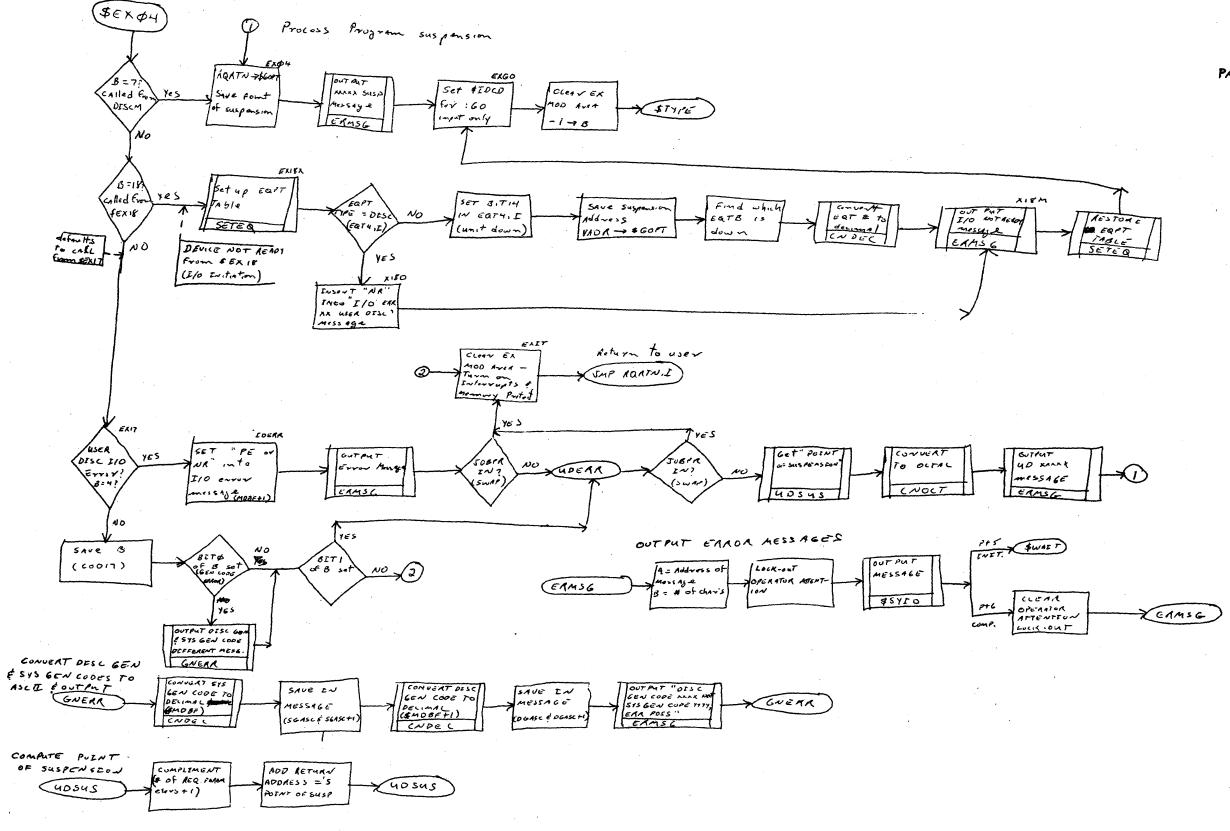
ERROR ENTRY POINTS

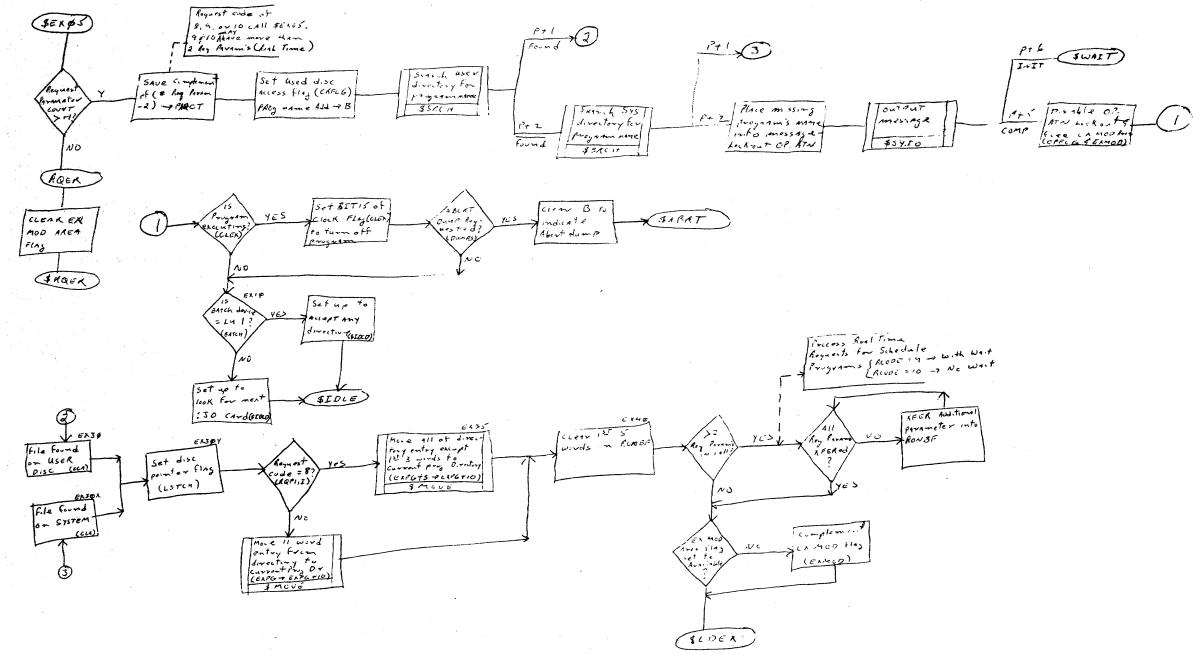


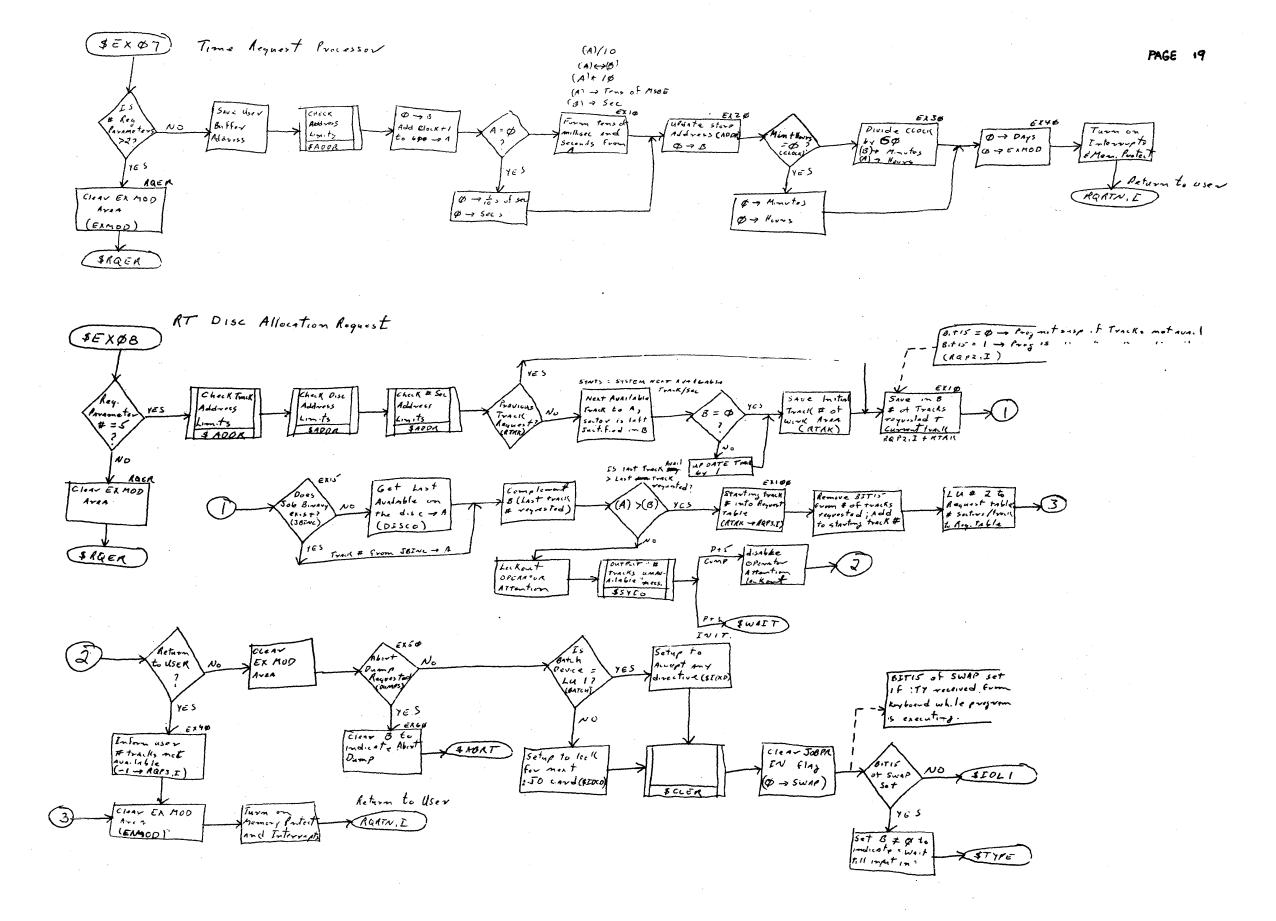
\$EXO2 (DISC WORK TRACK LIMITS)

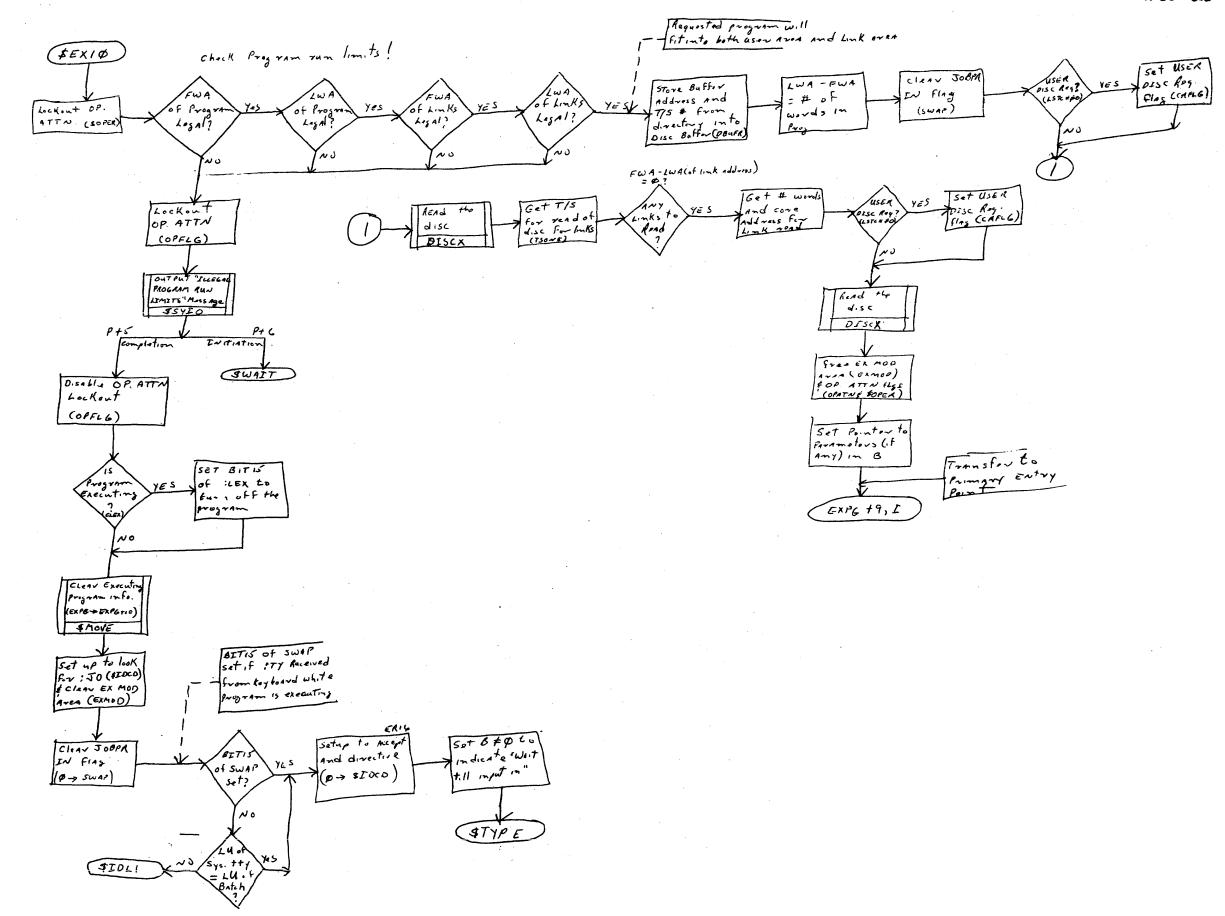


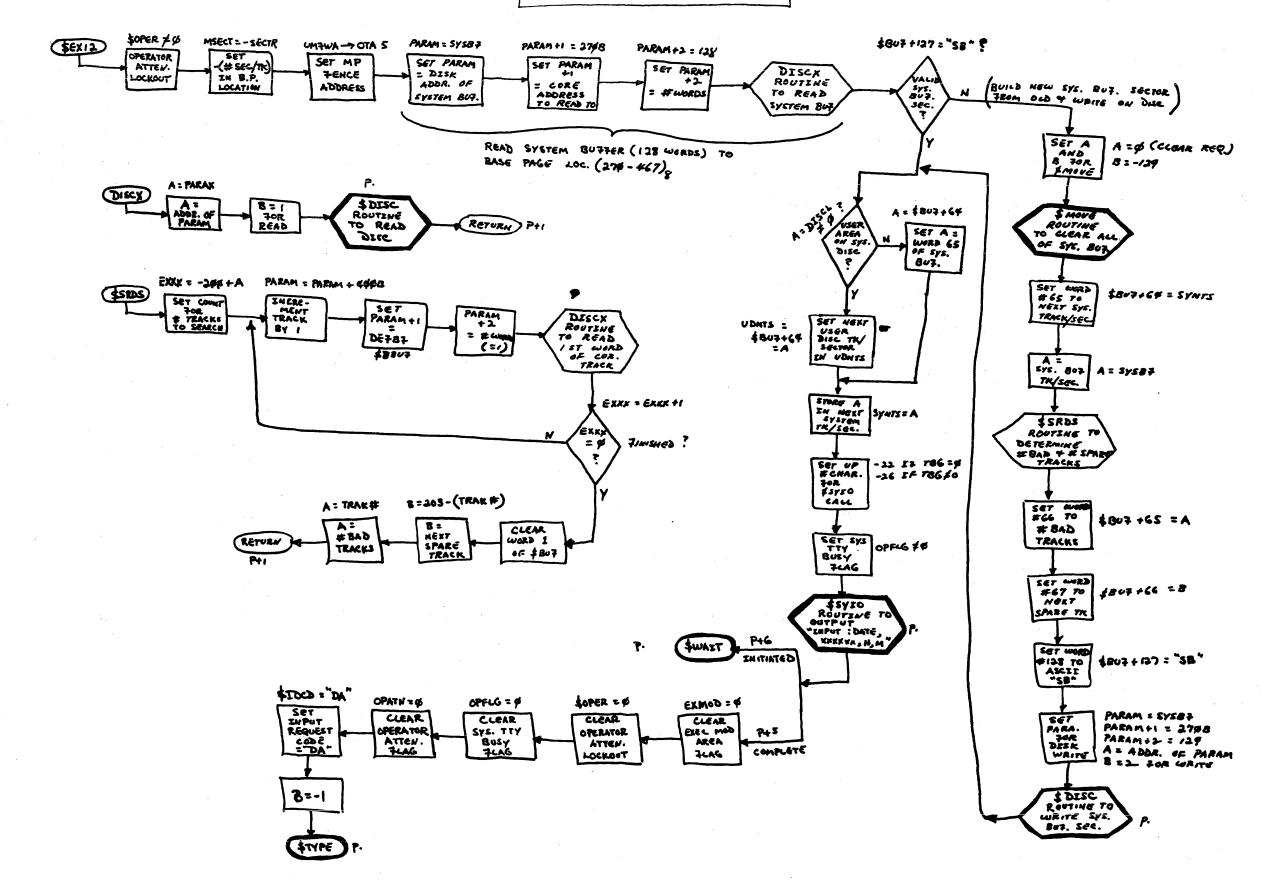


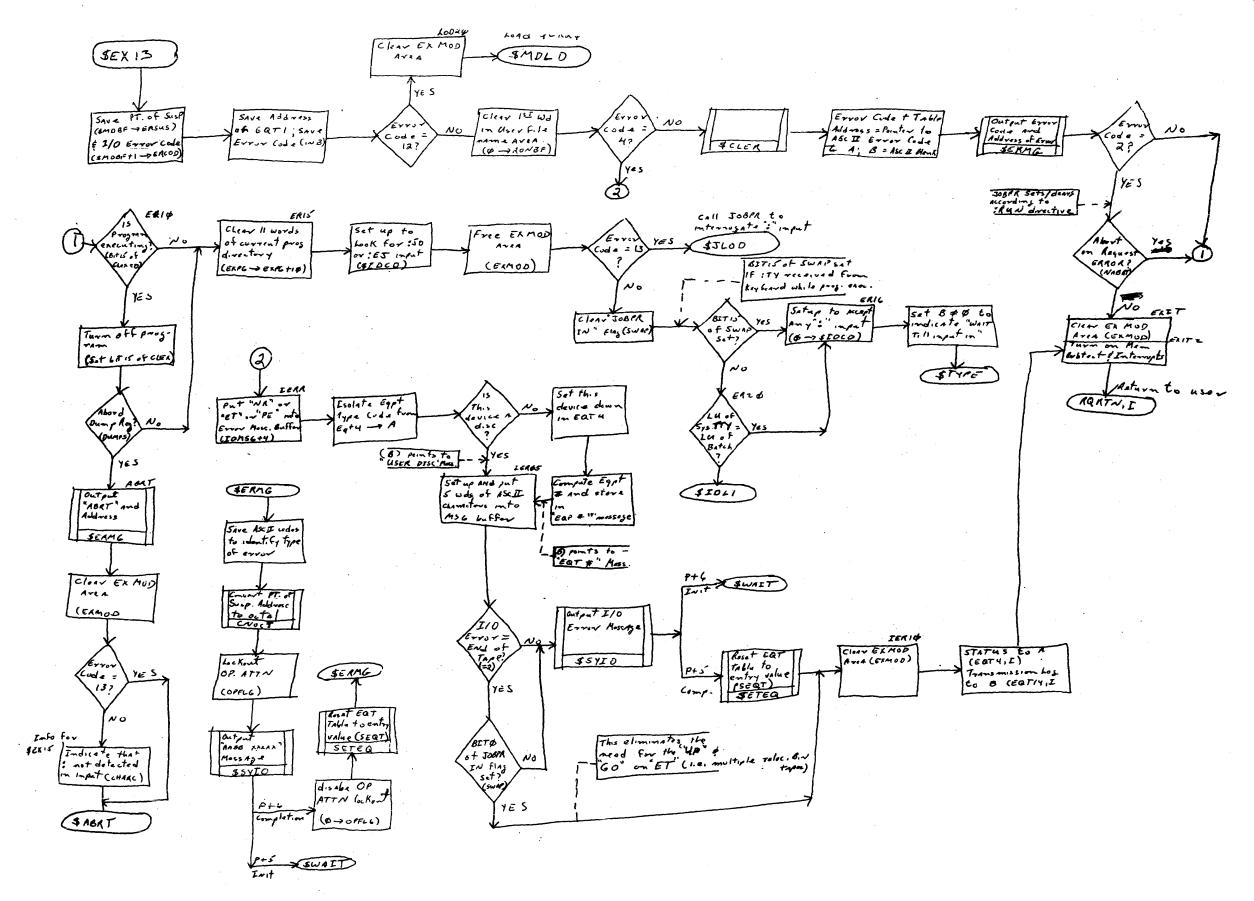


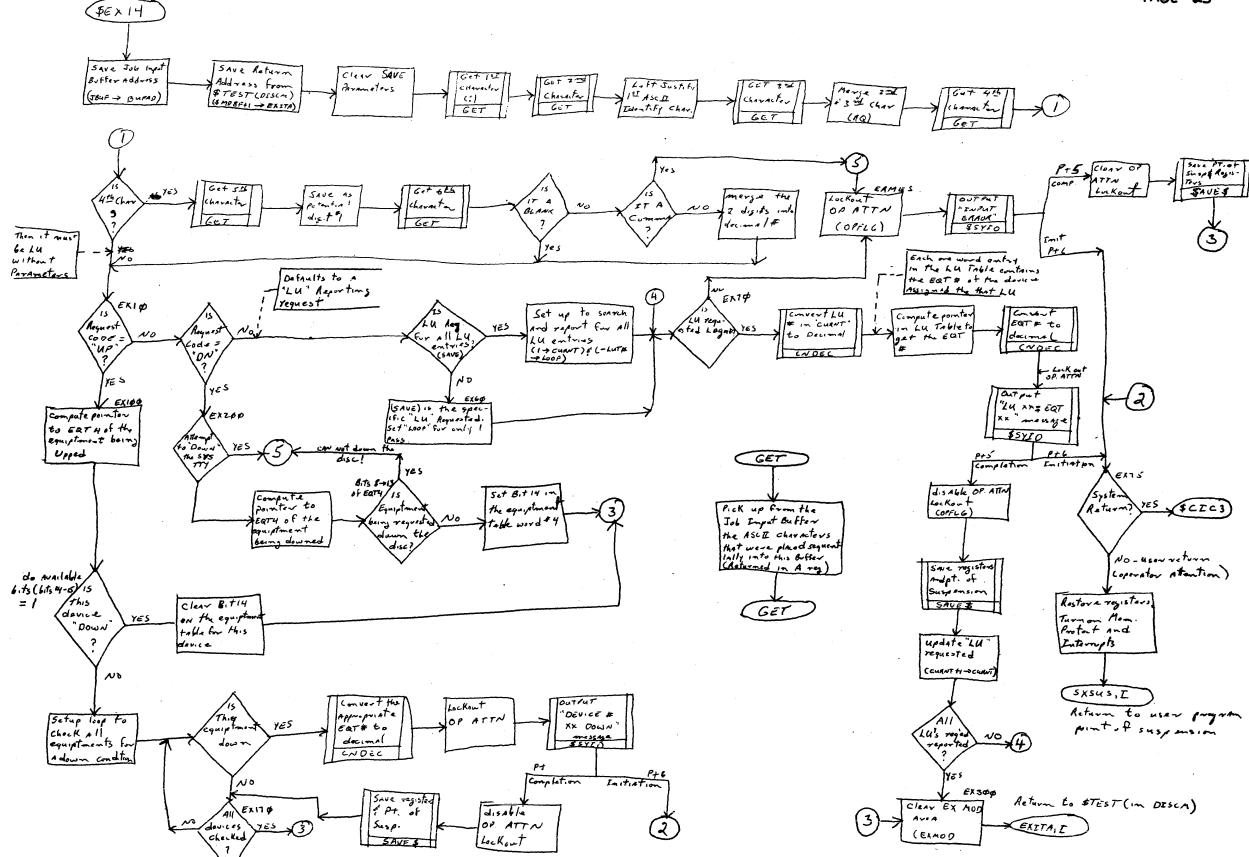


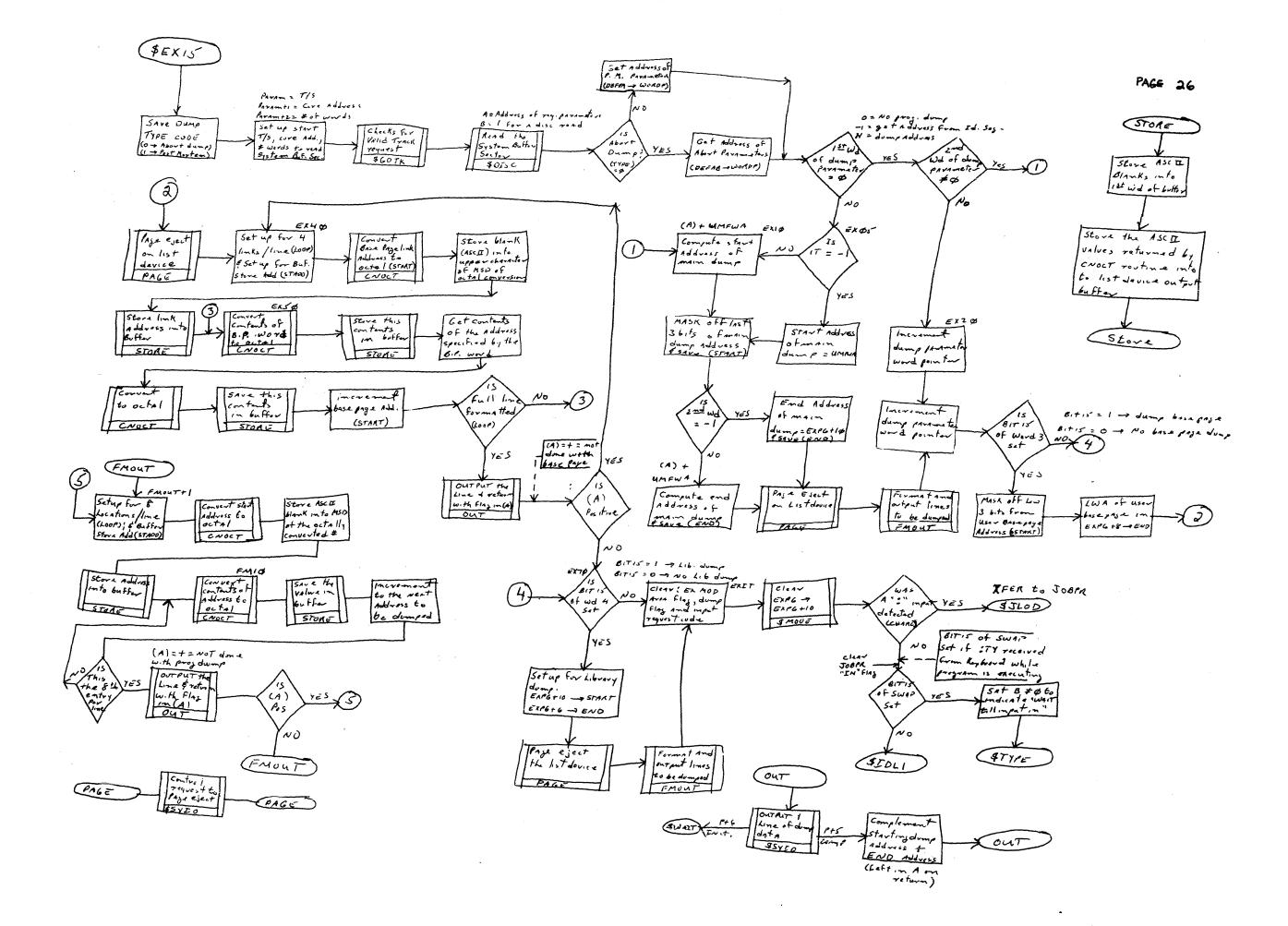


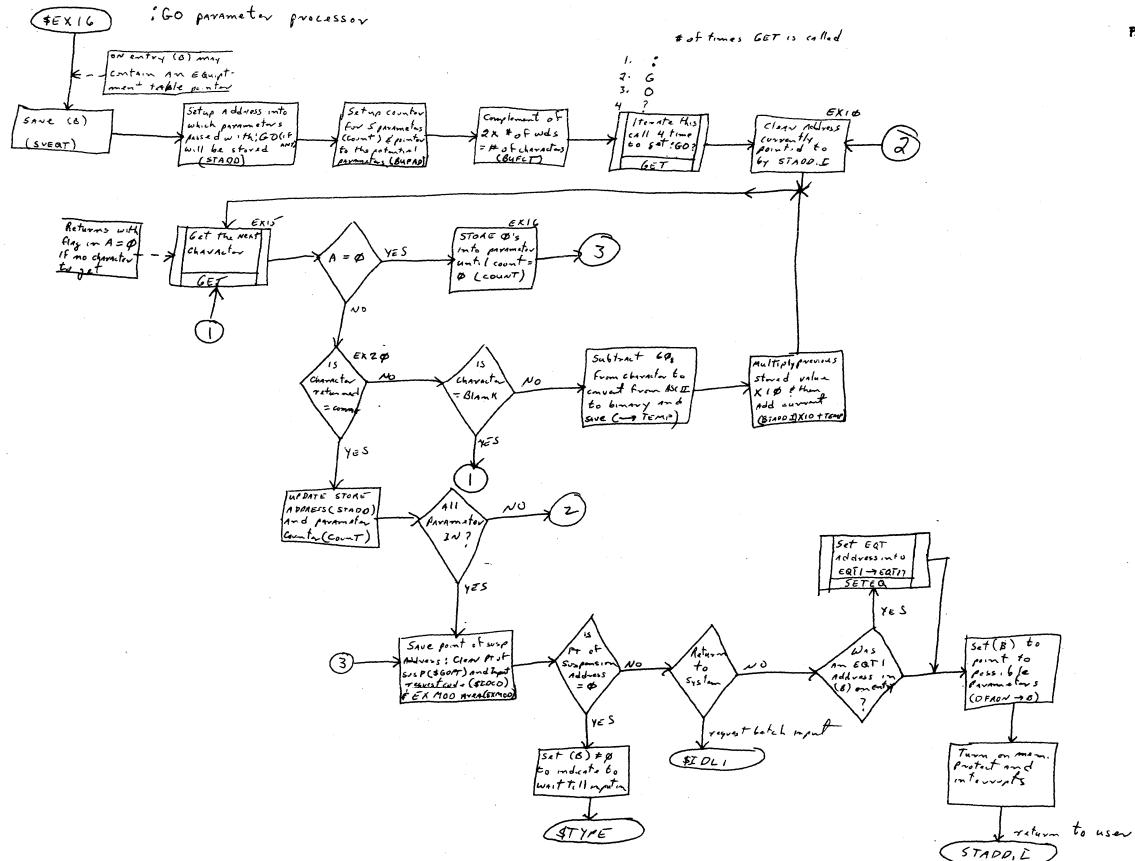


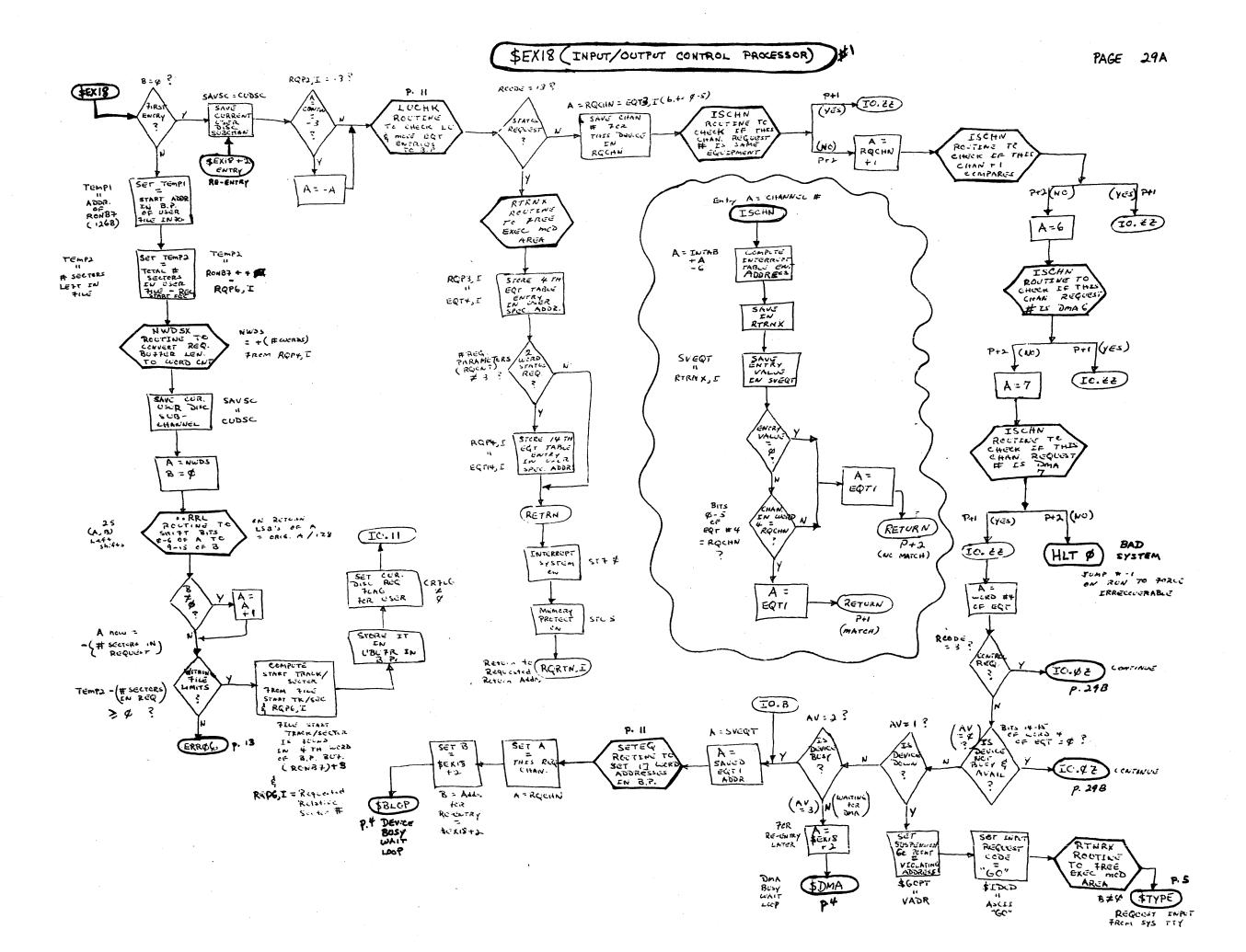


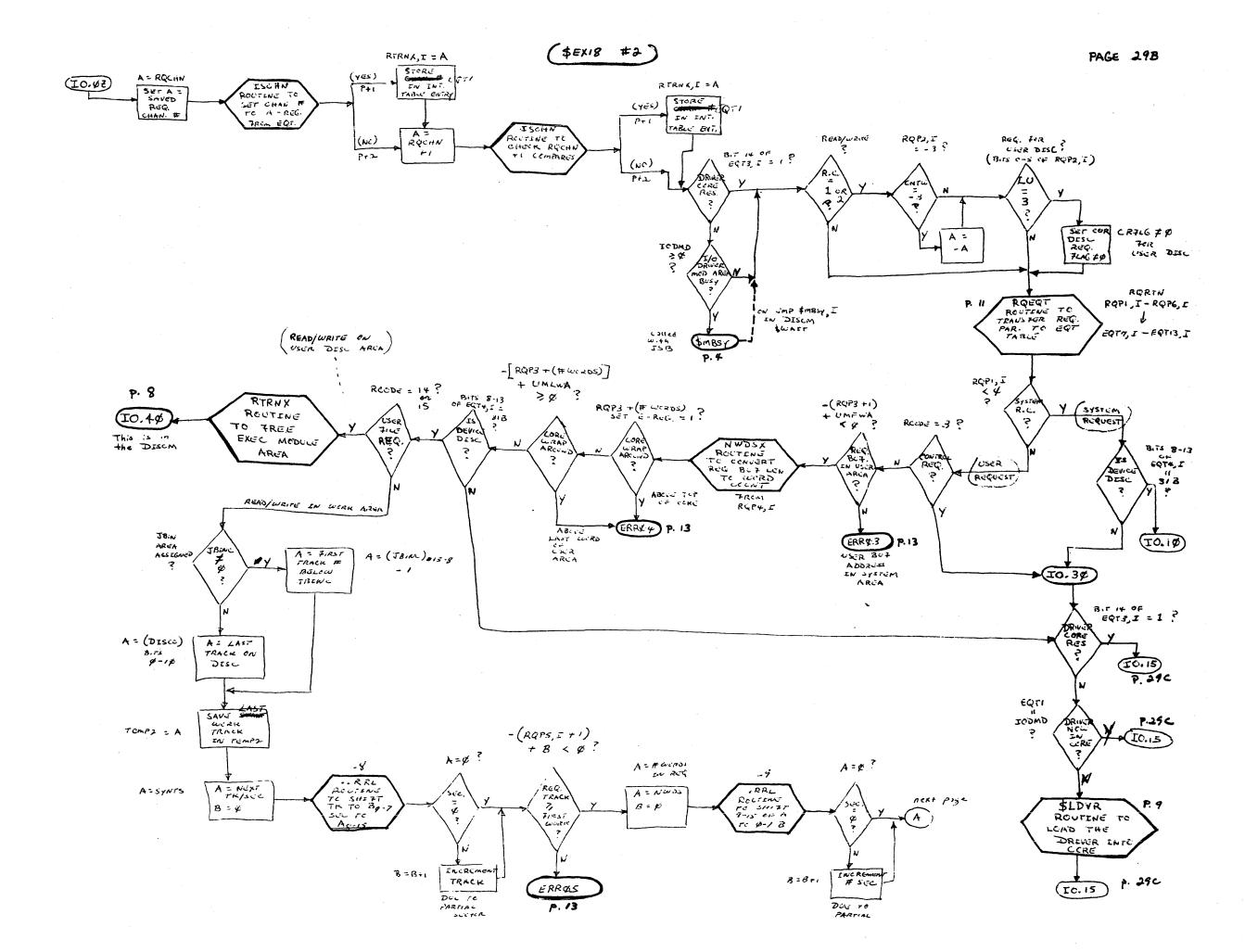


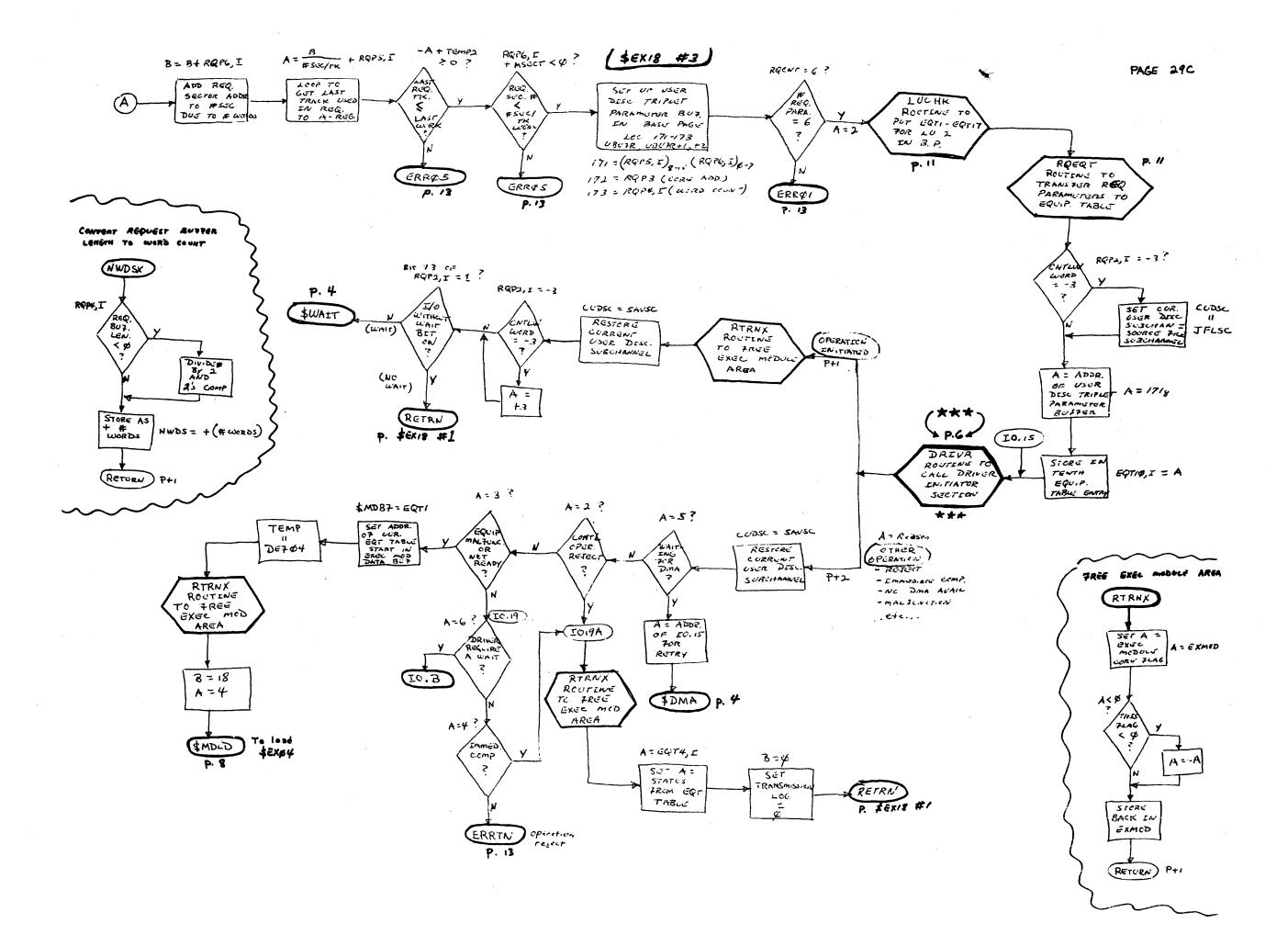


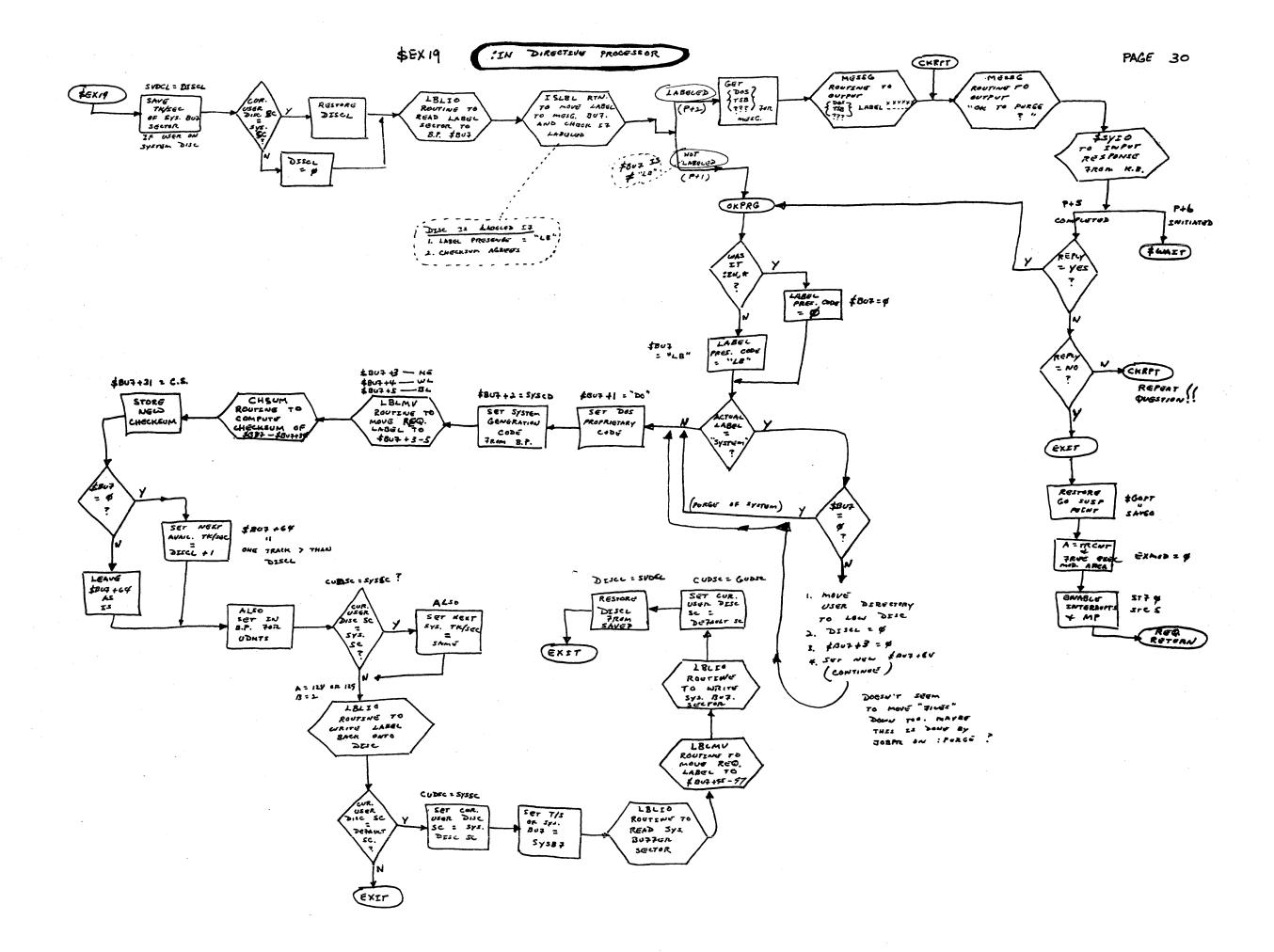








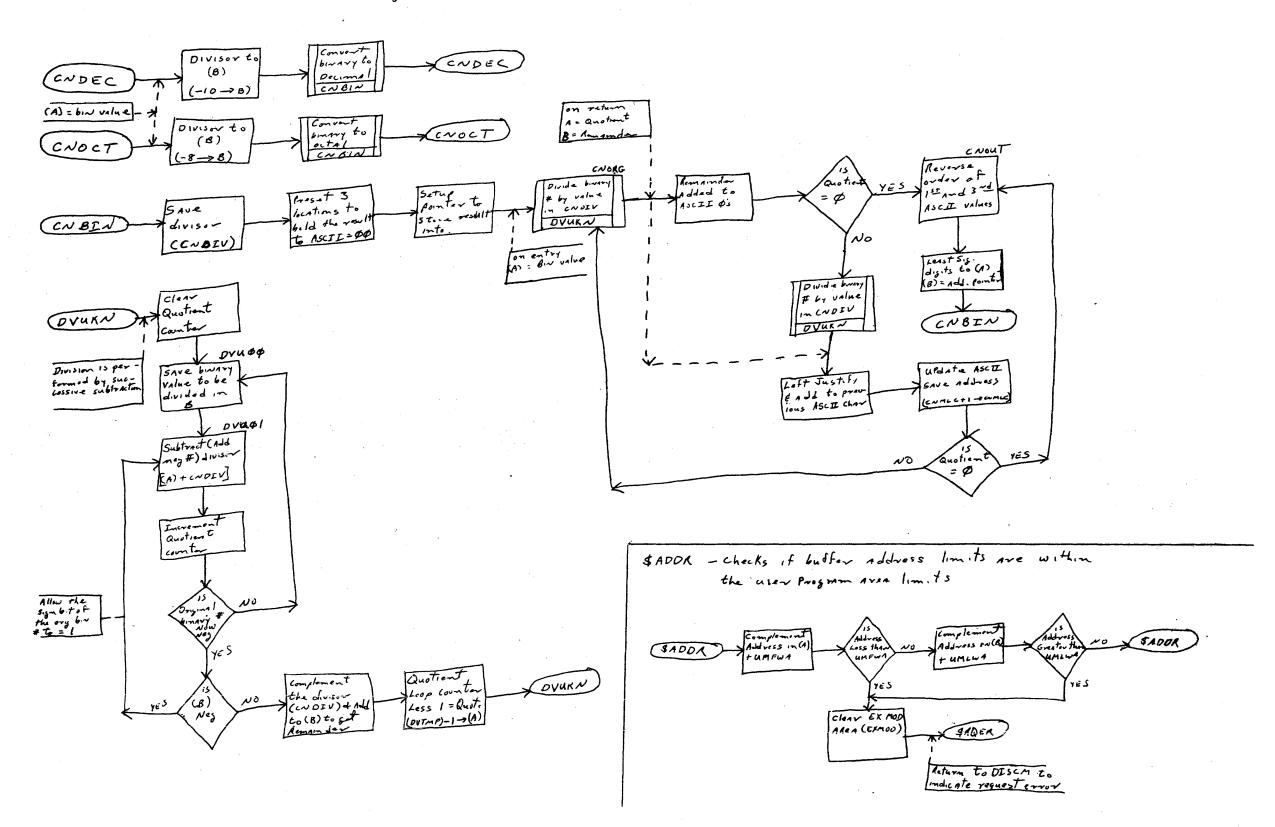


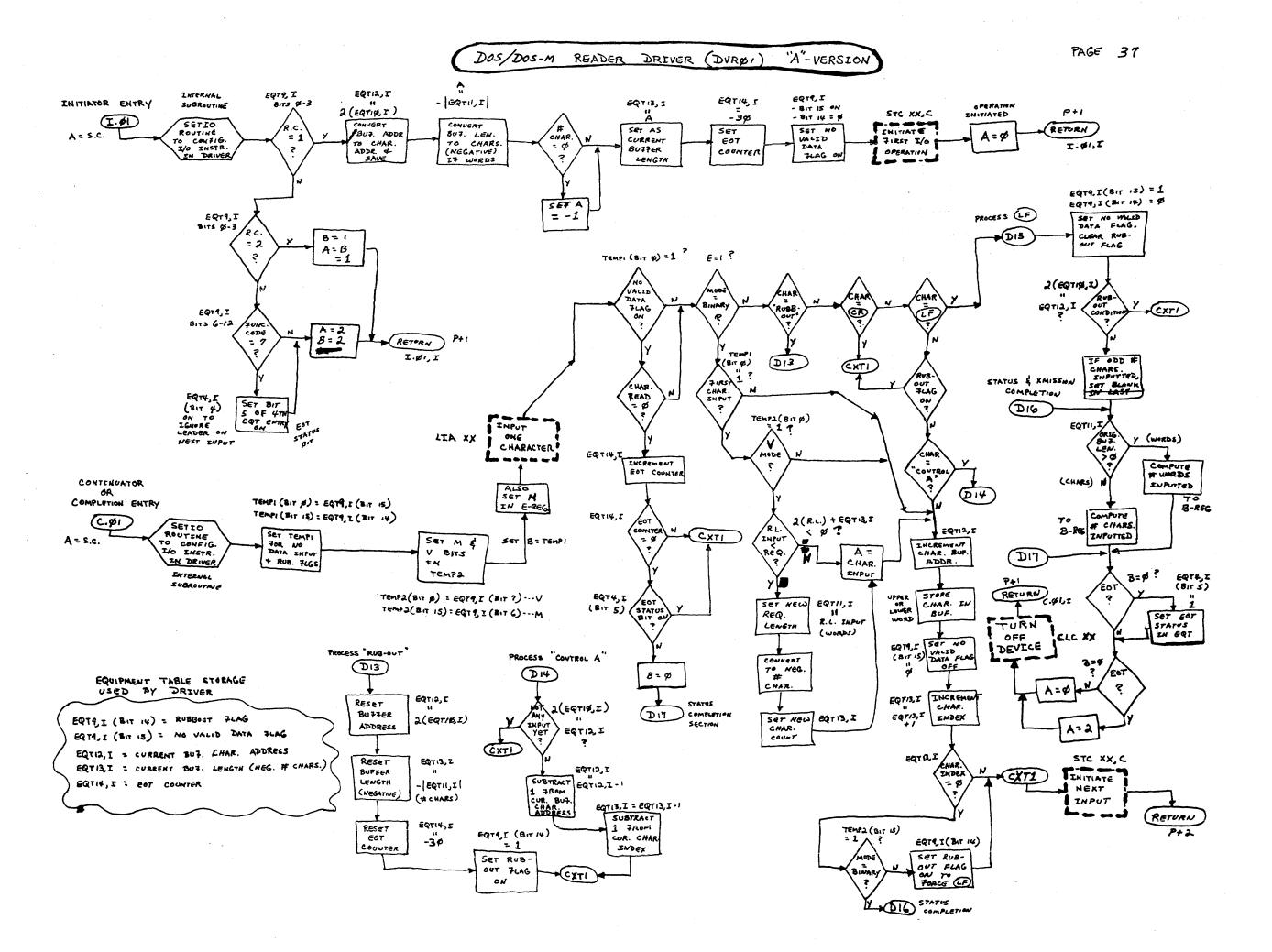


ASCII - Convert Binary to ASCII Octal or Decimal Calling sequence: LDA < Value in binary>
SSB CNDEC/CNOCT

Return: (A) Least significant 2 digits

(B) Address of most significant digits





DOS/DOSM MINIMUM HARDWARE COST COMPARISON

PRICE

,			
PF	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF:	115V 60Hz	230V 50Hz
1.		\$20,000	\$20,000
/ 2.		3,000	3,000
/ 4:	Extended Arithmetic Unit, Accessory No 12579A Memory Parity Check, Accessory No. 12591A	3,000 1,000	3,000 1,000
/ 5.		1,000	1,000
6	Memory Protect, Accessory Kit No. 12581A	2,000	2,000
	Teleprinter Input/Output consisting of:	_,,	-, 5
	HP 2752A Teleprinter (Modified Teletype ASR-33) with	1,250	1,450
	HP 12531B Teleprinter Input/Output Interface Kit	750	750
\ . 8.	Teleprinter Input/Output, consisting of:		
\ .	HP 2754B Heavy-Duty Teleprinter (modified Teletype ASR-35) with	3,850	4,250
\	HP 12531B Teleprinter Input/Output Interface Kit	750	750
\	Disc Memory consisting of:	17,000	17 200
\	HP 2770A Disc Memory (368,640 words non-expandable) HP 2772A Disc Memory Power Supply	2,500	17,200 2,700
\	HP 12606A Disc Memory Interface Kit	4,000	4,000
\10.		900	900
\			
`	TOTAL COST	\$61,000	\$62,000
	(Four-Year Lease @ \$1,690/month)		•
	(2002 2002 2000 0 72,020,000)		
/			ICE
PF	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF:	• 115V 60 Hz	230V 50 Hz
	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF:	· 115V 60 Hz	230V 50 Hz
1.	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory	• 115V 60 Hz \$13,000	230V 50 Hz \$13,100
1 2	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A	• 115V 60 Hz \$13,000 1,500	230V 50 Hz \$13,100 1,500
1.22.33	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A	• 115V 60 Hz \$13,000	230V 50 Hz \$13,100
1.22.33	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of:	\$13,000 1,500 1,000	230V 50 Hz \$13,100 1,500 1,000
1. 2. 3. 4.	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with	• 115V 60 Hz \$13,000 1,500	230V 50 Hz \$13,100 1,500
1 . 2 . 3 . 4 . DOSM	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of:	\$13,000 1,500 1,000 1,250 750	230V 50 Hz \$13,100 1,500 1,000 1,450 750
1 . 2 . 3 . 4 . DOSM	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of: HP 2748A Punched Tape Reader with	\$13,000 1,500 1,000 1,250 750	230V 50 Hz \$13,100 1,500 1,000 1,450 750
DOSM 5	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of: HP 2748A Punched Tape Reader with HP 12597A-002 Punched Tape Interface Kit	\$13,000 1,500 1,000 1,250 750	230V 50 Hz \$13,100 1,500 1,000 1,450 750
DOSM 5	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of: HP 2748A Punched Tape Reader with HP 12597A-002 Punched Tape Interface Kit Cartridge Disc Memory System, consisting of:	\$13,000 1,500 1,000 1,250 750	230V 50 Hz \$13,100 1,500 1,000 1,450 750
DOSM 5	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of: HP 2748A Punched Tape Reader with HP 12597A-002 Punched Tape Interface Kit Cartridge Disc Memory System, consisting of: HP 2870A Disc Drive (includes HP 12536A Disc Cartridge)	\$13,000 1,500 1,000 1,250 750 1,500 600	230V 50 Hz \$13,100 1,500 1,000 1,450 750 1,600 600
DOSM 5	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of: HP 2748A Punched Tape Reader with HP 12597A-002 Punched Tape Interface Kit Cartridge Disc Memory System, consisting of: HP 2870A Disc Drive (includes HP 12536A Disc Cartridge) HP 2871A Disc Controller	\$13,000 1,500 1,000 1,250 750	230V 50 Hz \$13,100 1,500 1,000 1,450 750
DOSM 5	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of: HP 2748A Punched Tape Reader with HP 12597A-002 Punched Tape Interface Kit Cartridge Disc Memory System, consisting of: HP 2870A Disc Drive (includes HP 12536A Disc Cartridge) HP 2871A Disc Controller HP 2881A Power Supply	\$13,000 1,500 1,000 1,250 750 1,500 600	230V 50 Hz \$13,100 1,500 1,000 1,450 750 1,600 600
DOSM 5	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of: HP 2748A Punched Tape Reader with HP 12597A-002 Punched Tape Interface Kit Cartridge Disc Memory System, consisting of: HP 2870A Disc Drive (includes HP 12536A Disc Cartridge) HP 2871A Disc Controller HP 2881A Power Supply HP 2882A Cabinet	\$13,000 1,500 1,000 1,250 750 1,500 600	230V 50 Hz \$13,100 1,500 1,000 1,450 750 1,600 600
DOSM 5	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of: HP 2748A Punched Tape Reader with HP 12597A-002 Punched Tape Interface Kit Cartridge Disc Memory System, consisting of: HP 2870A Disc Drive (includes HP 12536A Disc Cartridge) HP 2871A Disc Controller HP 2881A Power Supply HP 2882A Cabinet HP 12557A Disc Interface Kit	\$13,000 1,500 1,000 1,250 750 1,500 600	230V 50 Hz \$13,100 1,500 1,000 1,450 750 1,600 600 13,650
DOSM 5	OVIDES MINIMUM HARDWARE CONFIGURATION CONSISTING OF: 2114B Computer with 8K memory Direct Memory Access, Accessory Kit No. 12607A Memory Parity Check with Interrupt, Accessory Kit No. 12598A System Console, consisting of: HP 2752A Teleprinter (Modified Teletype ASR-33) with HP 12531B Teleprinter Input/Output Interface Kit System Input, consisting of: HP 2748A Punched Tape Reader with HP 12597A-002 Punched Tape Interface Kit Cartridge Disc Memory System, consisting of: HP 2870A Disc Drive (includes HP 12536A Disc Cartridge) HP 2871A Disc Controller HP 2881A Power Supply HP 2882A Cabinet	\$13,000 1,500 1,000 1,250 750 1,500 600	230V 50 Hz \$13,100 1,500 1,000 1,450 750 1,600 600

HP DOSM/IBM 1130 COST COMPARISON

HP DOS-M		IBM 1130		
MINIMUM SYSTEM (WITH PAPER TAPE)	PURCHASE	MINIMUM SYSTEM (WITH PAPER TAPE)	PURCHASE	
2114B (2.0 MICROSEC) OPTION 4 (8K MEMORY TOTAL)	\$ 8,500 4,500	1131-2A (3.6 MICROSEC) TTY/PRINTER CONSOLE	\$ 34,610	
12591A Memory Parity CHECK	1.000	4K core, 500K disc		
12367A DIRECT MEMORY ACCESS	1.500	1134 PAPER TAPE READER	1.270	
2870A CARTRIDGE DISC DRIVE	8.700	(60 CHARACTERS/SEC)		
2871A DISC CONTROLLER	2.800	3623 P.T. READER ATTACHMENT	450	
12557A DISC INTERFACE 2882A DISC CABINET	2,500 600	1055 Paper Tape Punch (14.8 character/sec)	900	
2881A Disc Power Supply	1,400	7923 P.T. Punch ATTACHMENT	900	
2752A TELEPRINTER ASR-33	1,250	7323 THE FORCE ATTACHMENT	300	
125318 Teleprinter Interface	750	CULTU CAPP 1 (O)	\$ 38,130	
2784A PAPER TAPE READER	1,500	(WITH CAFD I/O) 1131-2A as shown above	34,610	
2/89A PAPER TAPE READER (500 CHARACTERS/SEC)	1,300	1442 CARD READER/PUNCH	12,750	
12597A 2.T. READER INTERFACE	600	(160 columns/sec)	14,730	
		4419 CARD READER/PUNCH ATTACHMENT	1,525	
		3630 1442 INTERFACE	225	
	\$ 35,600 1		\$ 49,110	
PICAL SYSTEM	PURCHASE	TYPICAL SYSTEM	PURCHASE	
2114B (2.0 MICROSEC)	\$ 8,500	1131-3B (2.2 MICROSEC)	\$ 58,050	
OPTION 4 (8K MEMORY TOTAL)	4,500	TTY/PRINTER CONSOLE		
12591 Memory Parity CHECK	1,000	8K CORE, 500K DISC		
2870A CARTRIDGE DISC DRIVE	8,700	1134 PAPER TAPE READER	1,270	
2871A Disc Controller 12557A Disc Interface	2.800 2.500	(60 CHAR/SEC)		
2882A DISC CABINET	2,500 600	3623 P.T. READER ATTACHMENT	450	
2881A Disc Power Supply	1.400			
2752A TELEPRINTER ASR-33	1.250	1055 Paper Tape Punch	900	
125518 TELEPRINTER INTERFACE	750	(14.8 CHAR/SEC)	700	
2748A PAPER TAPE READER	1.500	7923 P.T. PUNCH ATTACHMENT	900	
(500 char/sec)		1132 LINE PRINTER	11,350	
12597A P.T. READER INTERFACE	600	82 LPM ALPHAMERIC		
2753A PAPER TAPE PUNCH	3.300	110 LPM Numbric		
(120 CHAR/SEC)		2310 Disc Drive	12.150	
12597A P.T. PUNCH INTERFACE	- 600	500K words		
2767A LINE PRINTER (80 col. 356-1110 LMP)	19.000			
12653A LINE PRINTER INTERFACE	2,500			
	\$ 52,000		\$ 85,079	

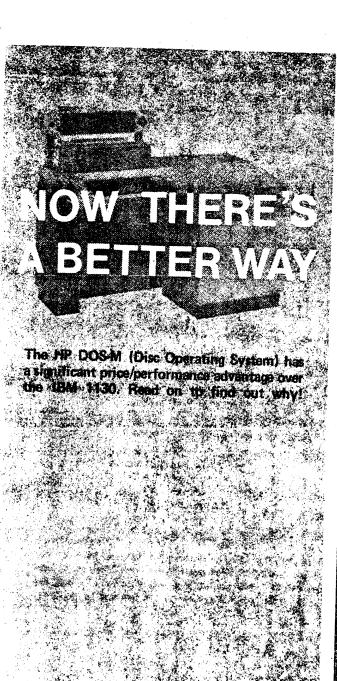
DOSM HARDWARE OPTIONS

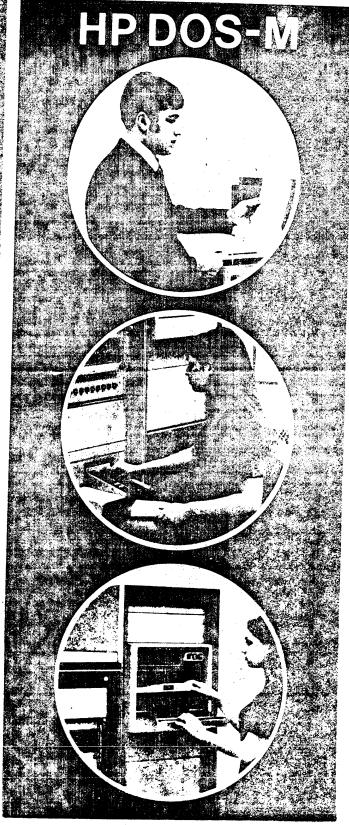
- 1. ADDITIONAL MEMORY
 16,384 or 32,768 words on 2116B
- 2. <u>ADDITIONAL I/O CHANNELS</u>

 EXTENDERS ARE AVAILABLE FOR 2114B OR 2116B
- 3. TIME BASE GENERATOR (TBG)
- 4. EXTENDED ARITHMETIC UNIT (EAU)

 AVAILABLE ONLY ON 2116B
- 5. MEMORY PROTECT (MP)

 AVAILABLE ONLY ON 2116B
- 6. PHOTOREADER
- 7. PAPER TAPE PUNCH
- 8 LINE PRINTER (2778A CDC or 80 COLUMN D.P.)
- 9. MARK SENSE CARD READER
- 10. MAGNETIC TAPE (3030A or 7970A)
- 11. CALCOMP PLOTTER
- 12. UP TO THREE ADDITIONAL DRIVES





COMPANY PRIVATE

THE INFORMATION CONTAINED HEREIN IS FOR THE INTERNAL USE OF HP EMPLOYEES ONLY. PRICES AND SPECIFICATIONS SUBJECT TO CHANGE.



INTRODUCTION

The IBM 1130 is a desk size, word-oriented computer intended primarily for small scale scientific applications. It can also serve as a low cost processor for certain business applications that do not require high I/O speeds. IBM announced the 1130 system in 1965, and the initial customer deliveries were made an November, 1965.

Since the initial introduction, a number of software and hardware announcements have followed (i.e., a 2.2 microsecond cycle time versus 3.6, more peripheral flexibility, commercial subroutine packages, etc.).

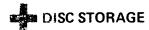
It is purported that IBM has between 6500 and 7500 units in the field.

HP DOS-M VS IBM 1130

COMPARISON

DOS-M

IBM 1130



1. MAXIMUM ON LINE

4.8 million words

2.5 million words

2. AVERAGE RANDOM ACCESS TIME

90 milliseconds

790 milliseconds



1. CYCLE TIME

2 microseconds on the 2114B 1.6 microseconds on the 2116B 2.2 to 3.6 microseconds depending on the CPU model

2. MEMORY SIZE

8K in the 2114B

Expandable to 32K in the 2116B

Expandable from 4K to 32K

IMPLICATIONS:

DOS-M requires much less time than the 1130 to retrieve information from core or disc. This significantly decreases the amount of overhead involved in system and user program execution. The quantity of disc storage available on line may be expanded to 4.8 million words — (approximately twice the amount available on the 1130).

I/O DEVICE INTERFACING

1. NUMBER OF DEVICES

A maximum of 24 peripherals may be interfaced to a DOS-M.

A maximum of 11 peripherals may be attached to an 1130.

2. KINDS OF DEVICES

Instrumentation devices may be easily interfaced to the system.

Non-IBM devices are extremely difficult to interface to this system.

Normally only one peripheral of each

3. DEVICES OF THE SAME TYPE

The user may attach several peripherals of the same type to the system.

type may be included in the system.

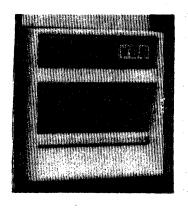
Note: 5 discs (max)

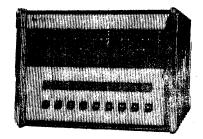
Note: 4 discs (max)

2 printers (max)

IMPLICATIONS:

The DOS-M system is capable of supporting a much more varied range of peripherals than the 1130. Each HP system may be custom configured to the peripheral needs of the user.







COMPARISON

DOS-N

IBM 1130



SYSTEM PROTECTION

1. HARDWARE DISC PROTECT

Standard

None

2. SOFTWARE SYSTEM PROTECT Yes

Yes

IMPLICATIONS:

Hardware disc protect insures the integrity of DOS-M; the 1130 system, on the other hand, can be destroyed by user software. (Users have called the 1130 crash prone.)



SYSTEM BACK UP

1. BACK UP CREATION (minimum configuration)

DOS-M system programs, user programs, and data files may be copied from the fixed portion of the disc to the disc cartridge. This back up cartridge may then be removed, stored off line, and replaced with a scratch cartridge.

IBM supplies 1130 users with a card copy of the 1130 operating system. Back up for user programs or data files, however, must be obtained by copying them from disc to punched cards. (IBM 1130s may use paper tape I/O instead of card I/O, but such systems are rare.)

2. RESTORATION FROM BACK UP (minimum configuration)

System restoration may be accomplished by copying the contents of the back up cartridge onto the fixed portion of the disc. The back up cartridge may then be removed and replaced with a scratch cartridge.

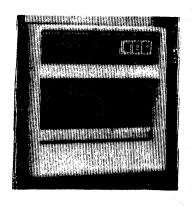
In a minimum 1130 system, the user must restore system software, user programs, and user files by copying information from punched cards to disc.

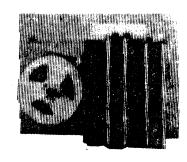
IMPLICATIONS:

On a minimum 1130 system, back up for user programs and data files may only be created on punched cards. DOS-M, on the other hand, does not require card punch hardware but is capable of creating a spare copy of disc resident information quickly, efficiently, and in an easily storable form — a cartridge disc pack.

If a one disc 1130 system fails, the software must be copied from card to disc — at least a 30 minute process. A DOS-M system, however, may be restored by copying software from disc to disc.

Each user at a DOS-M installation may keep an off line copy (disc pack) of a system custom configured to his needs — system programs, user programs, source files, and data files.







COMPARISON

DOS-M

IBM 1130



SYSTEMS FEATURES

1. SOURCE FILE CAPABILITY

User may store copies of source programs none

in named disc files on line.

2. SOURCE FILE EDITING

User may insert, delete, or replace disc none

file source statements on line.

IMPLICATIONS:

The ability of DOS-M to store and edit disc source programs on line makes the system extremely useful for software development work. Once source statements have been stored on disc, they may be edited and recompiled directly from disc. All source program editing on the 1130, however, must be done off line; recompilation requires the user to reload his card deck or source tape.

3. DATA FILE ADDRESSING

DOS-M allows the user to read or write data on disc by file name and relative sector or by actual track and sector address. Both addressing methods may be used in Fortran or Assembly language.

The 1130 system allows Fortran users to address data files by number in READ or WRITE statements. Assembly language disc I/O subroutines require actual track and sector addresses and therefore cannot make use of symbolic file addressing.

IMPLICATIONS:

The ability of DOS-M to address information on disc by file name makes file handling more mnemonic and simpler to use.

4. USER PROGRAM SEGMENTATION AND OVERLAY

The user must segment his program and code segment overlay requests.

Fortran subprograms may behave as automatically called overlay segments if the original program size exceeds available core. This "Automatic Segmentation" is not available if the main program is written in Assembly language. User controlled segmentation is also available.

IMPLICATIONS:

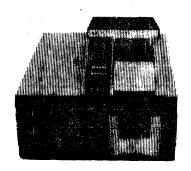
"Automatic Segmentation" is a strong feature of the 1130. It should be noted, however, that it will not segment main programs but treats subroutines as segments. If the main program and overlay area are larger than available core, the user must segment his program.

The use of the "Automatic Segmentation" feature may increase a program's execution time very substantially — (in direct proportion to the number of time consuming overlay requests) due to the slow (790 millisecond access time) disc.

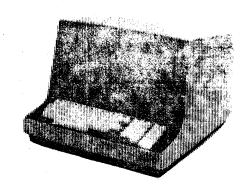
Assembly language system development work may not use the "Automatic Segmentation" feature.







DOS-M



IBM 1130

5. RESIDENT MONITOR (size)

3500₁₀ locations

From 480₁₀ to 930₁₀ locations.

IMPLICATIONS:

The limited size of the 1130 monitor leaves more core available for user program execution but requires that the bulk of the system be kept on disc. By making only a small portion of the system core resident, the 1130 incurs greater disc transfer overhead during system program execution.

Since program segmentation may be used with the 1130 and DOS-M, the amount of user available core is seldom critical. Indeed, the whole purpose of a disc operating system is to use mass storage to extend limited core storage.

6. PROGRAM DEBUGGING FACILITIES

The DOS-M system permits the user to dump an octal core image of his program. Dumps may be taken whether the program terminates normally or aborts execution. An additional debug package allows the user to monitor his program's execution on line.

There are several core dump routines available for the 1130. Some of these programs must be called by the user during the execution of his program, while others must be loaded off line and executed.

IMPLICATIONS:

The core dump on abnormal program termination and the debug package of DOS-M make it very useful in a software development environment. All core dumps and debug facilities do not require any modification of the user's in line code. All on line 1130 core dumps, however, require that the user either place calls to dump routines into his program code, or use an off line dump routine.

7. I/O DEVICE REFERENCE TECHNIQUES

I/O devices are referenced using logical unit numbers. These numbers correspond to various I/O functions — system input, list, punch, etc.

Logical unit assignments may be changed on line to associate any appropriate system device with a given logical unit number. The 1130 references peripherals with a set of numbers assigned to each type of I/O device which may be attached to the system.

Unit reference number assignments are permanently determined. In a Fortran program, however, the user may substitute a variable unit reference number which will be determined at execution time.

IMPLICATIONS:

DOS-M programs coded with logical unit numbers may be executed on any other DOS-M system regardless of hardware configuration. If 1130 programs use constant logical unit numbers, they may not be compatible with other 1130 hardware configurations. (Devices associated with fixed logical unit numbers cannot be changed on line in the 1130 system.)

SUPPORTING SOFTWARE

1. TRANSLATORS

Assembly language FORTRAN II or IV ALGOL

Assembly language FORTRAN IV subset RPG

RPG

COBOL (available Feb. 1971)

APL

2. USER APPLICATION PACKAGES

under development

petroleum exploration and engineering

type composition

civil engineering coordinate geometry math pack - 20 Fortran subroutines

electric field theory

elasticity
fluid flow etc.
Statistical system

numerical surface techniques countour map plotting commercial subroutine package (21 Fortran subroutines)

3. SOFTWARE COST

All presently available system software is furnished free of charge with a DOS-M system. The pricing structure on applications packages will be announced as they become available.

All IBM 1130 software developed prior to "unbundling" (June 23, 1969) is available without charge. Recently developed software, however, will be rented on a monthly basis. (The 1130 COBOL compiler will rent for \$75/month.)

IMPLICATIONS:

The quantity of applications software available is one of the strongest features of the IBM 1130. The majority of these programs are available free of charge. It should be noted, however, that OEMs will be primarily interested in the quality of the operating system itself and the ease with which the system may be used to develop specific user-oriented applications packages.

DATA COMMUNICATIONS

At this time no data communications software capability is available with the DOS-M. All hardware cards needed to implement this capability are presently available, however, and may be used by a customer to develop his own applications software.

The 1130 may act as a remote job entry work station for a larger IBM 360 operating system. In this capacity, the 1130 sends jobs via telephone lines to the larger system and outputs results sent back. If the 1130 has at least 16K of core, job output can be buffered on the disc and dumped after the remote job entry processing is terminated.

IMPLICATIONS:

The 1130 system's ability to communicate with a larger computer is certainly a powerful feature. It should be noted, however, that all programs and job control language sent to a 360 system must be 360 operating system compatible. (if an 1130 user has an assembly language program which he wishes to run with remote job entry, the program must be in IBM 360 assembly language and must have the appropriate 360 job control language statements associated with it.)

PRICING STRUCTURE

IMPLICATIONS

Although the DOS-M system purchase price is significantly (15 to 65%) less than that of a comparable 1130 system, IBM offers a variety of attractive lease/rental plans including 30 and 90 day cancellation options. This can be a significant advantage in the educational market. IBM does not, however, offer an educational discount on the 1130 system.

MINIMUM SYSTEM (with paper tape)	PURCHASE	MINIMUM SYSTEM (with paper tape)	PURCHASE
2114B (2.0 microsec) Option 4 (8K memory total)	\$8,500 4,500	1131-2A (3.6 microsec) TTY/Printer Console 4K core, 500K disc	\$34,610
12591A Memory Parity Check 12067A Direct Memory Access	1,000	1134 Paper Tape Reader (60 characters/sec)	1,270
1206/A Direct Wemory Access	1,500	3623 P.T. Reader Attachment	450
2870A Cartridge Disc Drive 2871A Disc Controller 12557A Disc Interface	8,700 2,800 2,500	1055 Paper Tape Punch (14.8 character/sec)	900
2882A Disc Cabinet 2881A Disc Power Supply	600 1,400	7923 P.T. Punch Attachment	900
2752A Teleprinter ASR-33	1,250	(with card I/O)	\$38,130
12531B Teleprinter Interface	750	1131-2A as shown above	\$34,610
2748A Paper Tape Reader (500 characters /sec)	1,500	1442 Card Reader/Punch (160 columns/sec)	12.750
(300 01010010137300)		4419 Card Reader/Punch Attachment	1,525
12597A P.T. Reader Interface	600	3630 1442 Interface	225
	\$35,600		\$49,110

HP DOS-M	PRI COMPA		0
TYPICAL SYSTEM	PURCHASE	TYPICAL SYSTEM	PURCHASE
2114B (2.0 microsec) Option 4 (8K memory total) 12591A Memory Parity Check	\$8,500 4,500 1,000	1131-3B (2.2 microsec) TTY/Printer Console 8K core, 500K disc	\$58,050
12067A Direct Memory Access 2870A Cartridge Disc Drive 2871A Disc Controller 12557A Disc Interface	1,500 8,700 2,800	1134 Paper Tape Reader (60 char/sec)	1,270
2882A Disc Cabinet 2881A Disc Power Supply	2,500 600 1,400	3623 P.T. Reader Attachment	450
2752A Teleprinter ASR-33 12531B Teleprinter Interface	1,250 750	1055 Paper Tape Punch (14.8 char/sec)	900
2748A Paper Tape Reader (500 char/sec)	1,500	7923 P.T. Punch Attachment	900
12597A P.T. Reader Interface 2753A Paper Tape Punch (120 char/sec)	600 3,300	1132 Line Printer 82 LPM Alphameric 110 LPM Numeric	11,350
12597A P.T. Punch Interface	600	TTO LIMITAGNOTO	
2767A Line Printer (80 col. 356-1110 lpm)	10,000	2310 Disc Drive 500K words	12,150
12653A Line Printer Interface	2,500		
	\$52,000		\$85,070



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M Enters the Mint-Computer Market 's It Unveils 2 New Models, Its Cheapest

Bu a White Supper Joueng Weat Reported that Noted a Their and that Business Man chippe Door Interchood two entert engages no office and industrial applications.

The two fire the mast expensive that the wild's largest computer trainer his disrect and when the description for the first time with rest crack what have come to be called made computers.

Detail Equipment Corp of Maying M. has been the deficient manufacturer of militarian where it is described and a source of the priced under \$10.000 and as done as \$5.00. The source

under \$10,000 and as how as \$5,000 princes index as 18,000 r purers have been used jurgely for calculations meets, ensity inou. and it desired, forwing scientists and engineers, but like the leing the date to a larger control computer.

applied intrinsingly to industrial trocksees. As do several functioning are already and some small business uses. Other leading the marries, the System 7 him a main memory manufacturers include Honeywell Dic., Various has of the usual magnetic cores. General Corp.

Trading in Digital Equipment's atock on the American Stock Exchange years lay reacted sharply to IBM's announcement Digital Equipment closed at 501 86, down 27% tenta a share. During ting day it Irades as law as \$57.50. IBM, traded on the New York Stock Exchange, closed at \$298,50, up \$5.50 a share.

The new IRM model that can be considered a mini-computer is the System 7, designed specularly to monitor and control industrial and laboratory processes. It may be purchased for a minimum of \$16.065 or rented for \$352 a month and up First deliveries to customers are scheduled for November 1971.

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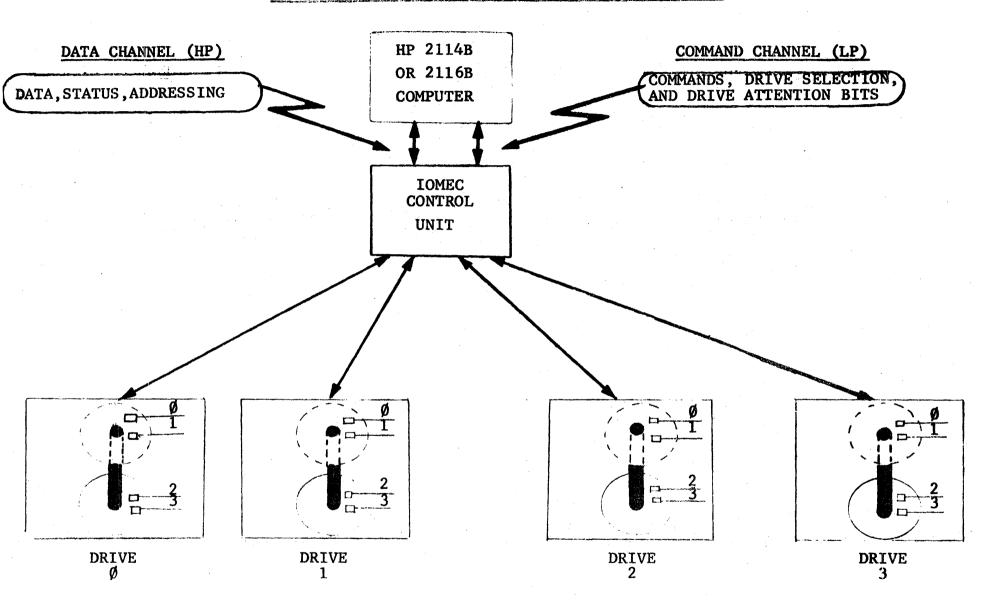
available for purchase as component by other assembling of collect systems, who surrendy represent a large chare of the market for mind-companion. We'll be delighted to see this to anybody," Mr. Rodgers replied.

IBM's other new computer is the System. Model 6, an extension of the System 3 small scale computer, since designated the Model 10 that was infreduced in 1969. System 3 compar ers are aimed for the most part at busines

DOSM ADVANTAGES AND DISADVANTAGES WITH RESPECT TO DOS

	ADVANTAGES		DISADVANTAGES
1.	LOWER INITIAL SYSTEM COST.	1.	SLOWER DISC AVERAGE ACCESS TIME (ABOUT 100 MILLISECONDS).
2.	LOWER DISC EXPANDABLE COST.		WEST TOO HILLIOLOGODS
3.	FLEXIBILITY IN OPTIONS (EAU, TBG, MP) SELECTION.	2.	CUMBERSOME AND SOMEWHAT CONFUSING SYSTEM BOOTSTRAP.
		3.	No other HP Disc based system
4.	Use of 2114B or 2116B.		(RTE, TSB).
5.	FLEXIBILITY IN DISC STORAGE MEDIUM WITH REMOVEABLE CARTRIDGE.	4,	Overselling 8K feature.
6.	DISC CONTENT PROTECTION.		
7.	DISC LABELING CAPABILITY.		
8.	LOWER CORE RESIDENT SYSTEM.		
9.	Interdisc file(s) transfer.		

COMPUTER/DISC CONTROLLANDISC DRIVES LAYOUT



PHYSICAL ALLOCATION FOR EACH DRIVE

203 CYLINDERS

4 TRACKS PER CYLINDER

12 SECTORS PER TRACK

128 WORDS PER SECTOR

TOTAL WORD CAPACITY PER DRIVE IS

203 X 4 X 12 X 128 = 1,247,232 WORDS

PHYSICAL ALLOCATION FOR EACH DISC

203 CYLINDERS

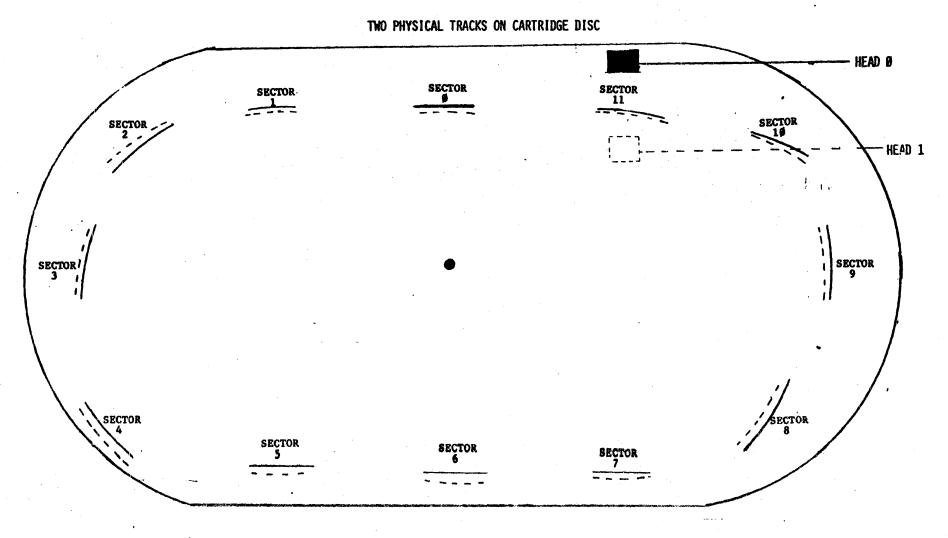
2 TRACKS PER CYLINDER

12 SECTORS PER TRACK

128 WORDS PER SECTOR

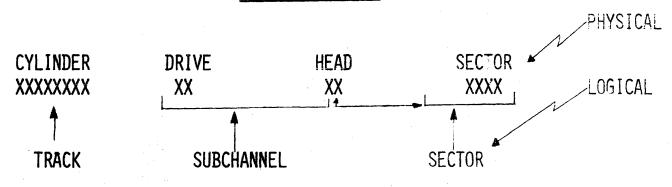
•• TOTAL WORD CAPACITY PER DISC IS

203 X 2 X 12 X 128 = 623,616 WORDS



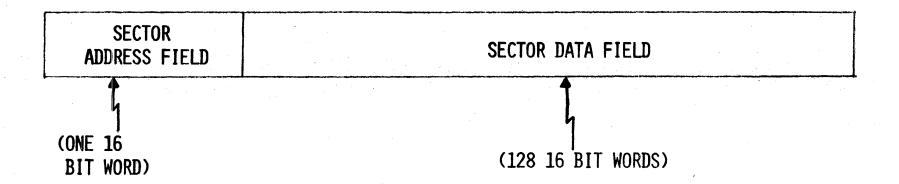
"TOP" SURFACE IS ONE PHYSICAL TRACK (12 SECTORS) FOR THIS POSITION OF HEAD Ø
"BOTTOM" SURFACE IS ONE PHYSICAL TRACK (12 SECTORS) FOR THIS POSITION OF HEAD 1
THERE ARE 202 OTHER POSITIONS (CYLINDERS) THESE HEADS MAY BE MOVED TO!

DISC ADDRESSING



SUBCHANNEL	DRIVE	HEADS	ADDRESSED DISC
000		10 11	FIXED DISC DRIVE Ø HEADS 2 & 3
001	00	00 01	CARTRIDGE DISC DRIVE Ø HFADS Ø & 1
010	01	10 11	FIXED DISC DRIVE 1 HFADS 2 & 3
011	01	00 01	CARTRIDGE DISC DRIVE 1 HEADS Ø & 1
100	10	10 11	FIXED DISC DRIVE 2 HEADS 2 & 3
101	10	00 01	CARTRIDGE DISC DRIVE 2 HEADS Ø & 1
110		10 11	FIXED DISC DRIVE 3 HEADS 2 & 3
111		00 01 ·	CARTRIDGE DISC DRIVE 3 HEADS Ø & 1

CONTENTS OF EACH SECTOR



1. SECTOR ADDRESS FIELD CONTAINS:

8 BITS FOR CYLINDER #

2 BITS FOR HEAD #

4 BITS FOR ITS SECTOR #

1 BIT USED FOR DCI (DEFECTIVE CYLINDER INDICATOR)
1 BIT USED FOR PCI (PROTECTED CYLINDER INDICATOR)

2. SECTOR DATA FIELD CONTAINS DATA TRANSFERRED TO AND FROM COMPUTER

NOTE:

BOTH FIELDS ARE CYCLIC CHECKED BY CONTROLLER

DOSM SOFTWARE COMPONENTS (PART 1)

PROGRAM System Generator *	NAME (S) DSGEN	GENERAL FUNCTION(S) DOSM System Generation User Disc and Cartridge Formatting
System Bootstrap 🏵	BOOTSTRAP	Preparation of configured System bootstrap
Disc Monitor	DISCM	Interrupt Processing (\$CIC) Executive Processor (EXEC) I/O Processor (\$IORQ)
Executive Modules	\$EXØ1 \$EXØ2 \$EXØ3 \$EXØ4 \$EXØ5 \$EXØ6 \$EXØ7 \$EXØ8 \$EX1Ø \$EX11 \$EX11 \$EX12 \$EX13 \$EX14 \$EX15 \$EX15 \$EX16 \$EX17 \$EX18 \$EX19 \$EX2Ø	Disc Work Track Status Disc Work Track Limits Program Completion Program Suspension Program Segment Load User File Name Search Current Time Processor Real-Time Disc Allocation Execution Time :EQ Processor Load and Execute Program System File Name Search System Startup Error Message Processor Execution Time :UP, :DN, :LU Processor Abort and Post Mortem Dump :GO Parameter Processor :UD Processor I/O Initiation Processor :IN Processor Disc Parity Error Processor
Executive Module Subroutines	\$LBL \$SRCH \$ADDR ASCII DUMRX	Service Routines for Label Checking Search System or User Directory Buffer Address Validity Check Convert Binary to ASCII RTE simulation routines
Special DOSM Drivers	DVRØ5 DVR31	System Teleprinter Driver Moving Head Disc Driver

This is an ABSOLUTE program executed in a separate process from the DOSM system

DOSM SOFTWARE COMPONENTS (PART 2)

PROGRAM	NAME (S)	GENERAL FUNCTION(S)
Job Processor	JOBPR	Directive Processing File Management
Relocating Loader	LOADR	Relocates relocatable binary code created by Assembler or Compilers.
Assembler	ASMBD ASMBD ASMB1 ASMB2 ASMB3 ASMB4 ASMB5	Translates Assembly language source code into binary. EAU or NON-EAU options included. —(MAIN SECTION) —(6 SEGMENTS)
HP Basic FORTRAN Compiler	FTNØ1 FTNØ2 FTNØ3 FTNØ4	Translates HP Basic FORTRAN source code into NON-EAU relocatable binary. —(MAIN SECTION) —(4 SEGMENTS)
ALGOL Compiler *	ALGOL ALGL1	Translates HP ALGOL source code into Non-EAU relocatable binary. —(MAIN SECTION) —(1 SEGMENT)
FORTRAN IV Compiler (4K user)	FTN4	Translates ASA FORTRAN IV source code into Non-EAU relocatable binaryConsists of one MAIN section -and 18 SEGMENTS.
FORTRAN IV Compiler (10K user)	FTN4	Translates ASA FORTRAN IV source code into NON-EAU relocatable binaryConsists of one MAIN section and 2 SEGMENTS.
CROSS REFERENCE TABLE GENERATOR	XREF	Generates Cross Reference Table for Assembly Language Source Code.

DOSM SOFTWARE COMPONENTS (PART 3)

DOS AND DOSM DRIVERS ***********

EQUIPMENT TYPE CODE (DVR)	DEVICE	DOS ONLY	DOSM ONLY	вотн	DMA
80	Teleprinter			X	Resident and a second
Ø1	Photoreader	Particular of the state of the		X	New Applications on
Ø 2	Punch			X	Chade
Ø5	Teleprinter		X	The design of th	Aprila" by orfacility
1ø	Plotter			Х	#Physicae County
12	2778A CDC Line Printer			Х	Magazi Me de
15	Mark Sense Card Reader		·	X	X
16	Data Products Line Printer (80 column)			X	Copy of which we have the common than the copy of the
22	3030 Mag. Tape			X	Mindred Property
23	7970 Mag. Tape			X	X
3Ø	Fixed Head Disc	Х			X
31	Moving Head Disc (10MEC)		X		X
32 3	Moving Head Disc (ISS) 11 platers pe		X		X

Equipment Type Code Numbering Convention

Paper Tape Devices Odd # for INPUT Unit Record Devices Even # for OUTPUT ØØ - Ø7

10 - 17

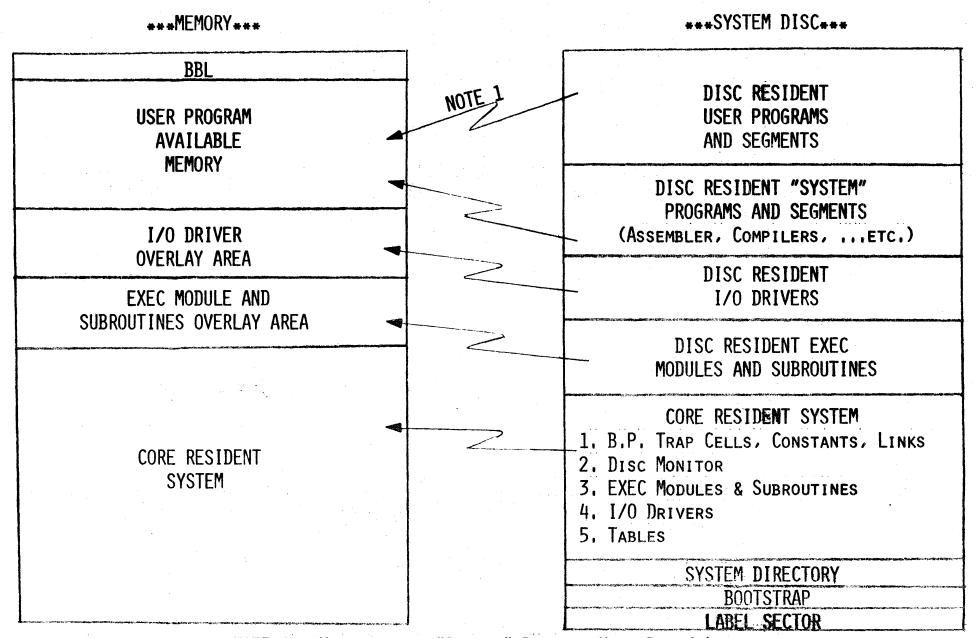
Mass Storage Devices 20 - 37

DOSM SOFTWARE COMPONENTS (PART 4)



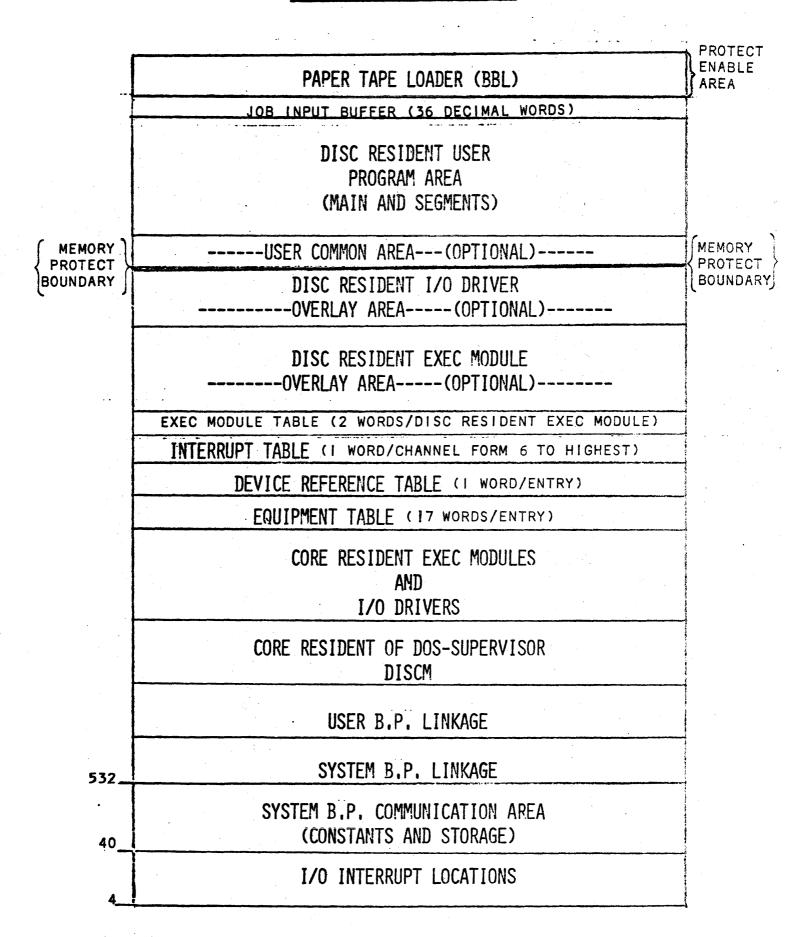
NAME	RELOCATABLE LIBRARY TYPE		
F2N.V	NON-EAU RTE/DOS/DOSM (no Formatter)		
F2E.V	EAU RTE/DOS/DOSM (no Formatter)		
F4D.V	RTE/DOS/DOSM FORTRAN IV with FORTRAN IV Formatter (Double Precision)		
•	RTE/DOS/DOSM HP FORTRAN Formatter (no Double Precision)		
	RTE/DOS/DOSM Plotter		
where	V = the revision letter (A, B, C)		
NOTES:	1. System must include F2N.V or F2E.V even if FORTRAN IV library (F4D.V) is to be included. This is because the FORTRAN IV library references routines whose entry points are in F2N.V and F2E.V libraries.		
	2. RTE/DOS/DOSM HP FORTRAN Formatter is seperate from F2N.V and F2E.V due to FORTRAN IV library (F4D.V) containing a formatter.		

DOSM DISC TO MEMORY TRANSFERS (GENERAL)

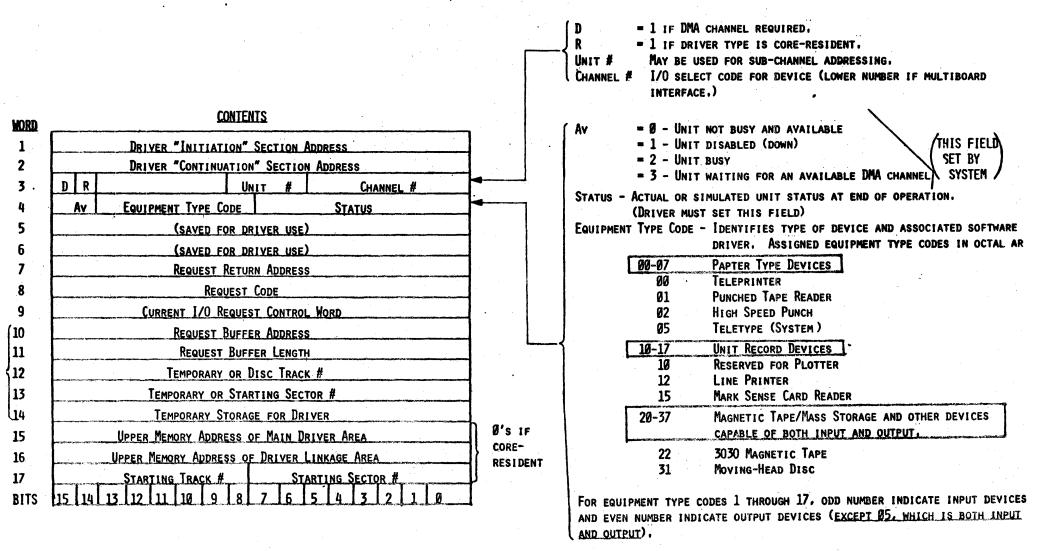


NOTE 1: MAY BE FROM "SYSTEM" DISC OR USER DISC(S)

DOSM GENERAL CORE LAYOUT



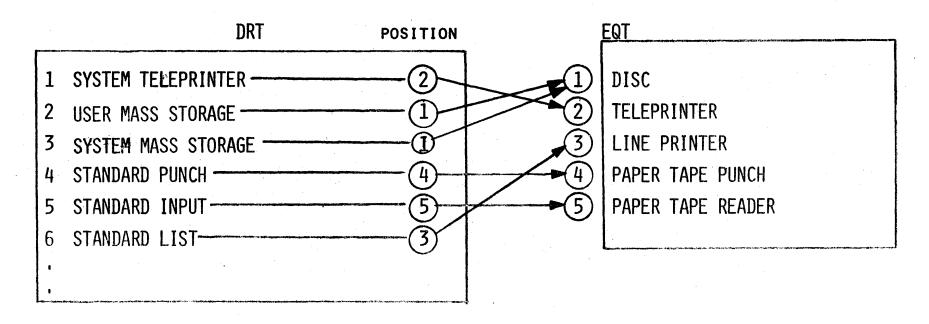
EQUIPMENT TABLE ENTRY FORMAT



AVAILABLE FOR DRIVER TEMPORARY

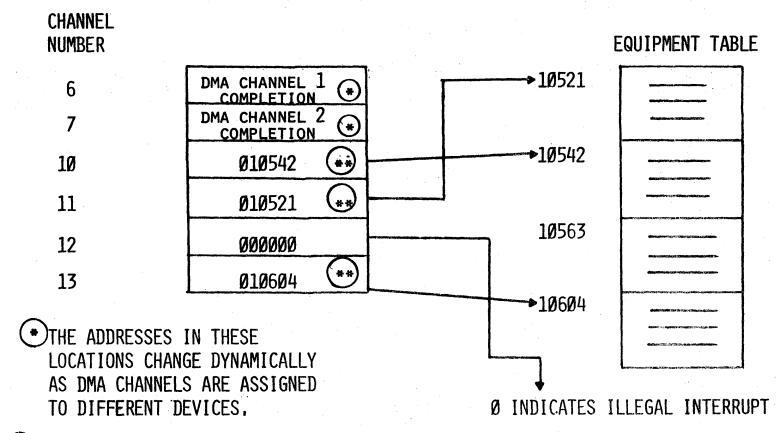
THE DEVICE REFERENCE TABLE

THE DEVICE REFERENCE TABLE PROVIDES FOR LOGICAL ADDRESSING OF PHYSICAL UNITS DEFINED IN THE EQUIPMENT TABLE. THE DRT CONSISTS OF ONE WORD ENTRIES CORRESPONDING TO THE RANGE OF USER-SPECIFIED LOGICAL UNITS (1 TO N. WHERE N \(\leq 63 \)). THE CONTENTS OF THE WORD CORRESPONDING TO A LOGICAL UNIT IS THE RELATIVE POSITION OF THE EQT ENTRY DEFINING THE PHYSICAL UNIT.

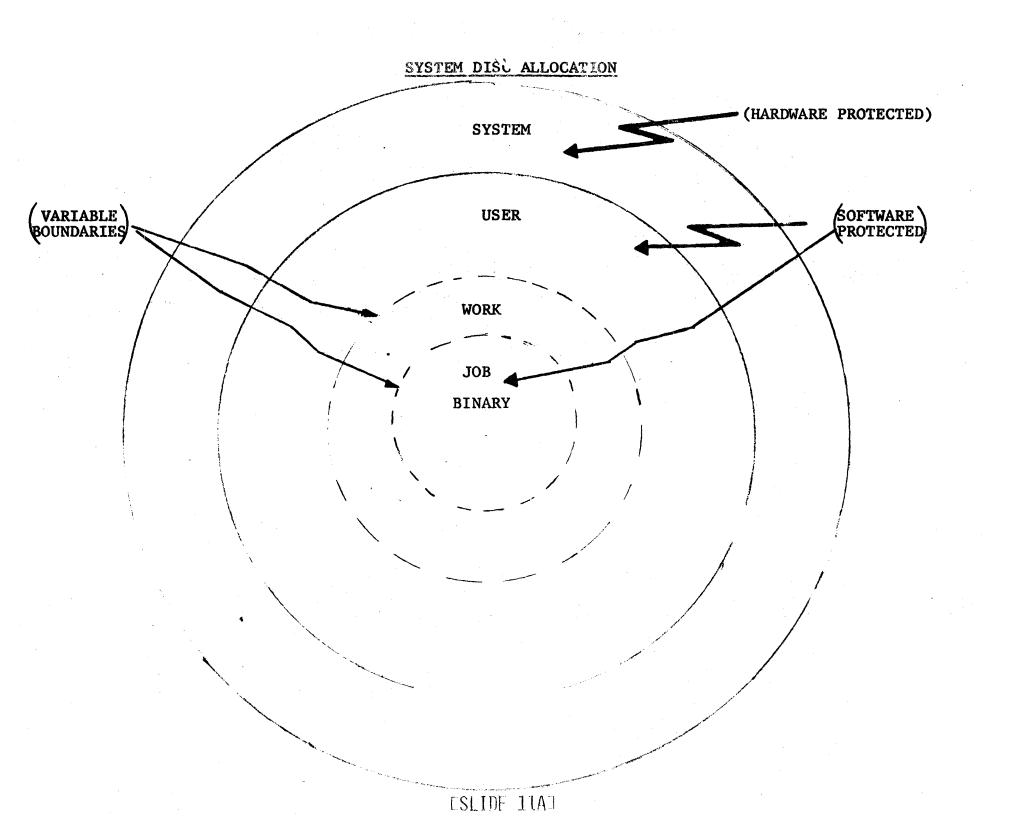


THE INTERRUPT TABLE

THE INTERRUPT TABLE CONTAINS A ONE WORD ENTRY FOR EACH I/O DEVICE. THESE ENTRIES CONTAIN THE ADDRESSES OF EQUIPMENT TABLE ENTRIES FOR DEVICES ASSOCIATED WITH THESE CHANNELS.



** THE ADDRESSES IN THESE LOCATIONS CHANGE DYNAMICALLY AS DIFFERENT EQT ENTRIES ARE USED FOR GIVEN 1/0 CHANNEL.



MOON	"SYSTEM"	DISC	AYOUR	ľ
DUJI		n_{10}	レカ・ロロ :	,

	DOSM "SYSTEM" DISC LAYOUT	INC	REASING DISC
	SYSTEM LABEL/USER BUFFER SECTOR DISC RESIDENT BOOTSTRAP (2 Sectors) SYSTEM DIRECTORY		ADDRESS
	DISC MONITOR EXEC MODULES AND SUBROUTINES I/O DRIVERS	CORE RESIDENT SYSTEM PART 2	
	EQUIPMENT TABLE DEVICE REFERENCE TABLE INTERRUPT TABLE	CORE RESIDENT SYSTEM PART 3	
PROTECTED	DISC RESIDENT EXEC MODULES AND SUBROUTINES		
PROT	DISC RESIDENT I/O DRIVERS		
(HARDWARE P	DISC RESIDENT SYSTEM MAIN PROGRAMS AND THEIR SEGMENTS (JOBPR, LOADR, ASMB, FTN, ALGOL, etc.)		
	EXEC MODULE DOUBLET TABLE	CORE RES	
	DISC RESIDENT RELOCATABLE LIBRARY		
	BASE PAGE SECTION OF CORE RESIDENT SYSTEM (TRAP CELLS, CONSTANTS, COMMUNICATION, LINKAGE	CORE RESIDENT SYSTEM PART 1	√ T
ED)	SPECIAL SYSTEM TRACK		- -
PROTECTED)	USER LABEL/SYSTEM BUFFER SECTOR		
. RO.	USER DIRECTORY		4 - T
SOFTWARE P	USER FILES AND PROGRAMS		
SOFT	WORK AREA		
3	JOB BINARY AREA		,
	SPARE TRACKS (END OF DISC)		

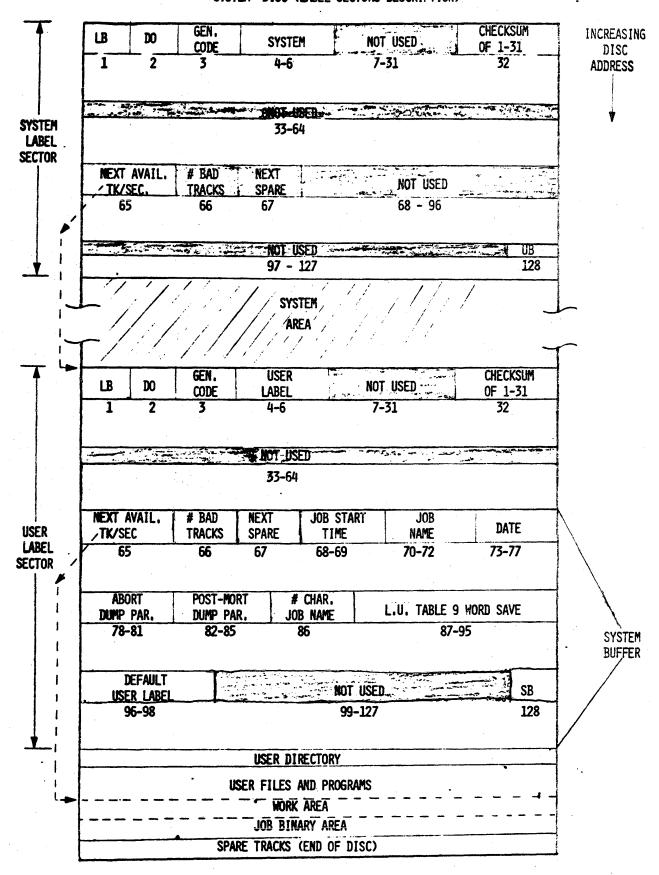
ESLIDE 11B]

T = STARTS ON TRACK BOUNDARY

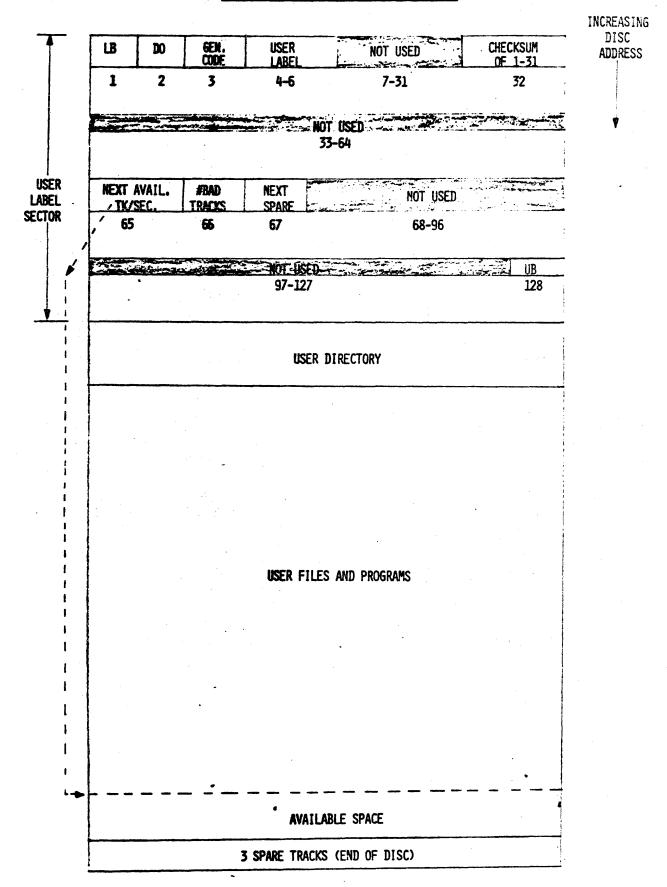
DOSM "USER" DISC LAYOUT

INCREASING DISC USER LABEL/BUFFER SECTOR ADDRESS USER DIRECTORY USER FILES AND PROGRAMS 3 SPARE TRACKS (END OF DISC)

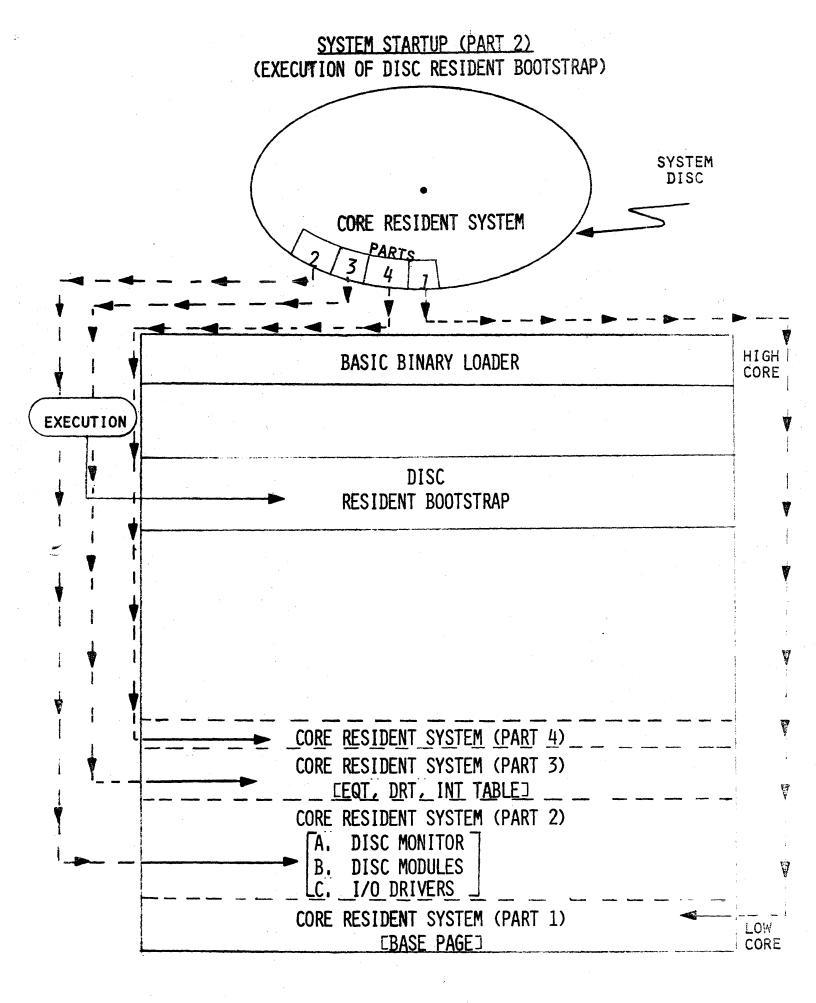
"SYSTEM" DISC (LABEL SECTORS DESCRIPTION)

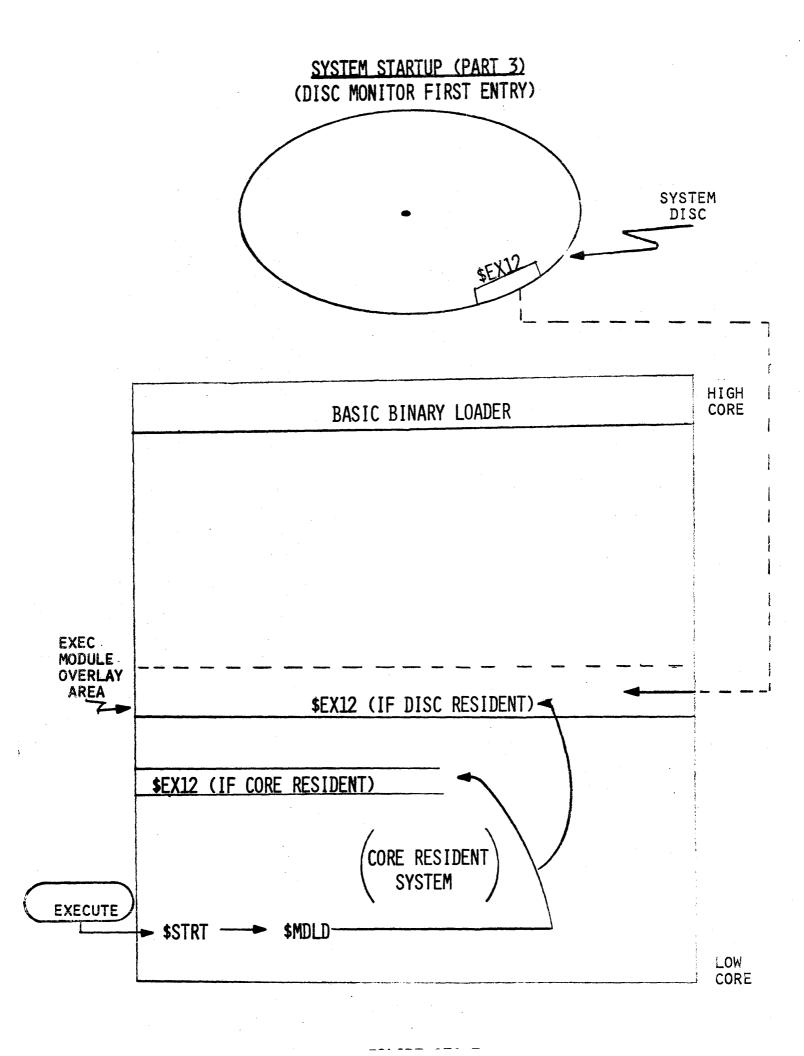


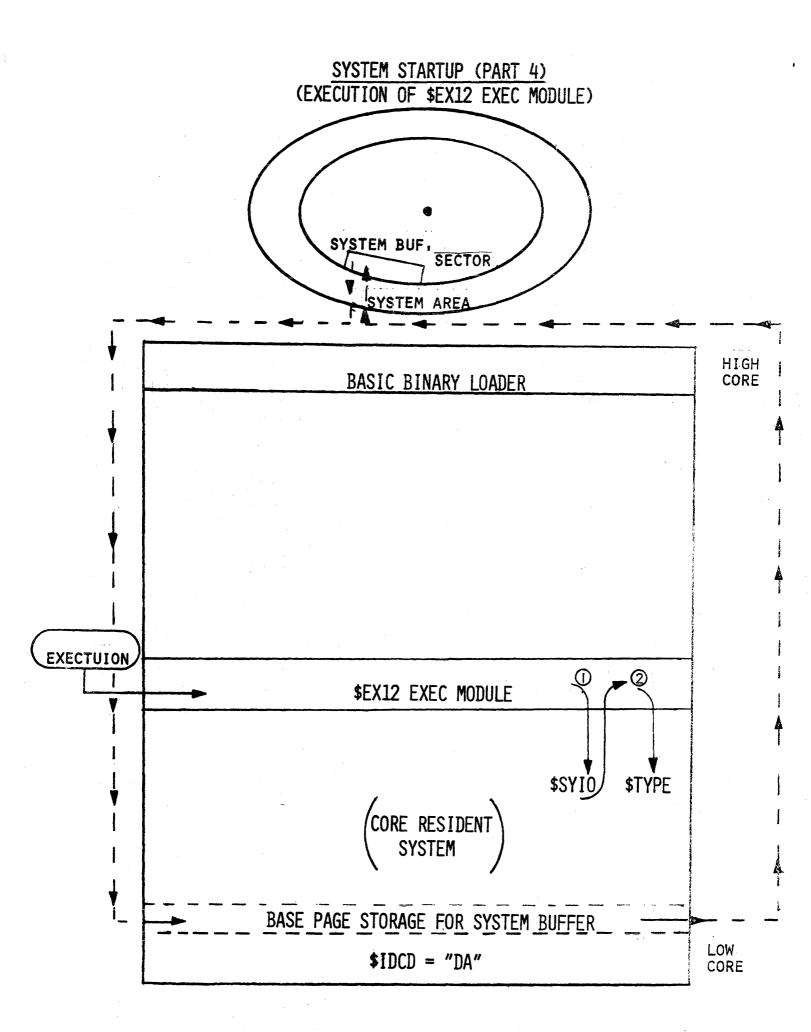
"ISER" DISC (LABEL SECTOR DESCRIPTION)



SYSTEM STARTUP (PART 1) (EXECUTION OF CONFIGURED BOOTSTRAP) SYSTEM DISC DISC RESIDENT BOOTSTRAP HIGH BASIC BINARY LOADER CORE DISC RESIDENT BOOTSTRAP SUPPLIED BOOTSTRAP AFTER ECUTION LOW **CONFIGURATION** CORE

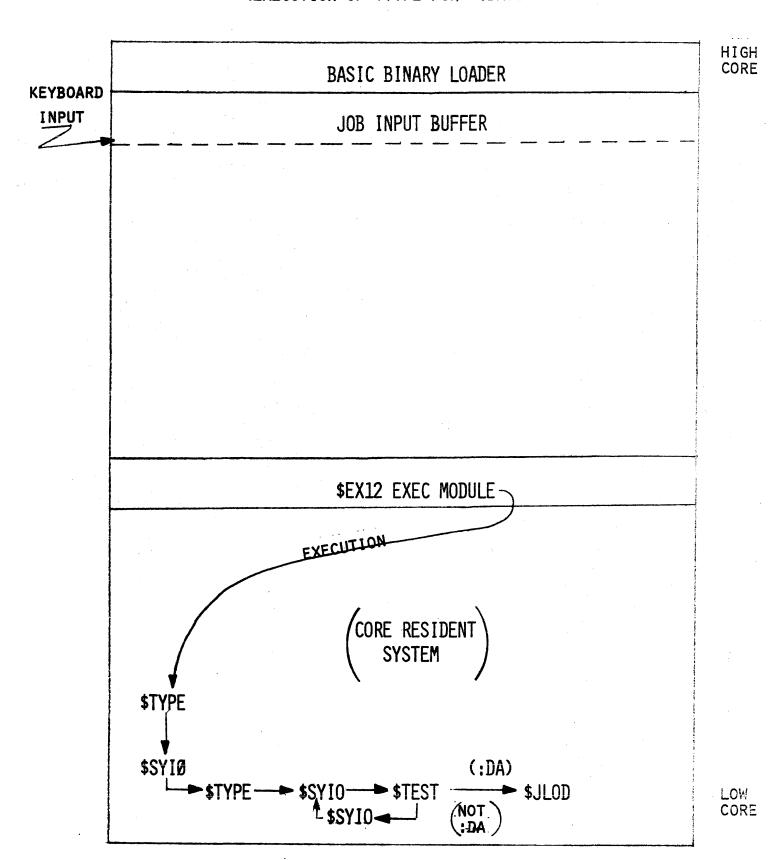




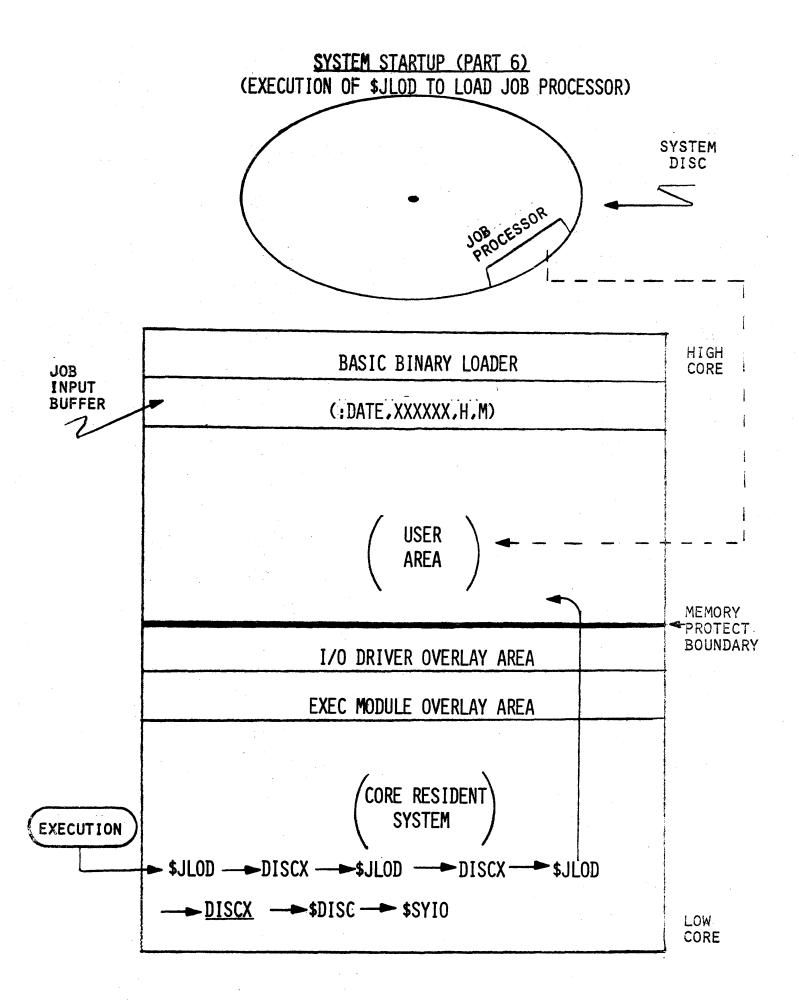


ESI IDF 13A 117

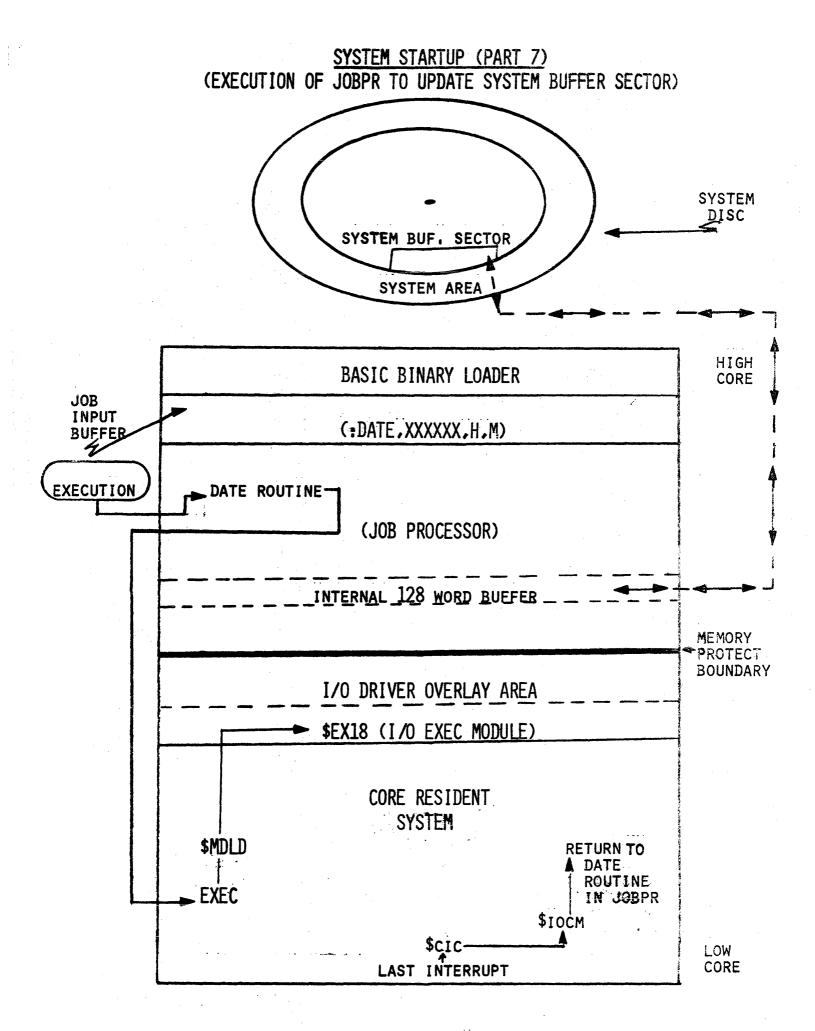
SYSTEM STARTUP (PART 5) (EXECUTION OF \$TYPE FOR ":DATE" INPUT)



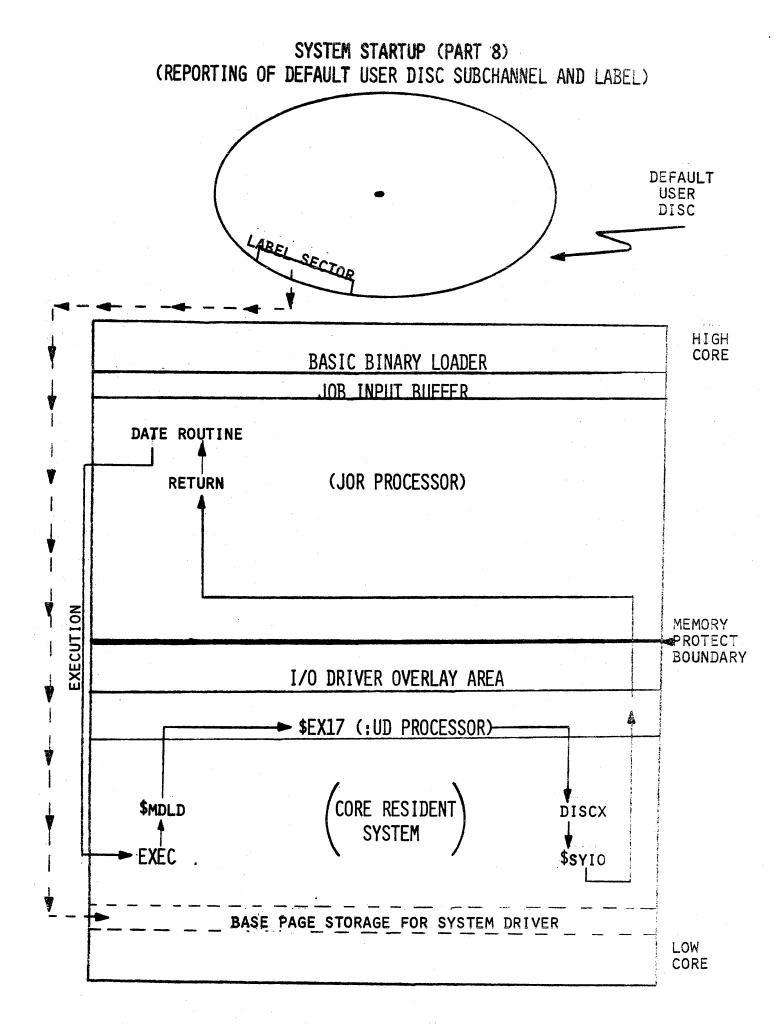
CSLIDE 13A.5]



ESLIDE 13A.6]

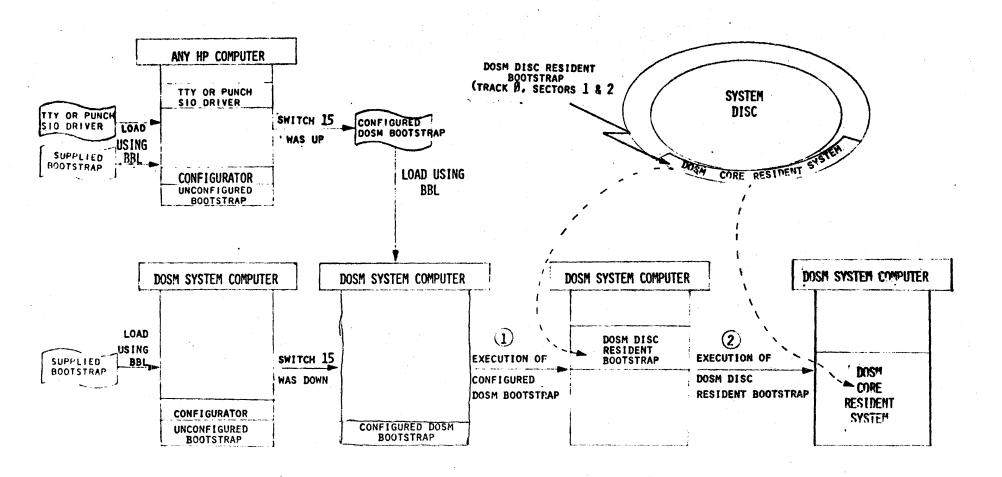


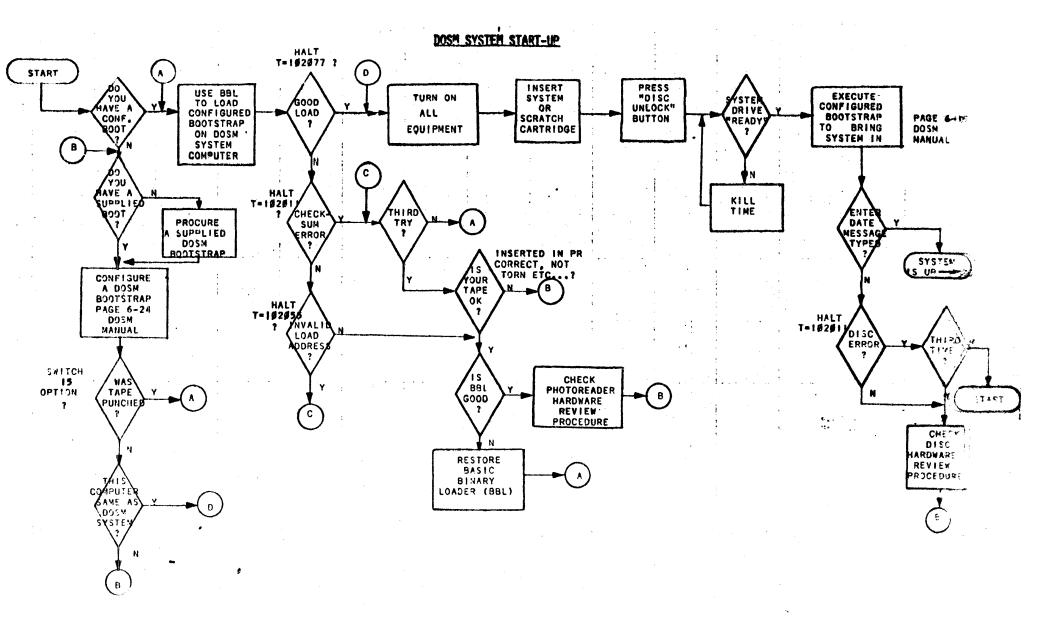
TOI THE 134 77



TSI TOF 13A.87

BOOTSTRAPPING DOSM UP FROM DISC





OFF DIRECTIVE

PURPOSE:

TO ABORT CURRENTLY EXECUTING USER PROGRAM OF SYSTEM OPERATION WITHOUT TERMINATING THE JOB.

FORMAT:

:OFF

NOTES:

- 1. RETURNS SYSTEM TO KEYBOARD MODE.
- 2. CAN BE USED TO TERMINATE UNDESIRED LISTS, EDITS, DISC-TO-DISC DUMPS, PROGRAM LOOPS, LOADER OPERATIONS, ASSEMBLIES, AND COMPILATIONS.
- 3. CANCELS ANY :DD, :AD, OR :PD DIRECTIVES, UNLESS A PROGRAM IS RUNNING, IN WHICH CASE A PENDING :AD IS EXECUTED.
- 4. MUST NEVER BE GIVEN DURING A PURGE (:PURGE DIRECTIVE) OR FOLLOWING /E IN AN EDIT LIST.

INITIALIZE DIRECTIVE

PURPOSE:

TO LABEL OR UNLABEL THE CURRENT USER DISC.

FORMAT:

: IN, LABEL

WHERE THE LABEL IS A SIX-CHARACTER NAME TO BE WRITTEN IN WORDS 4-6 OF THE LABEL SECTOR ON THE CURRENT USER DISC. A "*" IS ENTERED TO UNLABEL THE DISC. THE FIRST LETTER OF LABEL MUST NOT BE "CONTROL@".

NOTES:

1. IF THE CURRENT USER DISC IS ALREADY LABELED, DOSM PRINTS THE FOLLOWING MESSAGE:

LABEL XXXXXX (WHERE XXXXXXX IS EXISTING LABEL)

OK TO PURGE? THE OPERATOR THEN ANSWERS "YES" OR "NO".

- 2. : IN. * EXECUTION PURGES ALL FILES ON THE CURRENT USER DISC AS FOLLOWS BELOW:
 - A. LABEL PRESENCE CODE SET = \emptyset .
 - B. FIRST AVAILABLE TK/SEC SET TO START OF USER AREA (IF USER DISC) OR START OF SYSTEM DIRECTORY TRACK +1 (IF SYSTEM DISC).
 - c. SETS FIRST WORD IN DIRECTORY = \emptyset TO INDICATE END-OF-DIRECTORY.
 - D. * SET IN FIRST CHARACTER OF LABEL FIELD.
 - E. SETS SYSTEM GENERATION CODE AND PROPRIETARY CODE = TO THAT ON SYSTEM LABEL SECTOR.
 - GENERATES NEW CHECKSUM.

INITIALIZE DIRECTIVE - NOTES CONTINUED:

- 3. :IN.NEWLB purges unprotected SYSTEM and moves any user files down to low disc if the current user disc is labeled "SYSTEM" and is not hardware protected (i.e., it was created with :DD,X directive).
- 4. SYSTEM GENERATION CODE AND SYSTEM PROPRIETARY CODE ARE SET EQUAL TO THOSE IN THE CURRENT SYSTEM.

CHANGE USER DISC DIRECTIVE (PART 1)

PURPOSE:

TO CHANGE SUBCHANNEL ASSIGNMENT FOR THE CURRENT

USER DISC.

FORMAT:

:UD [, [LABEL] [, N]]

WHERE LABEL IS A SIX-CHARACTER LABEL OR

♥IF UNLABELED DISC.

AND N IS THE SUBCHANNEL NUMBER.

NOTES:

- 1. SIX BASIC FORMS ARE POSSIBLE (PART 2).
- 2. If the disc on subchannel #n has a <u>SYSTEM PROPRIETARY CODE</u> not equal to "DO", the assignment is still made and the system prints the following:

TSB | DIS€

- 3. IF THE DISC ON SUBCHANNEL #N HAS
 A SYSTEM GENERATION CODE NOT EQUAL
 TO THAT OF THE CURRENT SYSTEM, THE
 ASSIGNMENT IS STILL MADE AND THE SYSTEM
 PRINTS THE FOLLOWING:
 DISC GEN CODE XXXX NOT SYS GEN CODE YYYY ERR POSS
- 4. USER DISC SUBCHANNEL ASSIGNMENTS MADE
 BY THIS DIRECTIVE ARE ONLY TEMPROARY;
 THE USER DISC SUBCHANNEL ASSIGNMENT IS
 RESET TO THAT SPECIFIED DURING SYSTEM
 GENERATION AT THE END OF EACH JOB.
- 5. USED IMMEDIATELY FOLLOWING : DD (DISC DUMP)
 DIRECTIVE TO SPECIFY DESTINATION DISC.

CHANGE USER DISC DIRECTIVE (PART 2)

EXAMPLE	ACTION
:UD (without label or subchannel)	Interrogates the current user disc subchannel AND PRINTS ITS LABEL ON THE SYSTEM TELEPRINTER: SUBCHAN = n LBL = label (or UNLBL)
:UD,,n (no label)	IF n is Labeled, DOS-M PRINTS: LBL = label (OR UNLBL) No assignment is made.
:UD, label (NO SUBCHANNEL)	DOS-M SEARCHES FOR THE label, STARTING WITH THE HIGHEST NUMBER SUBCHANNEL (DETERMINED AT SYSTEM GENERATION). If label is found, DOS-M makes it the USER DISC AND PRINTS: SUBCHAN = n If label is not found, DOS-M PRINTS: DISC NOT ON SYS
:UD,label,n	If n is LABELED WITH THE SPECIFIED label, DOS-M ASSIGNS n AS THE USER DISC. If n is unlabeled or has a different label, DOS-M PRINTS: LBL = label (or UNLBL) OPERATOR CAN THEN REISSURE :UD, label, n WITH THE CORRECT LABEL.
:UD,*,n	IF n' IS UNLABELED, DOS-M ASSIGNS n AS THE USER DISC. IF n IS LABELED, DOS-M MAKES NO ASSIGNMENT AND PRINTS: LBL = Tabel
:UD,*	Assigns the Highest number unlabeled disc as the user disc and prints: SUBCHAN = n If there are no unlabeled disc, DOS-M prints: DISC NOT ON SYS

DISC-TO-DISC DUMP DIRECTIVE

PURPOSE: To DUMP ONTO ANOTHER SUBCHANNEL

- 1. AN ENTIRE DISC USING :DD
- 2. THE SYSTEM AREA (INCLUDING SYSTEM BUFFER) USING :DD.X.
- 3. ALL OR SPECIFIED FILES OF THE USER AREA (OPTIONALLY ASSIGNING SOME NEW FILE NAMES) USING

:DD.UC. FILE 1 [. (FILE A)], FILE 2[. (FILE B)],]

WHERE X SPECIFIES THE SYSTEM AREA

U SPECIFIES THE USER AREA

FILE 1, FILE 2, SPECIFY THE FILES TO BE

DUMPED

FILE A, FILE B, SPECIFY THE OPTIONAL NEW

NAMES FOR FILE 1, FILE 2,

NOTES:

- A. RENAMED FILES MAY BE INTERMIXED WITH UNCHANGED FILES IN 3. ABOVE.
- B. THE DESTINATION DISC MUST BE SPECIFIED BY THE :UD DIRECTIVE IMMEDIATELY FOLLOWING THE :DD DIRECTIVE. FOR :DD,:DD,X THE FOLLOWING :UD DIRECTIVE MUST BE :UD,*, where of is not the System Disc.
- C. WHEN THE DESTINATION DISC FOR A :DD,U IS A SYSTEM DISC (OTHER THAN CURRENT SYSTEM), THE USER FILES ARE DUMPED IN THE USER AREA FOLLOWING THE SYSTEM FILES.
- D. If files of the source disc will not completely fit on the destination disc, the system will transfer as many whole files as possible and print: TRAC # TOO BIG.

SYSTEM SEARCH DIRECTIVE (PART 1)

PURPOSE:

To specify a list of disc subchannels to be searched by system for file names other than the current user disc.

FORMATS:

:SS

ALL ACTIVE SUBCHANNELS ARE SEARCHED IN THE FOLLOWING ORDER:

- 1. CURRENT USER DISC SUBCHANNEL
- 2. HIGHEST ACTIVE SUBCHANNEL IN SYSTEM
- 3. Next Highest active subchannel in system

LOWEST ACTIVE SUBCHANNEL IN SYSTEM

:SS,N1,N2,N3,....

ALL ACTIVE SUBCHANNELS (WITHIN N1, N2, N3,...LIST)
ARE SEARCHED IN THE FOLLOWING ORDER:

- 1. CURRENT USER DISC SUBCHANNEL
- 2. Lowest numbered active subchannel specified in n1,n2,n3,...List.
- 3. NEXT LOWEST NUMBERED ACTIVE SUBCHANNEL SPECIFIED IN N1, N2, N3, ... LIST.

HIGHEST NUMBERED ACTIVE SUBCHANNEL SPECIFIED IN N1.N2.N3...LIST.

:\$\$,99

ONLY THE CURRENT USER DISC SUBCHANNEL IS SEARCHED. THIS IS THE DEFAULT CONDITION. EVERY JOB STARTS OUT IN THIS CONDITION.

SYSTEM SEARCH DIRECTIVE (PART 2)

NOTES:

- 1. This is an optional directive valid only if "YES" was response to ALLOW :SS? QUESTION DURING SYSTEM GENERATION.
- 2. THE :SS condition SET APPLIES TO ALL EXEC CALLS AND DIRECTIVES THAT REQUIRE A FILE SEARCH.
 - THE SUBCHANNEL CONTAINING THE FILE THAT INITIATED THE FILE SEARCH. THIS IS REPORTED BY SYSTEM EACH TIME IT CHANGES WITH TTY PRINTOUT, SUBCHAN = n

 IF THE JOB PROCESSOR IS IN CORE (I.E. NO OTHER USER PROGRAM EXECUTING).
 - 4. If search does not find the desired file, the Current User Disc Subchannel number is restored to its value before search.
 - 5. If search is interrupted before completion, the Current User Disc Subchannel number will be on whatever subchannel number the system was searching when interruption occurred.
 - 6. :LIST, U DIRECTIVE DOES NOT STOP ON DUPLICATE FILE NAMES, BUT CONTINUES SEARCHING AND PRINTING USER DIRECTORY. AT COMPLETION, THE CURRENT USER DISC SUBCHANNEL IS RESTORED TO NUMBER BEFORE THIS DIRECTIVE ENTERED.
 - 7. More than one :SS condition may be set during a JOB. Each one set remains in effect until a new one is entered or the JOB is ended.
 - 8. :SS conditions set are not followed by relocating LOADER (LOADR) or to disc dumps initiated by :DD directive.

Brought up System took took INPUT : DATE, XXXXXXXXXXX, H, M -System reports default User Dise Subchannel at → 0:DA,19.OCT.70,14,0 SUBCHAN=1 Label LBL=00000 ►:JOB, EXMP1 JOB EXMP1 19.0CT.70 TIME=0840 MIN. 13.4 SECS. · UD SUBCHAN=1 Declared entire Dise to Dise dump LBL=00000 Changed mind - bailed out of DD condition DD · 0 >:OFF ◀ - Declared System Area Only Disc dump @ ►:DD.X ◀ __ Declared fixed Disc as destination disc ->:UD,*,Ø 🗲 LBL=SYSTEM DISC GEN CODE 1013 NOT SYS GEN CODE 9000 ERR POSS RE-ENTER STATEMENT ON TTY. · UD - System still waiting for MISSING PARAMETER Destination RE-ENTER STATEMENT ON TTY. of DDX condition - Boiled out ->: OFF 4 6 - Changed Correct User Disc to Fixed Disc ->:UD SUBCHAN=1 LBL=00000 SYSTEM.0 DISC GEN CODE 1013 NOT SYS GEN CODE 9000 ERR POSS to see if assignment was made · UD - Checked SUBCHAN=0 LBL=SYSTEM DISC GEN CODE 1013 NOT SYS GEN CODE 9000 ERR POSS to unlabel the Fixed Dire ▶ : IN,* 🖛 - Entry DOS LABEL SYSTEM Told System to purge "System" label, Gen. Code OK TO PURGE? YES ▶ :UD - Now System has unlabeled fixed Disc SUBCHAN=0 UNLBL 9

```
UD, 9999991 - Reassign WER DISC
--: UD -- Checked to make sure assignment made
   SUBCHAN=1
   LBL=00000
- : DD.X - Declared System area only Disc dump
- : UD, *, 0 - Declared Destination Dize
->:UD
   SUBCHAN=0
                    checked Label on Subchannel # $ (7:xed disc)
   LBL=SYSTEM
- :UD,,0 💠
  LBL=SYSTEM
--- : UD
   SUBCHAN=0
   LBL=SYSTEM
                   - Incorrect Statement Entered
 →:LI,U
   MISSING PARAMETER
   RE-ENTER STATEMENT ON TTY.
                  ___ List User Directory
1 eU e I : -
   NAME TYPE SCTRS DISC ORG PROG LIMITS B.P. LIMITS ENTRY LIBR. P-BIT
                     NOTHING ON FIXED DIRC to be listed
   SUBCHAN=0
- : SS - Set System Search for all define subchannels
1 eU e I : 👡
   NAME TYPE SCTRS DISC ORG PROG LIMITS B.P. LIMITS ENTRY LIBR. P-BIT
   SUBCHAN=Ø
   SUBCHAN=1
   XREF UM 0013 T023 000 12000 14750 01002 01036 12000 14071
                T023 013
      SS 0001
   WEOT UM 0002
                T023 014 12000 12013
                                      01002 01003
                                                 12000 12013
 *: OFF - Brited out of long listing
 +: SS. 99 - Recet default System Search
 +: LI. U. 1 List User Directory
   NAME TYPE SCTRS DISC ORG PROG LIMITS B.P. LIMITS ENTRY LIBR. P-BIT
   SUBCHAN=1
   XREF UM 0013 T023 000 12000 14750 01002 01036 12000 14071
- *: OFF - Briled out
  SUBUHAN=1 ) - Note how Current user Dise is still I LBL=00000
→ :UD
```

ESLIDE 20B3

```
: UD
  SUBCHAN=1
  LBL=00000
                                 User Area only Dise Dump
                       Declared
 ∍:DD.U ◀
 🕨:UD, SYSTEM, Ø 🤜
  XREF
  EOT1
  WEOT
  XREFR
  DISCM
  EXECS
  DVRØ5
  DVR31
  LIBRY
  DVRØ2
  DVRØ1
  DVR22
  LODR
                                                  User File Nome
  JOBP
                                            Ezeh
  ASMBL
  ASMD
                                                   done
                        Transferrd
  ASM3
  ASM4
  ASM5
   FRTN
  FTN1
  FTN2
   FTN3
  FTN4
  ASM1
  ASM2
   SI01
  BASC1
  BOOT
  FTNH
  EOF
   FSPCE
  RWIND
  D.00S
   TSRTS
   TSRTR
   CLEAR
 >:UD
   SUBCHAN=Ø
  LBL=SYSTEM
  :LI,U,1 🗲
   NAME TYPE SCTRS DISC ORG PROG LIMITS
                                            B.P. LIMITS
                                                           ENTRY LIBR.
                                                                         P-BIT
   SUBCHAN=Ø
   XREF
         UM
             0013
                    T024 000 12000 14750
                                            01002 01036
                                                            12000 14071
                    TØ24 Ø13
   EOT1
         SS
             0001
   WEOT
         UΜ
             0002
                    T024 014 12000 12013
                                            01002 01003
                                                           12000 12013
                 - Bailed
                                     s be ded
* ABORT
   JOB ABORTED!
   END JOB EXMP1 RUN=0011 MIN. 52.2 SEC.
                                            EXEC=0000 MIN. 00.0 SEC.
```

OPERATIONAL DIFFERENCE SUMMARY (PART 1)

CONDITION	DOS	DOSM	
System Start-Up	Outputs the following: INPUT FR = FRESH; CO = CONTINUATION	Does not output this message. Outputs INPUT:DATE,XXXXXXXXXX,H,M (H and M are omitted if system does not have Time Base Generation)	
:OFF Directive	Does not exit. Must use :ABORT to terminate the current job.	New Directive to abort without terminating current job.	
:DD Directive	Does not exist. SDUMP program must be used to create backup copies on Mag. Tape	New Directive to perform disc to disc dumps. Backup copy may be put on cartridge disc.	
:SS Directive	Does not exist.	New Directive to enable multi-disc file searching.	
:IN Directive	Does not exist. Discs are not labeled.	New Directive to label or unlabel discs.	
:UD Directive	Does not exist.	New Directive to change current user disc.	
System Recognition of Operator Attention by outputting *	Following are valid entries at this time: :ABORT, :DN, :EQ, :LU, :TYPE, :UP	Following are valid entries at this time: :OFF, :PAUSE, :ABORT, :DN, :EQ, :LU, :TYPE, :UP	
:JOB Directive	Current time is always printed on the System Teleprinter and List device along with the job name and date. TBG is System requirement.	Current Time is only printed on the system Teleprinter and list device when Time Base Generator is in system. TBG is an option.	

OPERATIONAL DIFFERENCE SUMMARY (PART 2)

CONDITION	DOS	DOSM	
:EJOB Directive	Not Applicable	System resets :SS condition to be only standard user disc.	
	System condenses User file. Only one User File Area.	System condenses all user discs following :SS condition.	
	Not Applicable	User Disc subchannel assignment reset to stand- ard subchannel # unless standard is "NOT READY" or new cartridge has been inserted with different label.	
	Message is printed on System Tele- printer and standard List device with job name, execution and run times. TBG is a System Requirement.	Execution and Run times are not printed if the Time Base Generator is not in the system. TBG is optional.	
:PROG Directive	Not Applicable Only one user area in system.	File Search for program specified follows :SS condition. User files are searched first, then system files.	
:RUN Directive	Optional "time parameter" always used. TBG is System requirement.	"Time parameter" is ignored if Time Base Generator is not in system. TBG is optional.	
	Not Applicable. Only one user area in system.	File search for <u>User</u> program follows :SS condition.	

OPERATIONAL DIFFERENCE SUMMARY (PART 3)

CONDITION	DOS	DOSM		
:TRACKS DIRECTIVE	REQUIRES THAT THE OPERATOR INFORM SYSTEM OF THE FAULTY TRACKS ON A FRESH START-UP FOLLOWING THE DATE DIRECTIVE.	BECAUSE A RECORD IS MAINTAINED		
•	REPORTS TRACK NUMBERS THAT ARE FAULTY.	REPORTS TOTAL NUMBER OF TRACKS THAT HAVE BEEN RE- PLACED BY SPARES.		
:STORE DIRECTIVE	CHECKS USER AREA FOR DUPLICATE FILE NAMES.	CHECKS ALL ACTIVE SUBCHANNELS (ACCORDING TO :SS CONDITION) FOR DUPLICATE FILE NAME. STORE ACUALLY DONE ON CURRENT USER DISC.		
	ONE SECTOR = 64 WORDS	One Sector = 128 words		
:JFILE DIRECTIVE	Source file specified is in one user area.	Source file specified may BE ON ANY ACTIVE SUBCHANNEL (ACCORDING TO :SS CONDITION),		
:EDIT DIRECTIVE	Source file specified is in one user area.	Source file specified may be on any active subchannel (according to :SS condition).		
	UPDATED OR NEW SOURCE FILE IS STORED IN ONLY ONE USER AREA.	IF NEW FILE NAME IS SPECI- FIED, THIS FILE IS STORED ON SAME SUBCHANNEL AS OLD FILE.		
:PURGE DIRECTIVE	FILES SPECIFIED ARE ONLY IN ONE USER	FILES SPECIFIED MAY BE ON ANY ACTIVE SUBCHANNEL (ACCORDING TO :SS CONDITION). ALL ASSOCIATED USER DISCS ARE REPACKED FOR EFFICIENTY. USE :IN.* TO PURGE ALL USER FILES ON A GIVEN USER DISC.		

OPERATIONAL DIFFERENCE SUMMARY (PART 4)

CONDITION	DOS	DOSM		
:LIST DIRECTIVE	Dose NOT HAVE P-BIT FIELD FOR DIRECTORY LISTINGS.	HAS ALL FIELDS OF DOS WITH ADDITIONAL FIELD, P-BIT. ENTRY UNDER THIS FIELD WILL BE "T" TO INDICATE THAT THE ASSOCIATED FILE IS TEMPORARY AND WILL BE PURGED AT :EJOB IF NOT STORED WITH :STORE.		
	USER DIRECTORY IS ONLY ON ONE DISC.	USER DIRECTORY LISTING HAS SUBCHANNEL NUMBERS PRECEEDING USER FILES ON THAT SUBCHANNEL.		
	NOT APPLICABLE	CURRENT USER DISC SUBCHANNEL NUMBER IS RESTORED FOLLOWING :LIST,U.		
	Source file specified is on one user area.	Source file specified may be on any active subchannel (according to :SS condition).		
:DUMP DIRECTIVE	USER FILES ONLY ON ONE DISC.	FILE SPECIFIED MAY BE ON ANY ACTIVE SUBCHANNEL (ACCORDING TO :SS CONDITION)		
:SA or :SO DIRECTIVES	CALLED DISC DUMP	CALLED SECTOR DUMP TO DISTINGUISH FROM :DD (DISC DUMP).		
	DUMP IS TO SYSTEM TELEPRINTER (LU # 1)	Dump is to standard list device (LU #6).		
	ANY PORTION OF DISC(S) ON SYSTEM MAY BE DUMPED.	Dump any portion of Current User disc even if user area is on System Disc.		
:DATE DIRECTIVE	HOURS AND MINUTES ENTRIES ARE ALWAYS MEANINGFUL. TBG IS SYSTEM REQUIREMENT	IF TIME BASE GENERATOR IS NOT PRESENT IN SYSTEM, HOURS AND MINUTES ARE SET TO ZERO.		
	•			

CHANGE USER DISC EXEC CALL (GENERAL FORMAT)

PURPOSE

To change the subchannel assignment for the user disc.

ASSEMBLY LANGUAGE

```
EXT EXEC
     JSB EXEC
                                 (TRANSFER CONTROL TO DOS-M)
     DEF *+3 (or 4)
                                 (POINT OF RETURN FROM DOS-M)
     DEF RCODE
                                 (REQUEST CODE)
     DEF LABEL
                                 (DISC LABEL)
     DEF SUBCH
                                 (DISC SUBCHANNEL; OPTIONAL)
     RETURN POINT
RCODE DEC 23
                                 (REQUEST CODE = 23)
LABEL ASC 3, xxxxx
                                 (LABEL = \times \times \times \times \times)
SUBCH DEC (Ø to 7)
```

FORTRAN

```
IRCDE = 23
DIMENSION LABEL (3)
LABEL (1) = ××
LABEL (2) = ××
LABEL (3) = ××
ICHNL = M (Ø THROUGH 7)
CALL EXEC (IRCDE, LABEL, ICHNL)
```

CHANGE USER DISC EXEC CALL -- FORM # 1 (LABEL AND SUBCHANNEL SPECIFIED)

CALLING SEQUENCE:

JSB EXEC

DEF *+4

DEF RCODE

DEF LABEL

DEF SUBCH

(RETURN POINT)

TRANSFER CONTROL TO EXEC

DEFINE RETURN POINT

DEFINE REQUEST CODE LOCATION

DEFINE LABEL LOCATION

DEFINE SUBCHANNEL LOCATION

RCODE DEC 23

LABEL ASC 3,×××××

SUBCH DEC N

23 FOR REQUEST CODE

6 CHARACTER DISC LABEL OR "*"

 $N = \emptyset - 7$ FOR SUBCHANNEL #

SYSTEM ACTION	OPERATOR ACTION
CHECKS IF SUBCHANNEL N IS LABELED AS SPECIFIED IN CALL (LABEL NAME OR "*")	None Required
MATCH - MAKES ASSIGNMENT AND RETURNS	None Required
No Match - Prints Message: LBL = (Label name found on subchannel N) or UNLBL if "*" ××××× SUSP	1. If correctly labeled disc on hand: MOUNT IN DRIVE AND "READY" DRIVE. Then enter :GO for system to EXECUTE AT START OF EXEC CALL. OR
WHERE XXXXX IS NAME OF EXECUTING PROGRAM.	2. If no properly Labeled DISC ON HAND:
EXECUTING FROMAIN	ENTER: :ABORT OR :OFF

(ONLY LABEL SPECIFIED)

CALLING SEQUENCE:

JSB EXEC

DEF *+3

DEF RCODE

DEF LABEL

(RETURN POINT)

TRANSFER CONTROL TO EXEC

DEFINE RETURN POINT

DEFINE REQUEST CODE LOCATION

DEFINE LABEL LOCATION

RCODE DEC 23

LABEL ASC 3, xxxxx

23 FOR REQUEST CODE

6 CHARACTER LABEL OR "*"

SYSTEM ACTION —	OPERATOR ACTION
SEARCHES FOR LABEL OR "*" DISC STARTING WITH THE HIGHEST SUBCHANNEL NUMBER.	None Required
MATCH - MAKES ASSIGNMENT AND RETURNS	None Required
No Match - Prints Message: DISC NOT ON SYST ××××× SUSP Where ×××× is name of executing program.	1. If properly labeled disc on hand: MOUNT IN DRIVE AND "READY" DRIVE. Then enter: GO for system to EXECUTE AT START OF EXEC CALL. OR 2. If no appropriately labeled disc ON HAND: ENTER: :ABORT or: OFF

DOS/DOSM GENERAL PURPOSE EXEC CALLS WITH NEGATIVE REQUEST CODES

REQUEST CODE	FUNCTION	CALLING SEQUENCE
-19	BASE PAGE STORE (STA B.I)	LDA "Value to store" LDB "Destination Address" JSB EXEC DEF *+2 DEF RCODE (RETURN WITH B = FORMER VALUE +1)
		RCODE DEC - 19
. -2 0	To LOAD AND START EXECUTION OF A PROGRAM WHOSE DIRECTORY ENTRY IS IN LOCATIONS 141-153 OCTAL	STORE DIRECTORY ENTRY OF DESIRED PROGRAM IN LOCATIONS 141-153B JSB EXEC DEF *+2 DEF RCODE (RETURN) RCODE DEC - 20
-21	TO INITIALIZE TBG (IF IN SYSTEM) FOR .1 SECOND TIMED INTERRUPTS	JSB EXEC DEF *+2 DEF RCODE (RETURN) RCODE DEC - 21
-22	To execute an I/O Instruction	LDA "1/0 INSTRUCTION" JSB EXEC DEF *+2 DEF RCODE (RETURN) RCODE DEC - 22

DOSM DISC I/O WITH EXEC CALLS

(Ansolute Disc Addressing)

GENERAL CALLING SEQUENCE:

JSB EXEC (TRANSFER TO EXEC)

DEF RTN (DEFINE RETURN ADDRESS)

DEF RCODE (SEE BELOW)

DEF CNTLW (SEE BELOW)

DEF BUFFR (DEFINE BUFFER ADDRESS)

DEF BUFFL (DEFINE BUFFER LENGTH)

DEF TRCK (DEFINE TRACK #)

DEF SECT (DEFINE SECTOR #)

RTN (RETURN POINT)

RCODE	CNTLW	DISC AREA ADDRESSED
+1 (READ) +2 (WRITE)	2	"WORK AREA" ON SYSTEM DISC ONLY. SYSTEM CHECKS FOR LEGALITY OF TRCK/SECT IN CALL.
	2	"ANY AREA" ON <u>SYSTEM DISC</u> . SYSTEM DOES NOT CHECK FOR LEGALITY OF TRCK/SECT IN CALL.
-1 (READ) -2 (WRITE)	3	"ANY AREA" ON <u>CURRENT USER DISC</u> . SYSTEM DOES NOT CHECK FOR LEGALITY OF TRCK/SECT IN CALL.
	-3	"ANY AREA" ON <u>CURRENT JOB FILE</u> (<u>JFILE</u>) DISC. SYSTEM DOES NOT CHECK FOR LEGALITY OF TRCK/SECT IN CALL.

NOTE: SYSTEM WILL HALT (WITH T-REG. =102031 OCTAL)

IF DISC PROTECT OVERRIDE SWITCH IS "OFF" (DOWN)

AND REQUEST MADE TO WRITE ON A SECTOR THAN IS

FLAGGED PROTECTED (PCI=1).

BINARY TAPES NEEDED FOR SYSTEM GENERATION (PART 1)

PROGRAM(S)	# TAPES	COMMENTS	
SYSTEM GENERATOR	1	OPERATES IN SIO ENVIRONMENT, THEREFORE THE FOLLOWING SIO DRIVERS MAY BE NEEDED: TELETYPE, PHOTOREADER, PUNCH (IF SIO DUMP TO BE USED), AND MAGNETIC TAPE. GENERATOR CONTAINS DISC I/O DRIVER INTERNAL TO ITSELF, THEREFORE, NO SIO DISC DRIVER NEEDED.	
DISC MONITOR (CORE RESIDENT SYSTEM)	1	ALWAYS MADE CORE RESIDENT BY GENERATOR. GOOD PRACTICE TO LOAD AS FIRST PROGRAM FOR SYSTEM COMPATABILITY BETWEEN PROGRAMS LOADED ON OTHER SYSTEMS.	
EXECUTIVE MODULES AND SUBROUTINES	1	Must be included in System Generation. Contains \$EXØ1 - \$EXZØ EXEC modules and Subroutines \$LBL. \$SRCH. \$ADDR. ASCII. DUMRX. ALL EXEC modules are program Type 1 (System Disc Resident). Buy may be made System Core	
		RESIDENT DURING GENERATION (PROGRAM TYPE 0). CAUTION: If CERTAIN EXEC MODULES ARE MADE SYSTEM CORE RESIDENT THEIR ASSOCIATED SUBROUTINES MUST ALSO BE DECLARED CORE RESIDENT.	
I/O DRIVERS	1 per Driver	DVR31 (IOMEC DISC Driver) must always be included. It is declared program type Ø (System Core Resident) and must not be redeclared.	
		DVR05 ONE OF THESE DRIVERS MUST BE INCLUDED. BOTH ARE DVR00 DECLARED PROGRAM TYPE Ø (SYSTEM CORE RESIDENT). THE ONE TO BE USED AS SYSTEM TELETYPE MUST NOT BE REDECLARED AS DISC RESIDNET. DVR05 IS SHORTED IN CORE REQUIREMENTS.	
		ALL OTHER DRIVERS ARE DECLARED PROGRAM TYPE 4 (DISC RESIDENT I/O DRIVER) AND MAY BE REDECLARED PROGRAM TYPE 0 IF DESIRED.	
JOB PROCESSOR	1	Must always be included in Generation. Must always be Disc Resident.	
RELOCATING LOADER	1	Does not have to be included in System Generation, but if not included no programs could be relocated into core image absolute form by the system that is generated. Declared Program Type 3 (User Main) and may not be made Core Resident. Must always be Disc Resident.	

BINARY TAPES NEEDED FOR SYSTEM GENERATION (PART 2)

PROGRAM(S)	# TAPES	COMMENTS
EXTENDED ASSEMBLER	7	Does not have to be included in System Generation. One tape is the Main Program (Type 3) and six tapes are segments (Program Type 5). The Main Program (ASMB) must be loaded prior to its segments. Must always be Disc Resident.
HP BASIC FORTRAN COMPELER	5	Does not have to be included in System Generation. One tape is the Main Program (Type 3) and four tapes are segments (Program Type 5). The Main Program (FTN) must be loaded prior to its segments. Must always be Disc Resident.
HP ALGOL COMPILER	2	Does not have to be included in System Generation. One tape is the Main Program (Type 3) and one small tape is the only segment (Program Type 5). The Main Program (ALGOL) must be loaded prior to the segment. Must always be Disc Resident. Requires 16K minimum core.
HP FORTRAN IV COMPILER	19	Does not have to be included in System Generation. One tape is the Main Program (Type 3) and 18 other tapes are its segments (Program Type 5). The Main Program (FTN4) must be Loaded prior to the 18 segments. MUST always be Disc Resident.
CROSS REFERENCE TABLE GENERATOR	1	Program Type 3 (User Disc Resident Main). Must be Disc Resident.
LIBRARIES	5	THE LIBRARIES INCLUDED DURING SYSTEM GENERATION WILL DEPEND ON THE PARTICULAR SYSTEM THAT IS BEING GENERATED AND WILL VARY ACCORDINGLY. FACTORS THAT WILL HELP DETERMINE ARE: 1. IS EAU TO BE USED. 2. IS FORTRAN IV COMPILER TO BE INCORPORATED INTO SYSTEM. 3. IS PLOTTING EQUIPMENT TO BE USED.
ANY USER PROGRAMS TO BE MADE A PERMANENT PART OF SYSTEM	?	SAME CONVENTIONS MUST BE FOLLOWED IN SEGMENTATION. USER MAIN MUST BE LOADED PRIOR TO SEGMENTS ETC. LIBRARY PROGRAMS MUST BE DECLARED TYPE 6 OR 7.

NOTE: IF THE FORTRAN IV LIBRARY IS TO BE INCLUDED IN AN 8K SYSTEM, CERTAIN RULES MUST BE FOLLOWED:

- 1. THE SYSTEM MUST BE GENERATED WITHOUT ANY COMPILERS OR AN ASSEMBLER.
- 2. A MAGNETIC TAPE SIO DRIVER CANNOT BE USED WITH DSGEN.
- 3. THE COMPILERS AND ASSEMBLER MUST BE LOADED INTO THE SYSTEM DURING OPERATION (USING THE LOADER).

DOSM GENERAL CORE LAYOUT

17777	The same of the sa	→ PROTECT
17700>	PAPER TAPE LOADER (BBL)	ENABLE AREA
-44 17634 -	JOB INPUT BUFFER (36 DECIMAL WORDS)	a facilitation a-gillacian
17303	DISC RESIDENT USER PROGRAM AREA	
	(MAIN AND SEGMENTS)	Confirm Teachers Confirm Confi
MEMORY PROTECT	6620USER COMMON AREA(OPTIONAL)	MEMORY PROTECT
BOUNDARY	DVK 01 314 DISC RESIDENT I/O DRIVEROVERLAY AREA(OPTIONAL)	BOUNDARY
6304	DISC RESIDENT EXEC MODULE OVERLAY AREA(OPTIONAL)	
5 5 74	SER EXEC MODULE TABLE (2 WORDS/DISC RESIDENT EXEC MODULE)	STO Exer mode
5516	INTERRUPT TABLE (I WORD/CHANNEL FORM 6 TO HIGHEST)	17 12 THE OFFICE
55(0	DEVICE REFERENCE TABLE (1 WORD/ENTRY)	alphanes of a second
	EQUIPMENT TABLE (17 WORDS/ENTRY) The disc.	
54 & 5 (254	CORE RESIDENT EXEC MODULES AND AND AND I/O DRIVERS	
41512 2515) 1434	CORE RESIDENT OF DOS-SUPERVISOR DISCM	2000
702	USER B.P. LINKAGE	Hooling
532	SYSTEM B.P. LINKAGE	Koundary
40	SYSTEM B.P. COMMUNICATION AREA (CONSTANTS AND STORAGE)	
4	I/O INTERRUPT LOCATIONS	

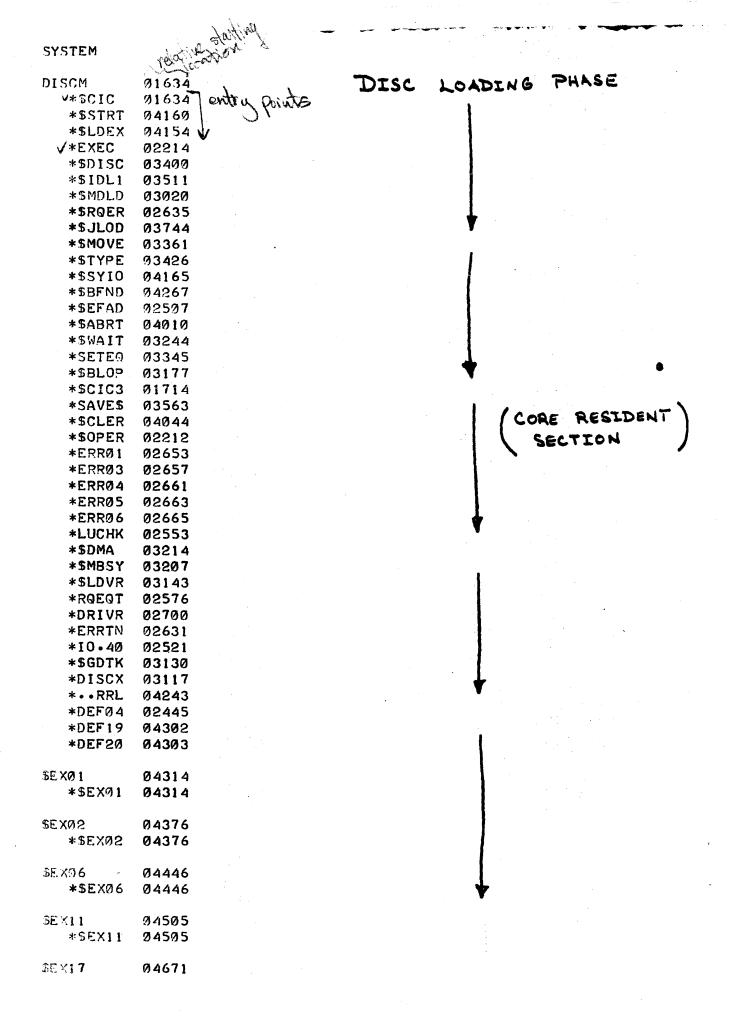
SYSTEM SOFTWARE SIZE BREAKDOWN ("A" VERSIONS)

PROGRAM NAME	LENGTH (OCTAL)	LENGTH (DECIMAL)	EXTERNAL ROUTINES
DISCM	2515	1357	
\$EXØ1	62	50	\$ADDR
\$EXØ2	50	40	\$ADDR
\$EXØ3	35	29	
\$EXØ4	315	205	ASCII
\$EXØ5	156	110	\$SRCH
\$EXØ6	37	31	\$ADDR, \$SRCH
\$EXØ7	157	111	\$ADDR
\$EXØ8	143	99	\$ADDR
\$EXØ9	261	177	ASCII
\$EX10	156	110	4000
\$EX11	164	116	\$SRCH
\$EX12	172	122	*****
\$EX13	342	226	ASCII
\$EX14	360	240	ASCII
\$EX15	272	186	ASCII
\$EX16	133	91	#1 D1
\$EX17	373	251	\$LBL
✓\$EX18 \$EX19	510 320	328 208	\$LBL
\$EX2Ø	306	198	ASCII
\$LBL	73	59	
\$LDL \$SRCH	304	196	
\$ADDR	15	130	
ASCII	72	58	
DIMRX	64	52	
DVRØØ they	Color Land		
DVR00 43	Jeode 553	363	
DAKOT & COLOR	314	204	
שאאע	202	130	
DVRØ5	250	168	
DVR10	135	93 343	
DVR12 DVR15	527 325	213	
DAKT2	634	412	
DVR23	566 197	374	•
DVR3Ø	252	170	
VDVR31 Disc	501	321	
J JOBPR	19463	4403	•
•	7070	7010	,
LOADR	7932	3610	

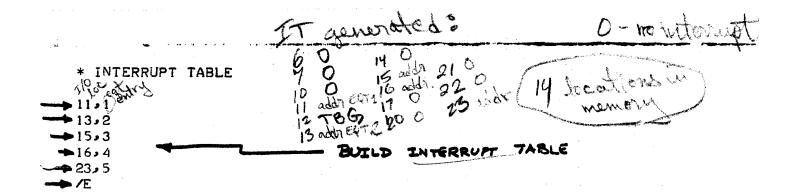
DOSM SYSTEM GENERATION EXAMPLE ("A" VERISION TAPES USED)

		•
	SYS GEN CODE? 9000 written in label field of the (decimal #) System disc for ident.	
-	SYS DISC CHNL? select code of (octal 7)	
Plan	# SECTORS/TRACK? \12 for 2970 Take conditions	
	sys disc size? # tracks	
	# DRIVES?	
	FIRST SYSTEM TRACK?	•
	FIRST SYSTEM SECTOR?	SULSE
	SYS DISC SUBCHNL?	Muse
-	USER DISC SUBCHNL?	
	TIME BASE GEN CHNL? Type of TRG is not pre	eent
	IS 2114? → NO	
	LWA MEM? last word of available core memory - basic bestarts:	m 37700
-	ALLOW: SS?	
	PRGM INPT? (type of 1st input unit for resocatable gray, modul	TY - teletype PT - papent pe
-	PRGM INPT? Type of 1st input unit for relocatable from module LIBR INPT? PT LIBR INPT? Type of optional input unit for Fire PT PT PT PT PAGE Is gray i your place	
	PRAM INPT? & type of input that for parameters in Empire plan	se [PTOTY]

*EOT *EOT *EOT *EOT *EOT *EOT 00 pram input 10 library input *EOT *EOT *EOT *EOT *EOT PROGRAM INPUT *EOT imput all proje to be made permanent part of DOS M (must input main before segments) *EOT NO UNDEF EXTS ENTER PROG PARAMETERS Status Disc Work Track 🗫 SEXØ1 🤊 🗗 Limits System file name search for file read writer
I'ms Processor
I'm nation processor
Bythrador which chack PARAMETER INPO ▶\$EXØ2•Ø **▶**\$EX06,0 >SEX11.0 INPUT PHASE (From TY in This e) ▶SEX18•0 54DDR.0 5LBL. 0 Service rowhite for babel checking Search system 1 SSRCH • Ø Wen directory E # of system linkages required in base page (130 min) # SYSTEM LINKS? 177 # of my lingages in B.P. (320 mm #) # USER LINKS? **→** 42/3



```
LOADING PHASE (CON'T)
       *$EX17
                04671
                05264
    SEX18
       *$EX18
                05264
    SADDR
                Ø5774
       *$ADDR
                05774
    $SRCH
                06011
       *$SRCH
                06011
       *SCMPR
                06266
    SLBL
                06315
       *LBLIO
                06354
       *ISLBL
                06336
       *LBLMV
                06330
       *CHSUM
                06315
       *MESSG
                06372
   DVRØ5
                06410
       *I.05
                06410
       *C.05
                96464
   DVR31
                96669
       *I • 31
               96669
       *C • 31
                06743
   * EQUIPMENT TABLE ENTRY
   11. DVRØSOR teleprivater
                                 TBG
  ≈13.DVRØ1 photoreaden
DO DVR31 . R. D JOMEC DISC CONS DISC CHULL
                 . Punch changed required
- 16. DVRØ2
 🗫 22, DVR22, D
                 3030 mag tape 0
    * DEVICE REFERENCE TABLE
                     system teleprinter
     1 = EQT #?
  ≥ 1) entry in eqt table
                     HUN male storage (ICMEC disc)
    2 = EQT #?
CERTIFICATION 3
                      System mass storage
     3 = EOT #?
                                            - BULLD DRT TABLE
                     Standard punch device
     4 = EOT #?
                     Standard input device (photor pater)
     5 = EQT #?
                      Handard List Lewice (Helepilden)
     6 = EQT #?
                      mag tope
     7 = EQT #?
     8 = EQT #?
 -> /€
```



EXEC SUPERVISOR MODULES

VISOR N	ODULES
07567	
Ø7567·	
07567	Main.
07567	entry ot.
10104	Subvoiline
10104	
10110	
07567	
07567	
97567	
07567	
Ø7567	•
07567	
07567	
	07567 07567 07567 07567 10104 10110 07567 07567 07567 07567

*\$EX09 07567 ASCII 10050 *CNDEC 10050 *CNOCT 10054 \$EX10 07567 *\$EX10 07567

SEX12 07567 *SEX12 07567

\$EX14 07567 *\$EX14 07567 ASCII 10147 *CNDEC 10147 *CNOCT 10153

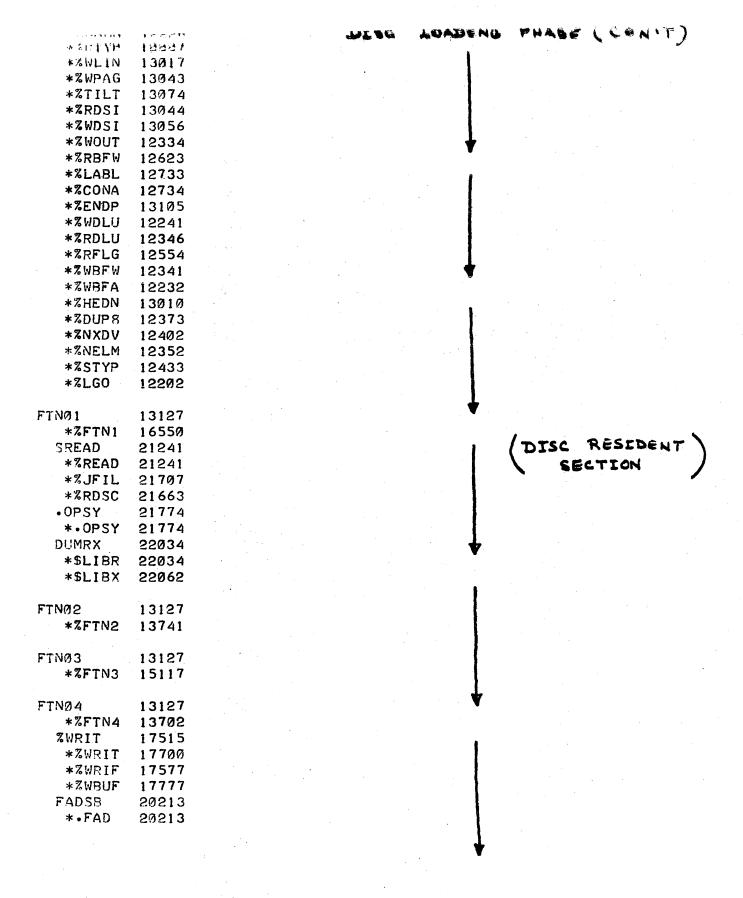
\$EX15 07567 *\$EX15 07567 ASCII 10061 *CNDEC 10061 *CNOCT 10065 DISC LOADING PHASE (CON'T)

DISC RESIDENT

```
SEX16
            07567
                                  DISC
                                          LOADING PHASE (CON'T)
   *$EX16
            Ø7567
$EX19
            07567
            07567
   *SEX19
            07567
$EX20
   *$EX20
            97567
  ASCII
            10075
   *CNDEC
            10075
   *CNOCT
            10101
I/O DRIVER MODULES
DVRØ1
            10241
   *I.Ø1
            10241
   *C.01
            10313
DVROS
            10241
   *1.02
            10241
                                                        DISC RESIDENT
   *C.02
            10320
DVR22
            10241
   *I.22
            10241
   *C . 22
            11001
                   hast addn +1 of supervisor
          11075
LWA SYS
                  1st who was pog area
FWA USER?
12000
USER SYSTEM PROGRAMS
LOADR
            12000
   *LOADR
            12000
JOBPR
            12000
   *J0BPR 12000
ASMB
            12000
   *ASMB
            16522
    *?ASCN
            13700
    *?ASMB
            12554
    *?BNCN
            14510
    *?BPKU
            15326
    *?CHOP
            12646
    *?CHPI
            15610
    *?DCOD
            15616
    *?ENDS
            15230
    *?ERPR
            15150
```

```
*?GETC
         15654
                                             LOADING PHASE (CON'T)
                                    DISC
*?MOVE
         13437
*?MSYM
         14775
*?RLUN
         16375
*?AFLG
         16430
*?LSTL
         14717
*?LUNI
         16436
*?RFLG
         16425
*?7.
         16446
*?ASM1
         13371
*?LABE
         13407
*?OKOL
         15307
*?ORRP
         14603
*?PNLE
         16443
*?SETM
         15674
*?SUP
         15393
*?LPER
         15306
*?PERL
         15271
*?LOUT
         15336
*?LTFL
         15275
*?DRFL
         16433
*?LTSA
         15560
*?LTSB
         15561
*?ORGS
         15301
*?CNTR
         15370
*?TSTR
         16434
*?ASII
         16452
*?ICSA
         15146
                                                              RESIDENT
*?FLGS
         16422
                                                             SECTION
*?BFLG
         16423
*?LFLG
         16424
*?TFLG
         16426
*?X
         16445
*?MESX
         12505
*?ASCI
         16451
*?LINC
         15110
*?LINS
         14765
*?LIST
         14653
*?LUNP
         16440
*?OPLK
         12600
*?OPER
         15649
*?PKUP
         15321
*?PLIT
         15406
*?PNCH
         13632
*?PRNT
         15033
*?RSTA
         13105
*?LWA
         16444
*?RDSC
         16401
*?WEOF
         16021
*?WRIF
         16102
*?LGFL
         16432
*?SEGM
         12541
*?SYMK
         13506
*?V
         15633
```

```
* : ARTL
            15472
   *?LST
            15274
                                           LOADING PHASE (CON'T)
   *?PLIN
            16435
   *?PCOM
            15112
   *?SECT
            16420
            12443
   *?NEAU
   *?HA38
            15347
   *?XRFI
            12540
ASMBD
            17120
   *ASMBD
            17442
            17120
ASMB1
   *ASMB1
            17366
   *?LITI
            20030
   *?CMQ
            17560
   *?INSR
            17726
   *?HA3Z
            17527
   *?ENP
            17662
            17645
   *?EXP
ASMB2
            17120
   *ASMB2
            17351
   *?ART
            20021
   *?BREC
            17475
   *?LKLI
            20535
   *?SKPR
            17441
                                                          DISC
                                                                  RESIDENT
   *?SPCR
            17444
ASMB3
            17120
   *ASMB3
            17630
ASMB4
            17120
   *ASMB4
            17366
   *?INS?
            17541
ASMB5
            17120
   *ASMB5
            17351
FTN
            12000
   *%WLIC
            13042
   *%FTNO
            12000
   *ZWPRN
            12735
   *%ERRR
            12701
   *%RDIS
            12557
   *%WDIS
            12244
   *%SEGN
            12224
   *%WTRA
            12236
   *%WSEC
            12237
   *%RTRA
            12347
   *%RSEC
            12350
   *%RBFA
            12352
   *%LUNO
            12203
   *%LUNI
            12204
```



```
*.FSB
          20222
OPSY
          20363
 * • OPSY
          20363
·FLUN
          20423
 *.FLUN
          20423
·PACK
          20444
 * • PACK
          20444
          20560
DUMRX
 *$LIBR
          20560
 *SLIBX
          20606
• ZRLB
          20644
 * • ZRLB
          20644
DLDST
          20705
 * . DLD
          20705
 * · DST
          20715
```

*SYSTEM STORED ON DISC

FORMATTING USER DISCS OR CARTRIDGES

PURPOSE: To format a USER DISC or CARTRIDGE ANYTIME A NEW DISC IS ADDED OR AN OLD SYSTEM DISC IS TO BE REUSED AS A USER DISC.

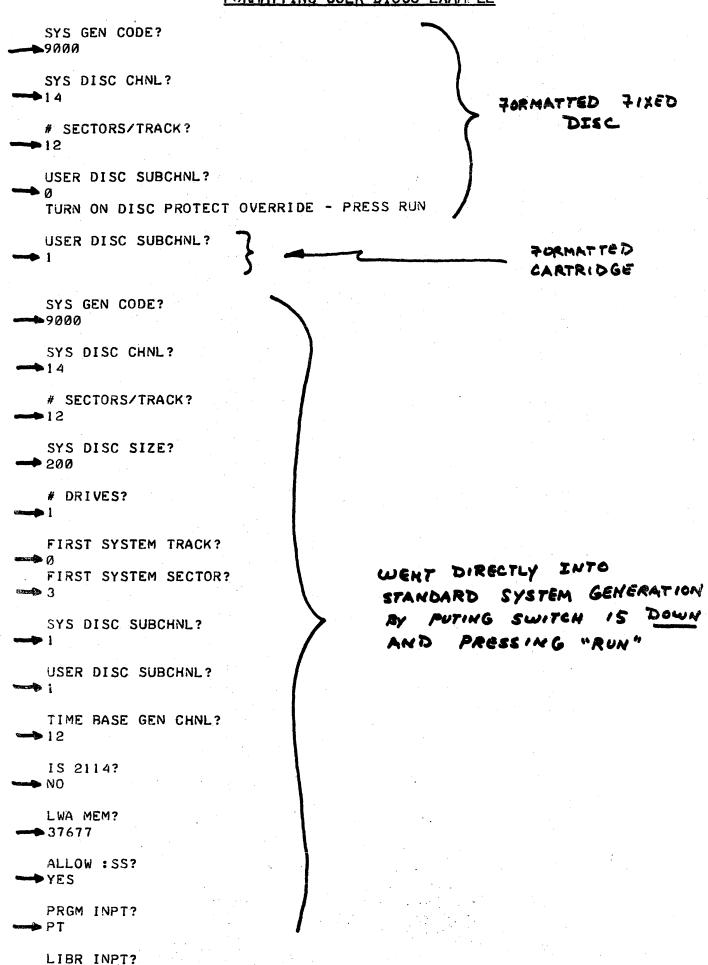
WHAT SYSTEM DOES: CREATES AN UNLABELED DISC READY FOR USE IN DOSM SYSTEM BY

- 1. WRITING NEW LABEL SECTOR ON SECTOR Ø WITH
 - A. FIRST TWO WORDS AS Ø.DO
 - B. GENERATION CODE # ENTERED BY OPERATOR
 - C. THREE LABEL WORDS AS *Y,ST,EM
 - D. # BAD TRACKS AS Ø
- 2. WRITING NEW BOOTSTRAP ON SECTORS 1 AND 2
- 3. CLEARING ALL PCI AND DCI ON ALL SECTORS

OPERATION PROCEDURE:

- 1. ALL EQUPMENT ON. "READY" DRIVE.
- 2. DISC PROTECT OVERRIDE SWITCH "ON".
- 3. LOAD CONFIGURED SYSTEM GENERATOR (DSGEN) INTO MEMORY USING BBL.
- 4. LOAD ADDRESS 100 octal.
- 5. Switch 15 "UP".
- 6. PRESET AND RUN.
- 7 Answer requests printed on TTY.
- 8. SYSTEM GENERATOR HALTS WITH T=102007 AT END.
 PRESS "RUN" TO DO ANOTHER DISC (WITH SWITCH 15
 STILL "UP") OR PUT SWITCH 15 DOWN AND PRESS "RUN"
 TO BEGIN SYSTEM GENERATION PROPER.

FORMATTING USER DISCS EXAMPLE



CSLIDE 42

PT

DOSM ABSOLUTE DISC FILE FORMAT (ENTRY TYPES 1, 2, 3, 4, AND 5)

11 WORD DIRECTORY ENTRY WORD 4 GIVES TRACK/SECTOR ORIGIN FIRST SECTOR OF FILE MAIN SECTION (ABSOLUTE BINARY) SECOND SECTOR OF FILE MAIN SECTION (ABSOLUTE BINARY) THIRD SECTOR OF FILE MAIN SECTION (ABSOLUTE BINARY) FOURTH SECTOR OF FILE MAIN SECTION (ABSOLUTE BINARY) ALWAYS LAST SECTOR OF FILE SECTOR MAIN SECTION (ABSOLUTE BINARY) **BOUNDARY** FIRST SECTOR OF BASE PAGE LINKAGE BASE PAGE SECTION (ABSOLUTE BINARY) SECOND SECTOR OF BASE PAGE LINKAGE BASE PAGE SECTION (ABSOLUTE BINARY)

BASE PAGE SECTION (ABSOLUTE BINARY)

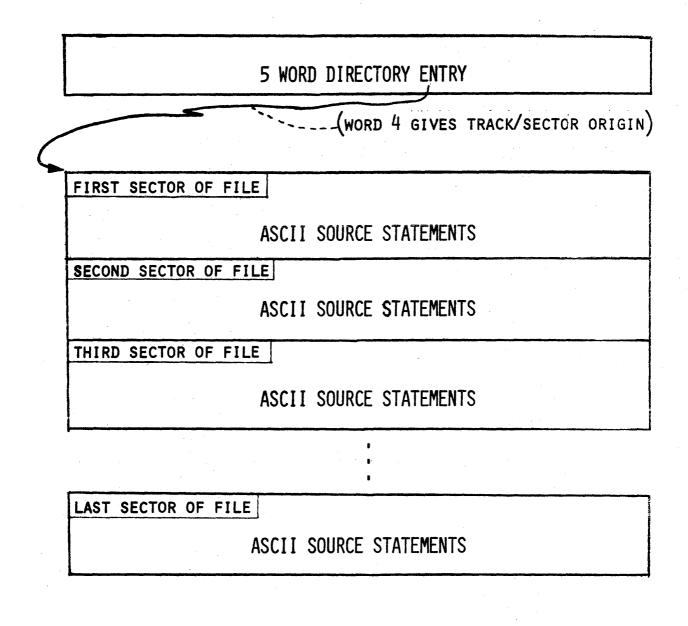
LAST SECTOR OF BASE PAGE LINKAGE

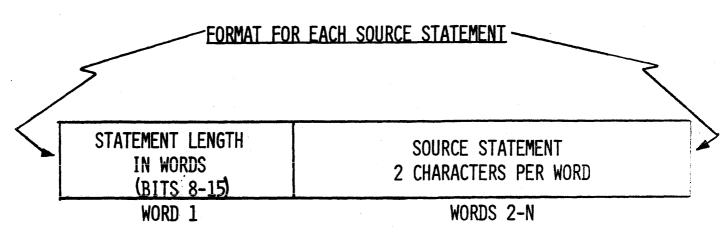
DOSM RELOCATABLE DISC FILE FORMAT (ENTRY TYPES 6, 7 AND 8)

		WORD 4 GIVES TRACK/SECTOR OR
FIRST SECTOR OF FIL	E	
	RELOCATABLE BINARY	
SECOND SECTOR OF FI	LE	
	RELOCATABLE BINARY	
THIRD SECTOR OF FIL	E	
	RELOCATABLE BINARY	
	1	
	# #	

NOTE: "NAM" RECORD LENGTH FOR RTE/DOS/DOSM SYSTEMS IS 17 WORDS IN LENGTH WHICH IS INCOMPATABLE TO "NAM" RECORD LENGTH OF 9 WORDS OF BCS SYSTEMS.

DOSM ASCII SOURCE STATEMENT DISC FILE FORMAT (ENTRY TYPE 9)





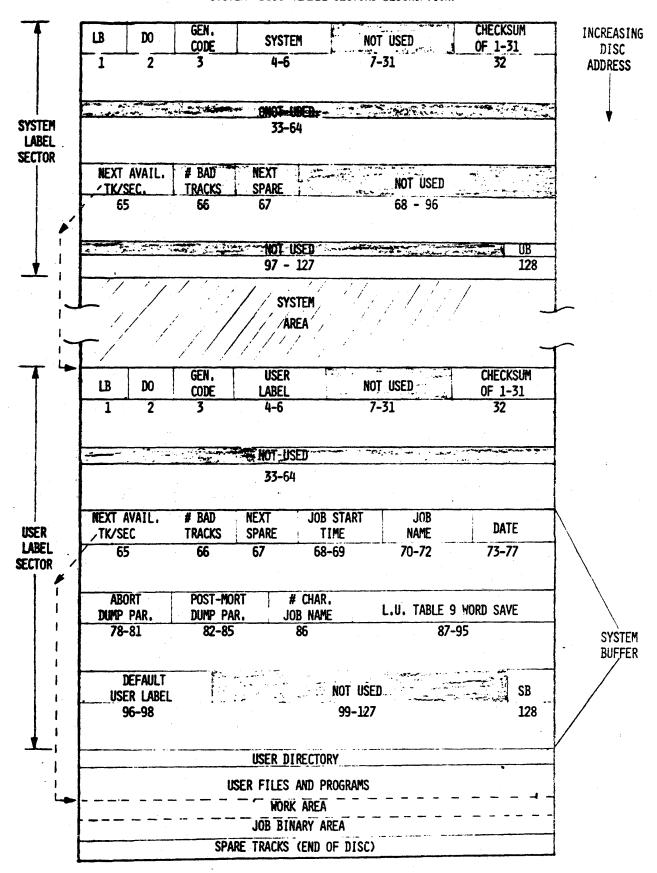
ASCII SOURCE FILE FORMAT EXAMPLE

```
INPUT : DATE, XXXXXXXXXXX, H, M
  @:DA,27.OCT.70,9,15
  SUBCHAN=1
  LBL=00000
  :JOB, ASCII
  JOB ASCII 27.0CT.70
                          TIME = 0555 MIN. 16.0 SECS.
  : ST, S, SORSE, 1
  AAAA
  BBBBB
                   Source
  CCCCCC
  DDDDDDD
  ::
  0004 LINES
  :LIST,U,1,SORSE
  NAME TYPE SCTRS DISC ORG PROG LIMITS
                                              B.P. LIMITS
                                                              ENTRY LIBR.
                                                                             P-BIT
  USCHAN=1
  SORSE SS
             0001
                    TØ55 ØØ3
                                                                                WORDS
  : SO. 55.3
                                              88
                          AA
                                                      88
                         040501
                                  001400
  001 001000
                Ø 4Ø 5Ø 1
                                           041102
                                                    041102
                                                             041040
                                                                      001400
       041503
                041503
                         041503
                                  002000
                                           042104
                                                    042104
                                                             042104
                                                                      042040
       000000
                177777
                         020000
                                  036164
                                           000000
                                                    041456
                                                             031062
                                                                      020000
CORPUS
       256164
                000000
                         046117
                                  040504
                                           051000
                                                    036155
                                                             000000
                                                                      163252
       041120
                051000
                         036146
                                  000000
                                           040523
                                                    046502
                                                             020000
                                                                      036137
       000000
                037501
                         051503
                                  047000
                                           036137
                                                    000000
                                                             037501
                                                                      051515
       041000
                         000000
                036137
                                  037502
                                           047103
                                                    047000
                                                             036137
                                                                      000000
       037502
                050113
                         052400
                                  036137
                                           000000
                                                    037503
                                                             044117
                                                                      050000
       033403
                000000
                         000312
                                  000024
                                           177767
                                                    040523
                                                             041511
                                                                      044440
       031067
                027117
                         041524
                                  027067
                                           030040
                                                    000000
                                                             000000
                                                                      000000
       000000
                000000
                         000000
                                  000000
                                           000000
                                                    000005
                                                             000001
                                                                      000003
       000003
                000004
                         000002
                                  000001
                                           000005
                                                    000000
                                                             000000
                                                                      020473
       050521
                050421
                         044456
                                           020000
                                                    037515
                                                             051531
                                                                      046400
                                  031461
       036137
                000000
                         037522
                                  046125
                                           047000
                                                    036137
                                                             000000
                                                                      037501
       043114
                043400
                         036137
                                  000000
                                           037514
                                                    051524
                                                             046000
                                                                      036137
       000000
                037514
                         052516
                                  044400
                                           036137
                                                    000000
                                                             037522
                                                                      051502
```

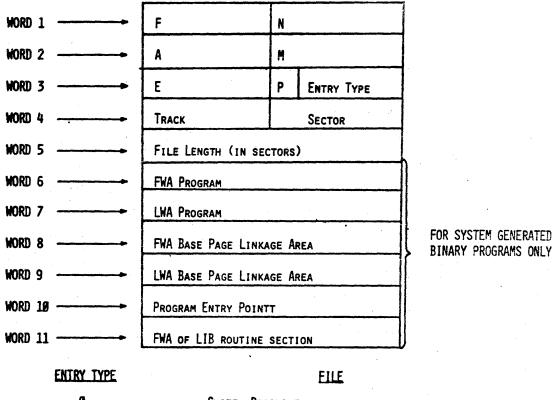
DOSM "SYSTEM" DISC LAYOUT FOR GENERATION EXAMPLE

	SYSTEM LABEL/USER BUFFER SECTOR DISC RESIDENT BOOTSTRAP (2 Sectors)		Ø,Ø Ø,I				
/	SYSTEM DIRECTORY		Ø,3				
	DISC MONITOR EXEC MODULES AND SUBROUTINES I/O DRIVERS	CORE RESIDENT SYSTEM PART 2	Ø,1Ø				
	EQUIPMENT TABLE DEVICE REFERENCE TABLE INTERRUPT TABLE	CORE RESIDENT SYSTEM PART 3					
PROTECTED)	DISC RESIDENT EXEC MODULES AND SUBROUTINES		-1,11 -3,1				
PROT	DISC RESIDENT I/O DRIVERS		73,12				
(HARDWARE F	DISC RESIDENT SYSTEM MAIN PROGRAMS AND THEIR SEGMENTS (JOBPR, LOADR, ASMB, FTN, ALGOL, etc.)						
Ĭ	EXEC MODULE DOUBLET TABLE	CORE RES	-13,6 -13,7				
	DISC RESIDENT RELOCATABLE LIBRARY						
	BASE PAGE SECTION OF CORE RESIDENT SYSTEM (TRAP CELLS, CONSTANTS, COMMUNICATION, LINKAG	CORE RESIDENT SYSTEM PART I	-19,11 -21,0				
ED)	SPECIAL SYSTEM TRACK		•				
PROTECTED)	USER LABEL/SYSTEM BUFFER SECTOR		-22,Ø				
PROT	USER DIRECTORY		-22,1 -23,0				
SOFTWARE	USER FILES AND PROGRAMS		- 55 7				
SOFT	WORK AREA	-	-55,3				
3	JOB BINARY AREA		244 4				
	3 SPARE TRACKS (END OF DISC)		-2ØØ,Ø				

"SYSTEM" DISC (LABEL SECTORS DESCRIPTION)



DIRECTORY ENTRY FORMAT



Ø		System Resident
1		DISC RESIDENT EXECUTIVE SUPERVISOR MODULE
2		CURRENTLY UNUSED
3		USER PROGRAM, MAIN
4		DISC RESIDENT DEVICE DRIVER
5		USER PROGRAM, SEGMENT
6.7		LIBRARY
10 ₈		RELOCATABLE BINARY
118		ASCII Source Statements
12g		BINARY DATA
10 ₈ 11 ₈ 12 ₈ 13 ₈		ASCII DATA

'P' BIT

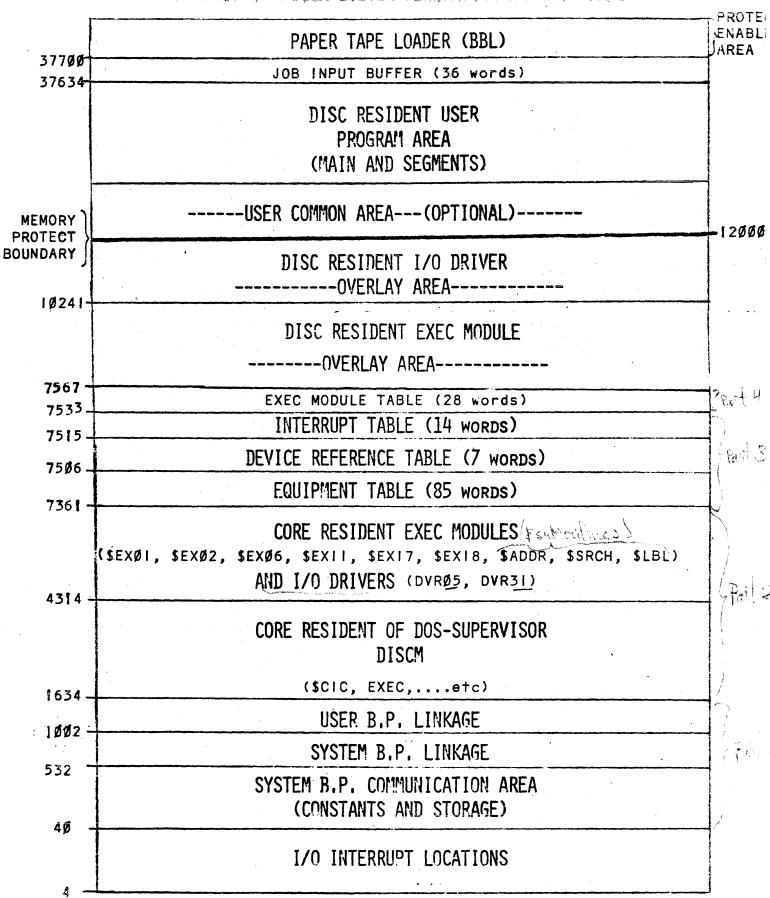
0 - No ACTION

1 = Purge this entry at the end of the JOB or following any execution of :PU DIRECTIVE. This bit is set by the LOADER AND CLEARED BY A :STORE,P,[file-name] REQUEST.

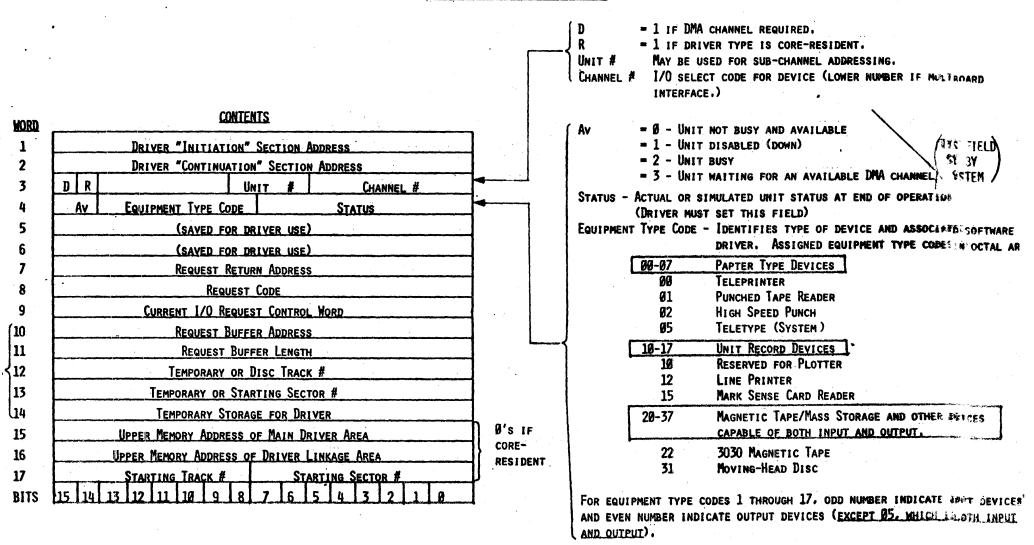
THE LAST DIRECTORY ENTRY IN EACH SECTOR IS FOLLOWED BY A WORD CONTAINING '-1' UNLESS THE GIVEN SECTOR IS EXACTLY FILLED WITH ENTRIES.

THE LAST ENTRY IN THE DIRECTORY IS FOLLOWED BY A WORD CONTAINING ZERO.

CORE MAP FOR DOSM SYSTEM GENERATION EXAMPLE (16X)



EQUIPMENT TABLE ENTRY FORMAT



AVAILABLE

For

DRIVER

TEMPORARY

DEVICE REFERENCE TABLE FORMAT

Each entry in this table requires only one word in memory. The value of each entry (decimal number, 1-63) associates a Logical Unit Number with an Equipment Table Entry for the System in the following manner:

SEQUENCE IN MEMORY TABLE	LOGICAL UNIT #	FUNCTION
1 2 3 4 5 6 7-63	1 2 3 4 5 6 7-63	System Teleprinter User Mass Storage System Mass Storage Standard Punch Device Standard Input Device Standard List Device Any Device

INTERRUPT TABLE FORMAT

Each entry in this table requires only one word in memory and is associated with each I/O channel in the computer (Starting with location 6) which can cause an interrupt. Each location in this table has an entry value. Memory, locations are associated in consecutive increasing order with an I/O channel. Table values are zero for an I/O channel not requiring interrupt. I/O channels requiring interrupt contain the Start Address of the Equipment Table Entry of the associated device.

SYSTEM DIRECTORY LISTING FOR GENERATION EXAMPLE

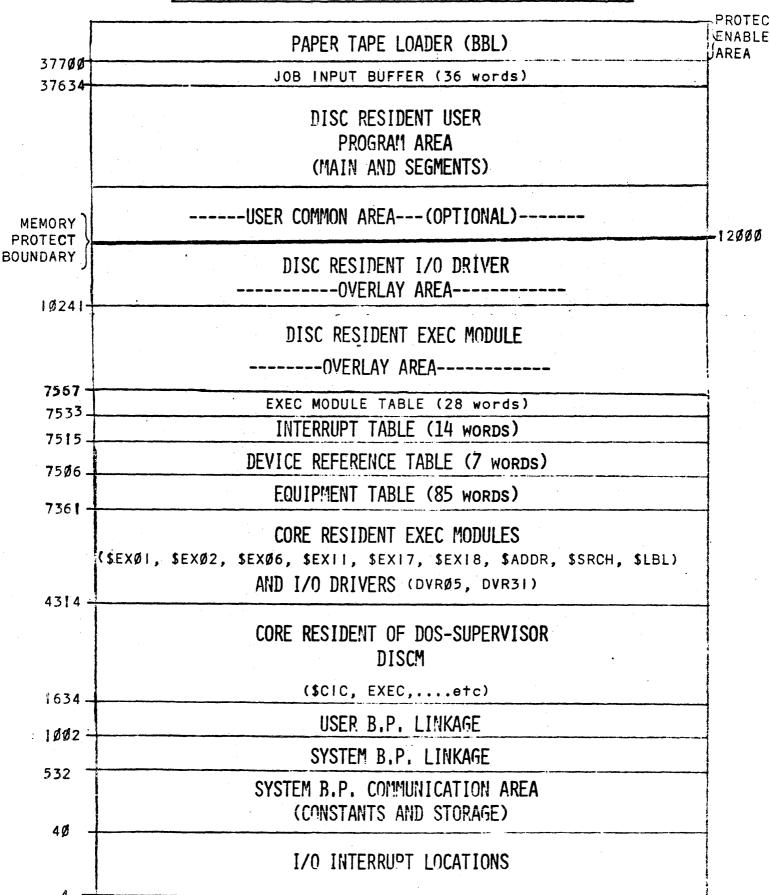
						1						
	NAME T	YPE	SCIES	DISC	OBG	PROG I	IMITS	B.P. L	IMITS.	ENTRY	LIBR.	P-RIT
	SUBCHA					1						
	SEXO3	χs	0002	T001	011	07567	07624	00732	00733	07567	07624	
	SEXON	XS	0004	T001	013	07567	10176	00732	00741	07567	10176	
	SEX05	XS	0005	T001	0.17	07567	07745	00732	00733	07567	07745	
	SEX07	XS	0002	T001	019	07567	07746	00732	00733	07567	0 7 746	
	S FIX O R	XS	0002	T001	021	07.567	07732	00732	00733	07567	07738	
	SEX09	XS	0003	T001	023	07567	10142	00732	00763	07567	10142	
	SEX10	XS	8000	ROOT	002	07567	07745	00732	00733	07567	07745	
	SEX12	XS	0002	T002	004	07567	07761	00732	00733	07567	07761	
	SEX13	XS	0004	SOOT	006	07567	10223	00732	00754	07567	10223	
	SEX14	XS	0004	T002	010	07567	10241	00732	00751	07567	10241	
	SEX15	XS	0003	T002	014	07567	10153	00732	00763	07567	10153	
	SEX16	X.S	0002	T002	017	07567	07722	00732	00733	07567	07722	
	SEX19	XS	0003	T002	019	07567	10107	00732	01000	07567	10107	
_	\$EX 20	XS	0003	T002	022	07567	10167	00732	00761	07567	10167	
_	DVE01	DB	0003	T003	001	10241	10555	01000	01002	10241	10555	
	DVROS	DB	0003	T003	004	10241	10443	01000	01002	10241	10443	
	DVP22		0005			10241			01002.			
	LOADE	UM	0032	T003	015	12000	21032	01002	01425	12000	21032	
	JOBPR	UM	0038	T004	050	12000	22463	01002	01414	12000		
	ASMR	ÜM	0023	T006	010	12000	17120	01002	01362	16522	17 120	
	ASMAD	US	0004	T007	009	17127	17647	01362	01363	17442	17 647	
	ASMR1		0006				20542	01362		17366		
	ASMBS		0007			17345		01362	01410	1,7351	20550	
	ASMR3		0003			17473		01368		17630		
	ASMB4		0004			17366		01362		17366	20027	
	ASMB5	US	0006			17345		01362		17351	20425	
	-	ŬM	0006			15000			01047	12000		
	FTN01		0031				22120		01502	16550		
	FINOS		0025				21027		01356	13741		
	FTN03		0024				20600	01047	01277	15117		
	FTN04		0025			13254	20750	01047	01360	13702	20750	
	LIBRY	LB	0147	T013	007							

EXEC MODULE DOUBLET TABLE FORMAT

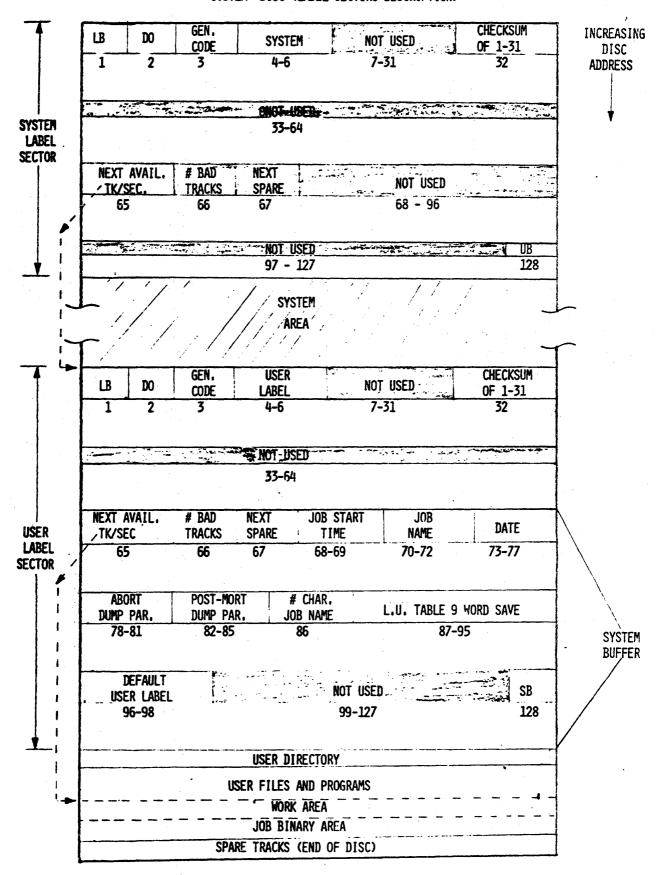
(TWO WORDS PER DISC RESIDENT EXEC MODULE)

WORD	# SECTORS - 1	EXEC MODULE ID #
#1	15-11	10-0
ŗ		
WORD #2	START TRACK #	START SECTOR #
<i>"•</i>	15-8	7-0

CORE MAP FOR DOSM SYSTEM GENERATION EXAMPLE (16K)



"SYSTEM" DISC (LABEL SECTORS DESCRIPTION)



DIRECTORY ENTRY FORMAT

· · · · · · · · · · · · · · · · · · ·			"
WORD 1	F	N	
WORD 2	A	M	
WORD 3	E	P ENTRY TYPE	
WORD 4	Track	Sector	
WORD 5	FILE LENGTH (IN SEC	TORS)	
WORD 6	FWA PROGRAM		
WORD 7	LWA PROGRAM		
WORD 8	FWA Base Page Linka	GE AREA	FOR SYSTEM GENERATED BINARY PROGRAMS ONLY
WORD 9	LWA Base Page Linka	GE AREA	
WORD 10	PROGRAM ENTRY POINT		
WORD 11	FWA OF LIB ROUTINE	SECTION	
ENTRY TYPE		FILE	

NTRY TYPE	EIL	Ε

Ø	 System Resident
1	 DISC RESIDENT EXECUTIVE SUPERVISOR MODULE
2	 CURRENTLY UNUSED
3 .	 IISER PROGRAM, MAIN
4	 DISC RESIDENT DEVICE DRIVER
5	 USER PROGRAM, SEGMENT
6.7	 LIBRARY
108	 RELOCATABLE BINARY
118	 ASCII Source Statements
128	 BINARY DATA
10 ₈ 11 ₈ 12 ₈ 13 ₈	 ASCII DATA

'P' BIT

- 0 = No Action
- 1 = Purge this entry at the end of the JOB or following any EXECUTION OF :PU DIRECTIVE. THIS BIT IS SET BY THE LOADER AND CLEARED BY A :STORE, P, [file-name] REQUEST.

THE LAST DIRECTORY ENTRY IN EACH SECTOR IS FOLLOWED BY A WORD CONTAINING '-1' UNLESS THE GIVEN SECTOR IS EXACTLY FILLED WITH ENTRIES.

THE LAST ENTRY IN THE DIRECTORY IS FOLLOWED BY A WORD CONTAINING ZERO.

USER DIRECTORY LISTING IN GENERATION EXAMPLE SYSTEM

```
ENTRY LIBR.
NAME TYPE SCTRS DISC ORG PROG LIMITS
                                          B.P. LIMITS
                                                                        P-BIT
SUBCHAN=1
                                          01002 01036
                                                          12000 14071
XREF
      UM
          0013
                 T023 000 12000 14750
EOT1
      SS
          0001
                 T023 013
                                                          12000 12013
                                          01002 01003
WEOT
                 T023 014 12000 12013
      UM
          0002
XREFR RB
          0016
                 TØ23 Ø16
DISCM RB
           0020
                 T024 008
EXECS RB
           0063
                 T025 004
DVRØ5 RB
          0003
                 TØ27 Ø19
DVR31 RB
          0005
                 TØ27 Ø22
LIBRY RB
          0143
                 T028 003
DVRØ2 RB
          0002
                 TØ34 ØØ2
DVRØ1 RB
           0003
                 T034 004
DVR22 RB
           0007
                 TØ34 ØØ7
LODR
      RB
          0049
                 TØ34 Ø14
JOBP
      RB
          0065
                 TØ36 Ø15
ASMBL RB
           0040
                 T039 008
ASMD
      RB
          0004
                 T041 000
ASM3
      RB
          0004
                 TØ41 ØØ4
ASM4
          0006
                 TØ41 ØØ8
      RB
ASM5
      RB
          0010
                 TØ41 Ø14
FRTN
      RB
           0008
                 TØ42 ØØØ
FTNI
      RB
          0048
                 TØ42 ØØ8
FTN2
          0045
      RB
                 T044 008
FTN3
      RB
          0042
                 T046 005
FTN4
          0031
      RB
                 T047 023
          0012
ASM1
      RB
                 TØ49 ØØ6
ASM2
          0011
                 TØ49 Ø18
      RB
5101
      SS
          0005
                 T050 005
BASC1 SS
          0009
                 T050 010
BOOT
      SS
          0021
                 TØ50 Ø19
                 TØ51 Ø16
FTNH
      SS
          0001
EOF
          0001
                 TØ51 Ø17 12000 12013
      UM
                                          01002 01002
                                                          12000 12013
FSPCE UM
          0001
                 TØ51 Ø18 12000 12013
                                          01002 01002
                                                          12000 12013
RWIND UM
          0001
                 TØ51 Ø19 12000 12013
                                          01002 01002
                                                          12000 12013
D.00S SS
          0067
                 TØ51 Ø20
TSRTS SS
          0006
                 T054 015
          0005
TSRTR RB
                 TØ54 Ø21
CLEAR BD
          0001
                 TØ55 ØØ2
```

0004				_			
-∡ — TTTTQ#3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	200 See See See See See See See See See S	า เมษาสมัยสำคัญสาราช	
The second named in column 2 is not a se			The Contract April 2011				
CANG		(4.4.4.514.72	SELV NO	7			
9007			SEEK NO	CYL	CALINDED	(TRACK) NUMB	- D
8008 800 9		100610				LE TO DATA C	
	400 1 12/7/20 (1)	103710	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NC.C			""- ノ 1
80.6453.92.6 30.0	10	808136		Skoo	INAN SEE	COMMAND	
0012		054154	A CONTRACTOR OF THE PARTY OF TH	LSTSK		= LAST CYL#	ACCESSED.
9613		030151		R MSIGN	• • • • • • • • • • • • • • • • • • • •	SE CMND TO AD	
0014		074154		LSTSK		LAST SEEK IN	
		030157		LBRY	INCLUDE		
0816	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100711	A Company of the Comp	33 3			\ No
1966 A. C.	111.05.00.1 228.189	102511		CC	OUTPUT SI	EK/ADDRESS C	OMMAND) 2
0618		103711		CC,C	TO CHN		
2019	00016	102310	SFE	DC \		OR CYL# AC	CERTANCE
3020	00017	024010	WC/	*-1 /	- WAIT \$	or cylt ac	CE []
0021	99920	969156	L 12	I DECT	HEAD:811	15-8: SECTO	RIBITS 7-0
	00021	102610	8088) - C. C. S.	DC.	OUTPUT H	EAD/SECTOR TO	DATA CHNL
		103710		DC,C		LIOTE 3	
9024 9025	00023	102311	SPO	CC	•	ERRUPT MODE,	
0025		024323	<u> </u>	*-1		RETURN ON INT	ERRUPT
0026		014121		STAT4	CHECK ST	ATUS)	
	66826	124002	Q.	· Geek, I			
8828*							
	RUILL					NECORD (130	
0030*						OTHER PISC CO	
9031 * 9032 *						MAY BE ISSUED IS ALREADY IN	
8033*				·····		JTE FASTER TH	
9634*	decidente como como en la como de la como en		Acceptance of the control of the con	No. 2004 and 100 and 1		ING IN THE EX	\$200000 DESCRIPTION OF THE PROPERTY OF THE PRO
0035*			05 (2 · · ·) (2 · · ·) (3 · · · · · · · · · · · · · · · · · ·	GOGGAGO CUSCUS GOGGAGOGAGOGAGOGAGAGAGAGAGAGAGAGAGAGAGA		BLE ONLY TO	4995 (1980 (1981 - 1981 - 1981 - 1981 (1985 1985) (1984 1984 (1985 1986 1986 1986 (1986 1986 1986 1986 1986 1
9836*				The state of the s	The state of the s	DAMENT, PROVI	
0037*						E HEAD POSIT	
0038*			H FUR EAC		-		
0039*							
				State of State of the second o			
	NOTE	1; 8:7	s ø-7 =	CYLMBEA	* * * * 817S	8-15 = g	
	Note	<u>1</u> ; 8:r	s ø-7 =	Chrwpev	# ; 8 175	8-15 = g	
	Мотв						
	Note Hote		\$ \$ -7 °				DRIVE #
	Note Note						DRIVE #
	NOTE HOTE	<u>a:</u> 800	i 0	<u>L (Anna</u>	ad Code	8/72 Ø-/ =	DRIVE #
	NOTE HOTE	<u>a:</u> 800	<u>(4-6</u>	<u>L (Anna</u>			DRIVE #
	NOTE HOTE NOTE	<u>a:</u> 800	i 0	<u>L (Anna</u>	ad Code	8/72 Ø-/ =	DRIVE #
	NOTE HOTE HOTE	<u>a:</u> 800	i 0	<u>L (Anna</u>	ad Code	8/72 Ø-/ =	DRIVE #
	Note Mote	<u>a:</u> 800	i 0	<u>L (Anna</u>	ad Code	8/72 Ø-/ =	DRIVE #
	BTON BYON BTON	<u>a:</u> 800	i 0	<u>L (Anna</u>	ad Code	8/72 Ø-/ =	DRIVE #
	NOTE HOTE NOTE	<u>a:</u> 800	i 0	<u>L (Anna</u>	ad Code	8/72 Ø-/ =	DRIVE #
	NOTE NOTE NOTE	<u>a:</u> 800	i 0	<u>L (Anna</u>	ad Code	8/72 Ø-/ =	DRIVE #
	MOTE MOTE	<u>a:</u> 800	i 0	<u>L (Anna</u>	ad Code	8/72 Ø-/ =	DRIVE #

4	6342	****		0.000			
4	0043				1 _		
5	0044		290000	read	NOP	4	
٠	0045	COCCUS DOLLARDON STREET, AND ALCOHOLOGICAL S	NO012			DMACW	LOAD DMA CUNTROL WORTH,
"	8046	100000000000000000000000000000000000000	636153		2. 2002677272	DOBML	INCLUDE DATA CHNL#,
8	8047	00032	102606		OTA	6	AND CUTPUT TO DMA CHAL
'	0948	00033	100762		CLE		
10	0049	00034	066160			CORAD	LOAD CORE BUFFER ADDRESS,
11	0050	00635	036151		IOR	Meion	INCLUDE DIRECTION BIT,
12	3051	Ø ØØ36	102602		OTA	2	AND SET IN MEMORY ADDRESS REG
3	8852	00037	102702		STE	2	
4	0053	00040	868161		LBA	WECHT	LOAD NES # OF WORDS
15	0054	00041	102602		STA	2	AND SET IN MORL COUNT REG
16	0055	06642	163718	(STC	DC, C	SET DATA CHNL FOR INPUT NOTE 1
17	0056	66643	060140		LDA	ROCMD	LOAD READ COMMANU
	0057	00044	030157			DRY	INCLUDE DRIVE#
9	Ø058	00045	100711	1	CLC	ec .	NOTE 2
70	0059	00046	102611	Ĺ	GTA	<u>cc</u>	DUTPUT READ COMMAND TO CHID CHIL
1	8868	60047	103706		336	6,C	START DHA
2	0061	00000	103711		STC	CC, C	START DATA THANSFER
?3	8062	00051	100706		CLC	6	INHIBIT DMA INTERRUPT
24	0063	60052	102311		SFS		* IN INTERRUPT MODE, EXIT HERE
15	9064	00053	024052			6-1	* AND RETURN ON INTERRUFT
6	8065	00054	014121		35B	STAT	-(CHECK STATUS)
7	8666	90.000 100 12 : 000 200 500 00	124827			BEAD, I	

	FROM	CONTROLLER			
-					
Noss	L : Plans	ME DATA C	HANNEL TO	RECEIVE	ATAG

NOTE 2: BETS 13-16 & ROAD COMMAND; 3175 8-1 =

```
8666
    0 6 7 8 m
                         WRITE NOP
    Ø 071
          04000 000000
                                 BA DMACW
                                               LOAD DMA CONIRGE WORD,
          UUUD7 860152
    06/2
    8673
          80868 830153
                                                 INCLUDE DATA CHNL#,
                                OTA 6
                                                 AND DUTPUT TO DMA CHAL
    0074
          68861 185989
                                <u>ele a</u>
    8075 00062 100702
                                LDA CORAD
                                               LOAD CORE BUFFER ADDRESS
    0076
          00063 060160
    8077
          00064 102602
                                OTA 2
                                                 AND SET IN MEMORY ADDRESS REG
                                STC 2
    2078
          00005 102702
13
                                lda wdcnt
                                               LOAD NEG # OF WORDS
    8079
          BBB66 Beriel
                                OTA 2
    2080
          00067 102602
                                                 AND SET IN WORD COUNT REG
    8081
          00070 102110
                                               SET DATA CHANNEL FOR OUTPUT
          00071 060144
                                LDA WREND
                                               LOAD WRITE COMMAND
    3682
17
    9083
          00072 030157
                                IOR DAY
                                               INCLUDE DRIVE#
          88873 186711
                                CLC CC
    0084
19
          98974 102611
                                ata cc
                                               OUTPUT WRITE CHND TO CHND CHN
    0685
          00075 103766
                                ate aje
    6986
                                               START DMA
                                etc cc.c
    8087 90875 183711
                                               START DATA TRANSFER
22
    9088
          UUD77 100706
                                CLC 6
                                               INHIBIT DMA INTERRUPT
23
          00100 102311
                                SFS CC
    0089
                                               * IN INTERRUPT MUDE, EXIT HERE
                                JPP +-1
24
    2639
          00101 024100
                                                   AND WAIT FOR INTERRUPT
                                (CHECK STATUS)
   8091 00122 014121
                                JIP WALTE, I
    8892 88183 124856
    8893*
    0094* NOTE: THE *WHITE* SEQUENCE ABOVE MAY BE USED,
    0095*
                 WITH THE APPROPRIATE COMMAND, AS FOLLOWS:
    8496*
    8897*
                   COMMAND (OCTAL)
                                        FUNCTION
31
32
    8098*
    8899*
33
                       ELEGAU.
                                        WRITE DATA
    0100+
                       116660
                                        INITIALIZE DATA
35
    0101+
                                           (USED TO
                                                    INITIALIZE ADDRESS
    0102*
                                           FIELDS OF A NEW DISC)
                       116468
37
    0103*
                                        FLAG DEFECTIVE CYLINDER
38
                                        FLAG PROTECTED CYLINDER
    0104*
                       111699
    0105*
                 ALL EXCEPT WRITE DATA REQUIRE THAT THE
    9106*
41
    0107*
                   DISC PROTECT OVERRIDE SWITCH BE TURNED ON
42
    0108*
43,
                 ALL OF THESE COMMANDS ACTUALLY WRITE DATA IN
    8109*
44
                   IME SECIONIS) BEING PROCESSED. IF THE WCR
    8118*
                   <u>boes to zero before the enu of the sector</u>
    0111*
                   IS REACHED, THE REMAINDER OF THE SECTOR
    0112*
                   WILL BE FILLED WITH ZEROS; THUS IF ZERO
    0113*
                   WURDS ARE SPECIFIED, THE ENTIRE SECTOR IS
    8114*
                   WRITIEN WITH ZEROS.
    9115*
    9116*
                 LAG CYLINDER PROTECTED ON DEFECTIVE ARE SUBSETS
    0117*
                  UF THE INITIALIZE DATA COMMAND, AND WRITE THE
    0118*
    0119#
                   ADDRESS FIELD(S) OF THE SECTOR(S) BEING PROCESSED.
    0120-
55
```

0124		•				t, and a
9123* 0124*	*** CHECK	PATA ****				
0125	00104 0000	BU CHECK	NVB T		•	
9126	00105 0001		LDA SCTRS	LOAD SEC	TOR COUNT I	U BE CHECKED
0127	00106 1056		OFA DC		TPUT TO DAT	
8158	00107 1037		STE DE C		,,, 01: 10 2-1	HOTI
	00110 80+1		LDA CHEND	I DAD CHI	CK DATA COM	
0130	00111 0301		TOR DRY	INCLUDE		
9131	00112 1007		ELE CC	11041100	DIV. I. J. L. W.	
Ø132	00113 1036		OTA CG,C	AUTPUT (CHECK COMMAN	n) NOTE 2
0133	00114 1037		STE GGIC	TO CM		
0134	00115 1023		SFS CC		ERRUPT MODE	FYIT HERE
A CONTRACT OF THE ACT	60116 0241		JMP >-1		RETURN ON I	
8136	00117 0141		JSB STAT -			** * W 1943 W 1 - 4
0130 0137	00120 1241		Jap Check, 1		71007	-
P 13/	00154 1541	. V 4	AUR AURCET	•		
aynaan A	a a la companion de la compani La companion de la companion d	t ga Silak				
	<u>. C. A. Jacobson (S. A. /u>		Marie Ways and a second and a second			
					and the second s	
	MOTE 2:			eck Data	COMMAND	
	MOTE 2 :		-1 = DRIVE		COMMAND	<u> Alle Communication and Alle Communication a</u>
	Nort 2.5				COMMAND	
	North 2.5				COMMAND	
			-1 : DRIVE			AS IT
	THE CO	Birs #	-1 : DRIVE	* #	AND MUCH	AS IT
	THE CO	BITS #	-1 : DRIVE	THE COMM	AND MUCH SFER OF D	
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ? ; HOWEVER	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ? ; HOWEVER	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ? ; HOWEVER	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA
	THE CO DOES R	BITS #	-1 : DRIVE FXECUTES ; HOWEVER OF CHECK	THE COMM	AND MUCH SFER OF D	ATA

```
0139
     0148 --- STATUS CHECK ----
    01410
     0142
           00121 000000
                          STAT
                                NOP
                                               (TURN OFF INTERE SYS IF IT'S ON)
     0143
           60155 102160
                                              SET DATA CHANNEL FOR ENPUT
                               ETE DE, C
    0144
           00123 103710
                                              LOAD DRIVE#
    0145
           00124 066157
                                LIA BRY
          00125 100711
                                CLC FE
    0146
                                OTA CC
           00126 102611
                                               OUTPUT STATUS COMMAND
     0147
 11
           00127 100711
                                STC CC.C
                                                 TO CMND CHANNEL
     0148
12
     0149
           00130 102310
                                SFS DC
 13
    0150
           00131 024130
                                Jap +-1
     9151
           00132 100711
                                crc cc
          00133 102510
                                               GET STATUS FROM DATA CHNL
     0152
           00134 102160
     0153
                                               (RESFT INTERR SYS IF IT WAS CN)
 17
     9154
           00135 124121
                                JMP STAT, I
    C155*
    0156*
            NUTE: IUMEC STATUS BITS
    0157*
21
                   15 - ATTENTION - OPERATION COMPLETED
    @158*
 22
    0159×
                   14 - FIRST SEEK - DRIVE HAS GUNE FRUM NOT READY TO READY
     0160*
                   13 - UVERRUN - LATE DATA TRANSFER - HARDWARE FAILURE
 23
                   12 - REAT/WRITE UNSAFE - HARDWARE FAILURE
24
    9161*
    0162*
                   11 - ACCESS UNSAFE - HARDWARE FAILURE
     Ø163* :
                   10 - ACCESS HUNTING - HARDWARE FAILURE
                    9 - SEEK INCOMPLETE - HARDWARE FAILURE
    0164*
    $165*
                    B - SEEK CHECK - SOFTWARE ERROR (E.G., CYL# > 202)
    $166*
                    7 - (NLT USED)
    Ø167*
                    6 - NUT READY (ALSO SET WHEN BITS 11 AND/OR 12 SET)
 31
                    5 - END OF CYLINDER - SOFTWARE ERROR - ATTEMPTED TO
    2168*
 32
                           WRITE PAST THE END UP A CYLINDER
    3169*
33
    0170+
                    4 - ALCRESS ERRCH - ADDRESS ISSUED DOES NOT AGREE WITH
    9171*
                          LISC ADDRESS - HARDWARE FAILURE OR DISC NOT
 35
                           INITIALIZED - UH - IF BIT 3 IS ALSO ON, THEN
    0172*
                           THE CYLINDER BEING PROCESSED HAS BEEN FLAGGED
     0173*
 37
    2174*
                      LEFECTIVE.
    0175*
                    3 - FLAGGED CYLINDER - SET IF CYLINDER BEING PROCESSED
    0176*
                        HAS BEEN FLAGGED PROTECTED OR (IF BIT 4 IS ALSO SET )
    9177*
                        DEFECTIVE - OR - INITIALIZE DATA COMMAND HAS BEEN
 41
    0178*
                        ISSUED WITH BISC PROTECT OVERRIDE SWITCH OFF
~ 47
    8179×
                    2 - UKIVE BUSY - SEEK IN PROCESS
 43
                    1 - UATA ERROR - CYCLIC CHECK INCORRECT
    0180*
                    0 - ANY ERROR - TURNED ON WHEN ANY OF THE ABOVE EXCEPT
    0181*
    0182=
                    #11 15 DR, ON A READ OR CHECK DATA, BIT 3, IS SET.
    0183*
 47
    0184* NUTE: ANY HARDWARE FAILURE WHICH DOES NOT SET BIT 6 MAY BE
48
    0185*
                   KEUOVERABLE ON RETHY.
 49
    2186*
 58
55
```

TOLIDE COET

0188*			ارده. معالا <u>شدرد د</u>	ه کند در پیشون			
		A CONE	ANT A	D.S	torage ar		
0190*	69010		DC	EOU	198	DATA CHANNEL (HIGH PRIORITY)	
6192	09911		CC		118	COMMAND CHANNEL (LOW PRIORTY)	
0193*						SELECTION STRUCTURE CON LINCOLITY	
1 C 1/2 C 1/	00136	30000	SKOMB	OCT	#3 <i>4956</i>	SEEK RECORD COMMAND	
	00137				130000	ADDRESS RECORD COMMAND	
0196	00140				PASSES	READ DATA COMMAND	منسو
3197		999999			965555	CHECK DATA COMMAND	
	00142				***	STATUS CHECK COMMAND	
0199	00143	35488 0	RECHA	OCT	#5 ####	REFINE SECTOR COMMAND	
0200					1933 - 1933 - 17 7 1743 - 1870 - 183		
0201	00144	00000	MACMU	NOP		STORAGE FOR CURRENT WRITE CHN	1
9505*							
0263	00145				\$ 1 BBBB	Wrete data command	
<u> 2204</u>					116656	INITIALIZE DATA COMMAND	83
9295	00147				111000	FLAG PROTECTED CYLINDER CHWD	Ö
2206	00150	110460	DCCAD	oci	115455	flag defective cycinder cand	
020/* 0208	WHILE	111111111111111111111111111111111111111	Marian	AC T	146040	BIT 15	
3299	00151		_		120000	DMA CUNTROL WORD	
D213*			LIMON	00.	160060	BILL CONTROL WORL	
	BeibB	200010	LCHNL	OCT	10	DISC DATA CHNL# (HP)	7
	00154		LSTSK	- 1873 C - 127 C - 1		LAST SEEK IND. (INIT. > 202)	
8213*	6888 B. C.					그래 [å,
3214	00155 (000000	LYL	NOP		CYLINDER#	
9215	00156	000000	FLSUT	NOP		HEAD#(15-8), SCTR#(7-0)	
0216	UN157 1		LRV	NOP		DRIVE#	
0217		300060				CORE BUFFER ADDRESS	•
0218	00161 6	CONTRACTOR AND ADMINISTRATION OF THE PARTY O				NEO #WORDS TO BE TRANSFERRED	
8219		00000	SCTRS	NOP		POS #SCIRS TO BE CHECKED	2
0220+				F 31.1.			
0221 ** N	O ERRORS			ENU			
	U ENNUN.						
			and a series		inglie National services	en de la companya de La companya de la co	
					in i and distributed the best and appeared to the consequence to the consequence of the c		
		•					
				26.8	<u> </u>		
	i kraj Barjini						
					*1.		
	<u> </u>	<u> </u>			de para de la como de la trada, como esc ale de la como escale dela como escale de la como escale dela como escale dela como escale dela como escale de la como escale de la como escale dela como escale de la como escale dela como escale		

SFS DC

0056

00064 102300

```
0057
          00065 024064
                                JMP *-1
    0058
          00066 102500
                                LIA DC
                                              -GET STATUS
                                               ANY ERROR?
    0059
          000010
                                SLA
                                HLT 11B
                                                -YES
    8060
          00070 102011
    0061
          00071 124056
                                JMP STAT, I
    0062*
    0063
          00100
                                ORG 100B
                                               BOOTSTRAP START ADDRESS
                                JMP BOOT
   0064
          00100 024005
                                ORG 105B
   0065
          00105
          00105 000222
                         DFEND DEF CHSUM
   0066
    0067*
    0068
          00110
                                ORG 110B
    0069*
    0070
          00110 002400
                         RELOC CLA
    0071
          00111 170212
                                STA CLERI.I
    0072
          00112 170213
                                STA CLER2.
    0073
          00113 060170
                                LDA HDMSK
    0074
                                STA ABHDM.I
                                               SAVE HEAD# FOR DISC-RES. BOOT
          00114 170214
   0075
          00115 060166
                                LDA DRV#
    0076
          00116 170220
                                STA ABDRV.I
    0077
          00117 060165
                                LDA CHAN
    0078
          00120 170215
                                STA ACHNL,I
                                               SAVE DISC I/O CHNLS
    0079
          00121 170216
                                STA ADCHN, I
          00122 002004
    0080
                                INA
                                                 FOR DISC-RESIDENT
   0081
          00123 170217
                                STA ACCHN, I
                                                 BOOTSTRAP
    0082*
    0083
          00124 064221
                                LDB SPPNT
    0084
          00125 144221
                                ADB SPPNT, I
                                                                ASPBF
    0085
          00126 160001
                                LDA B.I
                                               GET ADDRESS OF
          00127 010202
    0086
                                AND M76K
                                               ISOLATE PAGE BITS
    0087
          00130 040176
                                ADA N2KB
                                               SUBTRACT 1 PAGE
   0088
          00131 070171
                                STA PGMSK
    0089
          00132 160001
                                LDA B, I
    0090
          00133 010201
                                AND M1777
BOTSTRAP
    0091
                                IOR PGMSK
          00134 030171
                                                       ASPBF
    0092
          00135 170001
                                               ADJUST
                                STA B.I
                                                             ADDRESS
    0093
          00136 044175
                                ADB NI
    0094
                                LDA B.I
          00137 160001
    0095
          00140 010201
                                AND M1777
                                IOR PGMSK
    0096
          00141 030171
    0097
          00142 170001
                                STA B.I
                                               ADJUST DEFDY
    0098
                                ADB NI
          00143 044175
    0099
          00144 160001
                                LDA B.I
    0100
          00145 010201
                                AND M1777
    0101
          00146 030171
                                IOR PGMSK
    0102
          00147 170001
                                STA B.I
                                               ADJUST DVADR
                                LDA DBOOT
    0103
          00150 060211
    0104
          00151 010201
                                AND M1777
    0105
          00152 030171
                                IOR PGMSK
          00153 070172
                                               SET TRANSFER ADDRESS
    0106
                                STA RELBT
          00154 064173
                                LDB N256
    7010
    0108
          00155 074167
                                STB WDCNT
    0109
          00156 164211
                         MVMOR LDB DBOOT, I
    0110
          00157 174000
                                STB A, I
    0111
          00160 002004
                                INA
                                                 RELOCATE
    0112
          00161 034211
                                ISZ DBOOT
                                               * BOOTSTRAP
```

```
0113
           00162 034167
                                ISZ WDCNT
    0114
           00163 024156
                                JMP MVMOR
    0115*
    0116
           00164 124172
                                JMP RELBT, I TRANSFER TO DISC-RES. BOOTSTRAP
    0117*
                                                DISC DATA CHANNEL
    0118
           00000
                          DC
                                EOU 0
    0119
                          CC
                                EGU 1
                                               DISC CMND CHANNEL
           וטטטטו
    0120
                          CHAN
                                NOP
           00165 000000
    0121
           00166 000000
                          DRV#
                                NOP
           00167 000000
    0122
                          WDCNT NOP
    0123
           00070 000000
                          HDMSK NOP
    0124
           00071 000000
                          PGMSK NOP
    0125
           00172 000000
                          RELBT NOP
    0126
           00173 177400
                          N256
                                 DEC -256
PROPER
    0127
           00174 177405
                          N251
                                 DEC -251
    0128
           00175 177777
                                 DEC -1
                          N1
    0129
                                 OCT -2000
           00176 176000
                          N2KB
           00177 177700
                                 OCT -100
    0130
                          NIUU
    0131
           700000 00200
                          M7
                                 OCT 7
    0132
           00201 001777
                          M1777 OCT 1777
    0133
           00202 076000
                                 OCT 76000
                          M76K
BOOTSTRAP
                          M1774 OCT 177400
    0134
           00203 177400
    0135
           00204 030000
                                 ОСТ ИЗИИИИ
                          SEEK
    0136
           00205 020000
                          READ
                                 OCT U2UUUU
    0137
           100100 90200
                          HDSCT OCT 001001
    0138
           00207 120000
                          DMACW OCT 120000
    0139
           00210 115400
                          MEMAD OCT 115400
    0140
           00211 015400
                          DBOOT OCT 15400
    0141
           00212 015771
                          CLERI OCT 15771
    0142
           00213 015772
                          CLER2 OCT 15772
    0143
           00214 015772
                          ABHDM OCT 15772
    0144
           00215 015773
                          ACHNL OCT 15773
    0145
           00216 015774
                          ADCHN OCT 15774
    0146
           00217 015775
                          ACCHN OCT 15775
    0147
           00220 015776
                          ABDRV OCT 15776
    0148
           00221 015777
                          SPPNT OCT 15777
```

0149*

PAGE	UUU5 #U1	BOOTSTRAP CON	FIGURA TOR
0151*			
0152	00222 000000	CHSUM NOP	
0153*		•	
0154	00223 102501	CONFG LIA 1	GET DISC DATA CHANNEL
0155	00224 010337	AND B77	
0156	00225 070165	STA CHAN	
0157	00226 030207	IOR DMACW	
0158	00227 070207	STA DMACW	CONFIGURE DMA CNTRL WORD
0159	00230 060337	LDA B77	
Ø160	00231 003000	CMA	
0161	00232 040327	ADA DEFBT	
0162	00233 070330	STA CNTR	
0163	00234 064327	LDB DEFBT	
0164	00235 006004	CLOOP INB	*
0165	00236 160001	LDA B.I	*
0166	00237 002021	SSAARSS	* CONFIGURE ALL
0167	00240 024247	JMP CNEXT	★ · · · · · · · · · · · · · · · · ·
0168	00241 010340	AND MASK	* DISC 1/0
0169	00242 002002	SZA	*
0170	00243 024247	JMP CNEXT	* INSTRUCTIONS
0171	00244 160001	LDA B.I	*
0172	00245 040165	ADA CHAN	* IN BOOTSTRAP
0173	00246 170001	STA B.I	*
0174	00247 034330	CNEXT ISZ CNTR	
0175	00250 024235	JMP CLOOP	
0176*			
0177	00251 102501	LIA 1	
0178	00252 002020	SSA	PUNCH CONFIGURED BOOTSTRAP?
0179	00253 024256	JMP *+3	-YES
0180*			
0181	00254 102077	HLT 778	-NO (HALT ERRECOUGRABLE)
0182	00255 024254	JMP *-1	
0183*			

PAGE 0007 #01

```
0241
      00334 000002
                     •2
                           OCT 2
0242
      00335 000003
                     •3
                           OCT 3
                           OCT 4
0243
      00336 000004
                     • 4
                           OCT 77
0244
      00337 000077
                     B77
0245
      00340 070036
                     MASK
                           OCT 070036
0246*
      00341 000342
                     AFDFR DEF *+1
0247
0251
                           LST
0252*
0253
                           END
** NO ERRORS*
```

PAGE 0127 #10

19

```
- 0350
          15400
                               ORG 154008
    DJ51*
    D352*
           THE FULLOWING LCADER PERMITS LCADING OF THE RESIDENT PORTIONS
           UF THE DISC MUNITUR SYSTEM. THE LOADER IS LUCATED ON SECTORS 4 2
    0353*
           TRACK O UF THE SYSTEM DISC.
    0354*
                                         IT IS GENERATED BY THE SYSTEM
   0355*
           GENERATUR AND CONSISTS OF
    0356*
           (1) THE INSTRUCTIONS REQUIRED FOR LOADING THE SYSTEM
    0357*
    U358*
           (2) THE DISK ANT CORE ADDRESSES SPECIFYING LOADING
    0359*
11
    $360×
12
           THE ADDRESSES REQUIRED FUR LOADING ARE THE FOLLOWING:
    0361*
13
    0362*
14
    9363*
           (A) BASE PAGE LINKAGES
    0364+
              (1) LOW CURE AUDRESS
16
    3365*
              (2) HIGH CURE ADDRESS
17
18
    0366*
              (3) DISK ALDRESS OF ABSOLUTE CODE
    D367*
    9368*
           (B) SYSIEM, HI RESIDENT MAIN
              (1) LOW CURE ADDRESS
    0369*
    0370*
              (2) HIGH CORE AUDRESS
72
23
    9371 ×
              (3) DISK ADDRESS OF ABSULUTE CODE
74
   0372*
                                     -
                                          VERSION 10-70
               released
   0373*
25
    8374*
    9375*
    J376*
    2377
          15400 000000
                         START NOP
30
    3378
          15401 06/731
                               LDE DEFUY
    3379
                                              CUNFG. BOOTSTRAP 1/0 INSTR.
          15402 01/570
                               JSB CNFGR
31
          15403 06/732
32
    0380
                               LDB ASPBF
                                              GET APPRS OF DISC SPEC. BFR
33
    9381
          15404 077762
                               STB SPCAD
                                              SET CURRENT SPBUF ADDRESS
    8382
          15405 01/613
                               JSB PLOAD
                                              LOAD BP LINKAGES
                                                                       LOAD CORE
35
    0383
          15406 01/613
                               JSB PLOAD
                                             LOAD MAIN SYSTEM
                                                                       RESIDENT
    0354
          15407 01/613
                               JSB PLOAD
                                              LUAD 1/0 TABLES
36
                                                                       SYSTEM
   0385
         15410 01/613
                               JSB PLOAD
\mathbf{u}
                                              LOAD EXEC DOUBLETS
    8386*
38
39
    0387
          15411 064120
                                              GET # OF EQUIPMENT
                               LDB BEGT#
    2388
          15412 00/004
                               CMB, INB
                                                 TABLE ENIRILS AND
41
    0389
          15413 07/310
                               STB CNTR
                                                 STORE NEGATIVE
          15414 064117
47
    0390
                               LDB BEUTH
                                              GET FWA OF EQUIPMENT TABLE
43
   9391
          15415 044055
                        CNFG1 ADB .2
                                                                    GQT CATAY
44
    8392
          15416 160001
                               LDA B,I-
    3393
          15417 044051
                               ADB .2N
45
          15420 0100/2
                               AND M.77
    3394
   3395
          15421 073773
                               STA CHANL
47
                                              SAVE I/O CHANNEL#
    0396
          15422 053774
                               CPA RUNDI
                                               =RUN TIME DISC DATA CHNL?
48
   0397
         15423 07/763
                               STB SWP1
19
                                                -YES, SAVE
         15424 053775
    0398
                               CPA RUND2
                                               =RUN TIME DISC CMND CHNLY
50
   0399
         15425 07/764
                               STB SWP2
                                                -YES, SAVE
51
         15426 07/304
                               STB EUCUR
                                              SAVE CURRENT EOPT TABLE ALDRESS
   5460
                               ADB .3
    3461
          15427 044056
                                             . A = 4 TH WORD OF EQT Entry
          15430 160001
  ∂04⊌2
                               LDA B, I -
    0403
         15431 001727
                               ALF, ALF
55
    0404
          15432 013752
                               AND M.377
    9405
          15433 075305
                               STA EMPCU
                                              SAVE EGPT TYPE CODE
51
```

PAGE 0128 #10

1				······································	······································	
ſ	406 لد	15434	050060	CPA	.5	=SYSTEM TELETYPE?
1	8497	15435	027460	-	CNFG4	+YES
4	0468		053765		DISK	=DISC ?
5	0409		02/445		CNF G3	-YES
6	0410	15440	064304	CNFG2 LDB		
,	0411	15441	W 4866		.170	INCR TO NEXT EOPMY TABLE ENTRY
	0412	15442	83/3101		CNTR	CHECKED ALL ENTRIES?
9	0413	15443	92/415		CNFG1	-NO
<u>, </u>	0414		02/505		CNF G7	
	0415		044052	CAFG3 ADB		-123
1	D415		160001		e, I	
?						
3	0417		023773		CHANL	
4	0418		033774	•	RUND1	
٠	2419		170001		8,1	SET DISC EUPT TABLE AT RUN TIME
6	0420		063773	-	CHANL	
7	3421		073302	STA	GEND1	SAVE DISC 1/0 CHN2 AT GEN. IIME
8	0422		002004	INA		
9	£423	15455	273303	STA	GENU2	SAVE GEN. DISC CMND CHNL
0	0424		063774	LDA	RUNU1	
1	0425		07 773	•	CHANL	SET CHAN= RUN TIME DISC CHNL
?	3426		06/30	CNFG4 LDB		
3	J427		160001		8, I	
4	0428		073730		•	SAVE BRIVER ENTRY POINT
25	8429	-	164000		A,I	GET CONFIGURATION STOP PUINT
6	0430		01/5/0			- CONT. ALL I/O THET. IN DRIVER
, _	- `431*	13707	W17 37 W	100	CHIGH	A Could' Mee ale such the purious
•	1432	15465	063305	1714	EUPCD	GET EUPMT TYPE CODE
<u>,</u>	0433		050000			
			-	CPA		=SYSIEM TELETYPE?
0 . -	0434		02/440		CNFG2	-YES
1	0435		206064	INB		-NO, MUST BE DISC
	9436		160001		8,1	
3	8437		033773		CHANL	CONFIGURE DMA CNTRL WORD
4	0438		170001		8,1	AND STORE
5	2439		0110004	INB		
6	0440		063747		#SPIK	
7	0441		170001	STA	B,I	* SECTORS/TRACK
8	0442	15477	000004	INB		* IN
9	9443	15500	893064	CMA	, INA	* DISC DRIVER
0	0444	15501	170001	STA	8,1	
I	9445	15502	06/304	LDB	EGCUR	SAVE ADDRESS OF
7	0446	15503	07/311	STB	EGDSK	DISC EQPMT TABLE
3	0447		02/440		CNFG2	
4	9448					CONTINUE
5	2449	15505	060154	CNFG7 LDA	Busco	*
, L	0450*					
7	2451	15506	001722	414	HAL	•
8	8452		013767		M.740	+ SET RUN TIME
9	0453		033774		RUNDI	and the second control of the second control
0	0454		001727			
,					, ALF	* IN *DISCO*
Ĺ	Ø455		001723		RAR	*
?	7456	13213	07W154	STA	BUSCO	•
_ (457*			_		
r '	บ458		063763		SWP1	The state of the s
5	9459		06/302		GEND1	* SET NEW ENTRIES
6	2460		01/606		INSWP	* IN SYS GEN. TIME
<u> </u>	9461	15517	063764	LDA	SWP2	* DISC CHANNEL
8						The second secon

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FAGE 612	9 #	10
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1462 15928 867/83 LDB SENDE INTERRUPT TABLE LOCATIONS								
0463 15521 017696	415	1462	15520	06/303		I DR	GEND2	* INTERRUPT TABLE LOCALIONS
0464	-1	_		-				•
340 1032 80440 CLA	The co		10.721	01/000		335	THOM	
0466 15323 86/774	1		16536	(° 0 1 4 4 5				
0467 15524 01/086	,							
0468 15525 069311	4			-				
0.469 15526 06/775	4	0467	15524	01/606		JSB	INSWP	* DISC CHANNELS
0.469 15526 06/775	8	0468	15525	063311		LDA	EODSK	. • IN
0.47 15527 01/666	9	0469	15526	06/775				
0471* 0471 15530 06/703	10				· · · · · · · · · · · · · · · · · · ·			
0 C472 15530 067703			19961	11.000		300	******	
0473 15553 000003			15-20	(14.17.7			664	
# 3474 13532 82/548 JMP SWAP2 * SET NEW I/O CHANNELS 0475 15534 156881								The state of the s
0475 15533 044055 ADB .2	13	•		_				*
## 3476 15534 169801	11	8474				JMP	SWAP2	* SET NEW I/O CHANNELS
## G477 15535 023774 XDR RUND1 * G479 15536 033302 IDR GEND1 * OF DEVICES ## G479 15537 178081 STA B:I * ## G482 15540 06/704 ShAP2 LDB SMP2 * SMAPPED ## G482 15542 027546 JMP SMPSC * WITH RUN TIME DISC ## G482 15542 027546 JMP SMPSC * WITH RUN TIME DISC ## G483 15543 022775 XOR RUND2 * ## G484 13544 033303 IOR GEND2 * ## G485 15545 178081 STA B:I * ## G486 G4876 SMPSC LDA BURVN ## G487 15546 064776 SMPSC LDA BURVN ## G488 15547 001200 RAL ## G489 15551 000772 LDB BHMSK YES SET RUN TIME SYS SUBCHNL ## G490 15551 000003 SZB,RSS YES SET RUN TIME SYS SUBCHNL ## G492 15553 064155 LDB BSYSC SET RUN TIME SYS SUBCHNL ## G493 15555 054175 CFB BUDSC C	15	Ø475	15533	044055	•	ADB	.2.	*
## G477 15535 023774 XDR RUND1 * G479 15536 033302 IDR GEND1 * OF DEVICES ## G479 15537 178081 STA B:I * ## G482 15540 06/704 ShAP2 LDB SMP2 * SMAPPED ## G482 15542 027546 JMP SMPSC * WITH RUN TIME DISC ## G482 15542 027546 JMP SMPSC * WITH RUN TIME DISC ## G483 15543 022775 XOR RUND2 * ## G484 13544 033303 IOR GEND2 * ## G485 15545 178081 STA B:I * ## G486 G4876 SMPSC LDA BURVN ## G487 15546 064776 SMPSC LDA BURVN ## G488 15547 001200 RAL ## G489 15551 000772 LDB BHMSK YES SET RUN TIME SYS SUBCHNL ## G490 15551 000003 SZB,RSS YES SET RUN TIME SYS SUBCHNL ## G492 15553 064155 LDB BSYSC SET RUN TIME SYS SUBCHNL ## G493 15555 054175 CFB BUDSC C	16	9476	15534	160001		LDA	E, Y	* IN EQUIPMENT TABLE ENTRIES
GA78	1/	-		_			•	
### \$2479 15537 178001								+ OF BEVICES
0480 15540 06/70 Shap2 LDB SMP2 SMAPPED 0481 15541 0606003 SZB,RSS * 0482 15542 027756 JMP SWPSC WITH RUN TIME DISC 0483 15543 020775 XOR MUND2 * 0485 15545 178801 STA B,1 * 0486* 15545 178801 STA B,1 * 0486* 15545 178801 STA B,1 * 0486* 15540 061772 RAL LDB BMSK SZB,RSS * 0490 15551 0806003 SZB,RSS * 0491 15552 0828004 INA YES! SET S.C. ddd 0491 15552 0828004 INA YES! SET S.C. ddd 0492 15553 064155 STA BSYSC SET RUN TIME SYS SUBCHNL 0494 15555 054175 CPB BUDSC SET RUN TIME SYS SUBCHNL 0494 15555 054175 CPB BUDSC SET RUN TIME SYS SUBCHNL 0496 15557 080400 CLB SET					******			the second secon
## 9481 15541 000003 \$ZB,RSS					6 0 0		•	
### G482 15542 027546	1				SHAPZ			* SWAPPEU
### DA83 15543 023775	7							*
0484 15544 033363 IOR GEND2	27			-		JMP	SWPSC	* WITH RUN TIME DISC
0485 15545 17881 STA B,	13	9483	15543	023775		XOR	RUND2	★
0485 15545 17881 STA B,	74	0484	15544	033363		IOR	GEND2	•
0486* 1467 15546 063776 SWPSU LDA BBRVW 1488 15547 001200 RAL 1489 15559 06772 LDB 8HMSK 1599 15551 000003 SZPLRSS PACK BOOTSTRAPPED UP? 1590 15551 000003 SZPLRSS SZPLRSS SZPLRSS SZPLRSS SZPLRSS SZPLRSS SZPLRSS PACK BOOTSTRAPPED UP? 1590 15553 064155 LDB BSYSC SET RUN TIME SYS SUBCHNL 1590 15556 0701/5 STA BSYSC SET RUN TIME SYS SUBCHNL 1591 15556 0701/5 STA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1591 15550 0701/5 STA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1591 15550 0701/5 STA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1591 15550 0701/5 STA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1591 15550 0701/5 STA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1592 15550 0701/5 STA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1592 15550 0701/5 STA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1592 15550 0701/5 STA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1592 15550 0701/5 STA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1592 15550 0701/5 CPA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1592 15550 0701/5 CPA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1592 15550 0701/5 CPA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1593 15566 0701/5 LDB BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1594 15560 0701/5 CPA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1594 1557 15574 155730 CPA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1594 15575 07000 CPA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1594 15575 070000 CPA BUDSC SYS SET RUN TIME SYS SUBCHNL 1595 15570 070000 CPA BUDSC SYS SET RUN TIME SYS SUBCHNL 1595 15570 070000 CPA BUDSC SYS SET RUN TIME SYS SUBCHNL 1500 15570 15070 070000 CPA BUDSC SYS SC SET RUN TIME SYS SUBCHNL 1500 15570 10000000 CPA BUDSC SYS SET RUN TIME SYS SUBCHNL 1500 15570 10000000 CPA BUDSC SYS SET RUN TIME SYS SUBCHNL 1500 15570 10000000 CPA BUDSC SYS SET RUN TIME SYS SUBCHNL 1500 15570 10000000 CPA BUDSC SYS SET RUN TIME SYS SUBCHNL 1500 15570 100000000 CPA BUDSC SYS SET RUN TIME SYS SUBCHNL 1500 15570 1000000000 CPA BUDSC SYS SET RUN TIME SYS SUBCHNL 1500 15570 10000000000000000000000000000	25 [-		AND THE PROPERTY OF THE PROPER
15546 063776			.0040	.,		917	.,,,	-
15547 001200			15546	06 477 /	Ound!		80044	
0.469					SMASC		BUKYA	nantanana manamatananana kan u manama a ka a ka a ka a manama a ka a k
3498 15551 000003 SZB,RSS - PACK BOTTTRAPPED OF . 10491 15552 002004 INA - YES! SET S.E. 3dd 10492 15553 064155 LDB BSYSC SET RUN TIME SYS SUBCHNL 10493 15554 070155 STA BSYSC SET RUN TIME SYS SUBCHNL 10494 15555 054175 CPB BUDSC 10496 15557 000400 CLB 10496 15557 000400 CLB 10496 15550 070175 CPA BUDSC SYS SC = USER SC? 10496 15550 050175 CPA BUDSC SYS SC = USER SC? 10496 15552 074200 STB BUSCL SET DISCL 10500 15503 047757 ADB 400 10501 15564 074151 STB BUDSC SYSTEM NEXT IRK/SCIK 10502 15505 064175 LDB BUDSC SYSTEM NEXT IRK/SCIK 10504 15503 15566 074161 STB BCDSC SYSTEM 10504 15570 000000 CNFGR NOP 10508 15571 124003 JMP 3B,I GU START DUS SYSTEM 10509 15572 127570 JMP CNFGR,I -YES 10510 15573 037730 CPB BVADR DONE CONFIGURING THIS DRIVER! 10511 15574 165730 LDB DVADR, LOAD INSTRUCTION 10511 15574 165730 LDB DVADR, LOAD INSTRUCTION 10511 15574 165730 LDB DVADR, LOAD INSTRUCTION 10511 15575 002021 SSA,RSS 113 15576 027571 JMP CNFGR+1 * CHECK IF INSTRUCTION 10515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 10516 15601 027571 JMP CNFGR+1 *	. (
0.491 15552 002004	20	L 1469	15550	06/772		LDB	BHMSK	>
## ## ## ## ## ## ## ## ## ## ## ## ##	30	0490	15551	000003		SZB	RSS -	- Pack Boststrapped up :
## ## ## ## ## ## ## ## ## ## ## ## ##								
## C494 1555 0541/5 CPB BUDSC	31	0491	15552	002004	******	INA	•	- YES! SET S.C. Odd
## C494 15555 054175	- 1	-						- YES! SET S.C. Odd
## ## ## ## ## ## ## ## ## ## ## ## ##	32	8492	15553	064155		LDB	BSYSC	
## ## ## ## ## ## ## ## ## ## ## ## ##	32 33	6492 8493	15553 15554	064155 076155		LDB STA	BSYSC BSYSC	
0497 15500 05w175	32 33 34	0492 0493 0494	15553 15554 15555	064155 070155 054175		LDB STA CPB	BSYSC BSYSC BUDSC	
### ### ##############################	32 33 34	8492 8493 6494 8495	15553 15554 15555 15556	064155 070155 054175 070175		LDB STA CPB STA	BSYSC BSYSC BUDSC	
9 8499 15562 074200 STB BDSCL SET DISCL 0 5501 15503 04/757 ADB .400 1 5501 15504 074157 STB BUNIS = SYSTEM NEXT IRK/SCTR 1 5002 15505 064175 LDB BUDSC 2 5003 15566 074161 STB BCDSC 3 5004* 3 5005 15567 124003 JMP 30,T GU START DUS SYSTEM 3 50504* 3 5050 15570 000000 CNFGR NOP 4 5008 15571 05/730 CPB DVAUR DONE CONFIGURING THIS DRIVER? 5 5009 15572 127570 JMP CNFGR,T -YES 5 5010 15573 03/730 ISZ DVADR -NO, INCR TO NEXT INSTRUCTION 5 5011 15573 03/730 LDA DVADR, LOAD INSTRUCTION 5 512 15575 002021 SSA,RSS * 5 13 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION 5 15 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 5 515 15600 0020571 JMP CNFGR+1 *	32 33 34	8492 8493 6494 8495	15553 15554 15555 15556	064155 070155 054175 070175		LDB STA CPB STA	BSYSC BSYSC BUDSC	
9 8499 15562 074200 STB BDSCL SET DISCL 0 5501 15503 04/757 ADB .400 1 5501 15504 074157 STB BUNIS = SYSTEM NEXT IRK/SCTR 1 5002 15505 064175 LDB BUDSC 2 5003 15566 074161 STB BCDSC 3 5004* 3 5005 15567 124003 JMP 30,T GU START DUS SYSTEM 3 50504* 3 5050 15570 000000 CNFGR NOP 4 5008 15571 05/730 CPB DVAUR DONE CONFIGURING THIS DRIVER? 5 5009 15572 127570 JMP CNFGR,T -YES 5 5010 15573 03/730 ISZ DVADR -NO, INCR TO NEXT INSTRUCTION 5 5011 15573 03/730 LDA DVADR, LOAD INSTRUCTION 5 512 15575 002021 SSA,RSS * 5 13 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION 5 15 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 5 515 15600 0020571 JMP CNFGR+1 *	33 34 15	0492 0493 0494 0495 0496	15553 15554 15555 15556 15557	064155 070155 054175 070175 000400		LDB STA CPB STA CLB	BSYSC BSYSC BUDSC BUDSC	SET RUN TIME SYS SUBCHNL
### ### ##############################	33 34 35 36 37	6492 8493 6494 8495 8496 8497	15553 15554 15555 15556 15557 15560	064155 070155 054175 070175 000400 050175		LDB STA CPB STA CLB CPA	BSYSC BSYSC BUDSC BUDSC	SET RUN TIME SYS SUBCHNL SYS SC = USER SC?
### ### ### ### #### #################	32 33 34 15 36 97 8	6492 8493 6494 8495 8496 8497 8498	15553 15554 15555 15556 15557 15560 15561	064155 070155 054175 070175 000400 050175 064115		LDB STA CPB STA CLB CPA LDB	BSYSC BSYSC BUDSC BUDSC BUDSC BSY8F	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES,
0502 15505 064175 LDB BUDSC 0503 15566 074161 STB BCDSC 0504* 0505 15567 124003 JMP 3B, T GO START DUS SYSTEM 0506* D507 15570 D0MM000 CNFGR NOP 0508 15571 05730 CPB DVAUR DONE CONFIGURING THIS DRIVER? 0509 15572 127570 JMP CNFGR, T -YES 0510 15573 037730 ISZ DVAUR -NO, INCR TO NEXT INSTRUCTION 0511 15574 163730 LDA DVAUR, I LOAD INSTRUCTION 0512 15575 002021 SSA, RSS * 13 15576 027571 JMP CNFGR+1 * CHECK F INSTRUCTION 14 15577 013766 AND MASK * IS I/O 0515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 0516 15601 027571 JMP CNFGR+1 *	32 33 34 35 36 37 88	6492 6493 6494 6495 6496 6497 6498 6499	15553 15554 15555 15556 15557 15560 15561 15562	064155 070155 054175 070175 000400 050175 064115 074200		LDB STA CPB STA CLB CPA LDB STB	BSYSC BSYSC BUDSC BUDSC BUDSC BSY8F BDSCL	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES,
### ### ### ### ######################	32 33 34 35 36 37 8 9	6492 6493 6494 6495 6497 6498 6499	15553 15554 15555 15556 15557 15560 15561 15562 15593	064155 070155 054175 070175 000400 050175 064115 074200 047757		LDB STA CPB STA CLB CPA LDB STB ADB	BSYSC BSYSC BUDSC BUDSC BUDSC BSYBF BDSCL	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL
0506 * 0507 15570 000000 CNFGR NOP 0508 15571 05/730 CPB DVADR DONE CONFIGURING THIS DRIVER? 0509 15572 12/570 JMP CNFGR, I -YES 0510 15573 03/730 ISZ DVADR -NO, INCR TO NEXT INSTRUCTION 0511 15574 163730 LDA DVADR, I LOAD INSTRUCTION 0512 15575 002021 SSA, RSS * CHECK IF INSTRUCTION 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION 14 15577 013766 AND MASK IS I/O 0515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 3516 15601 02/571 JMP CNFGR+1 *	32 33 34 35 36 37 8 9 0	0492 0493 0494 0495 0496 0497 0498 0499 0501	15553 15554 15555 15556 15557 15560 15561 15562 15593 15564	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157		LDB STA CPB STA CLB CPA LDB STB ADB STB	BSYSC BSYSC BUDSC BUDSC BUDSC BSYSF BDSCL 400 BUNIS	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH
0506 * 0507 15570 000000 CNFGR NOP 0508 15571 05/730 CPB DVADR DONE CONFIGURING THIS DRIVER? 0509 15572 12/570 JMP CNFGR, I -YES 0510 15573 03/730 ISZ DVADR -NO, INCR TO NEXT INSTRUCTION 0511 15574 163730 LDA DVADR, I LOAD INSTRUCTION 0512 15575 002021 SSA, RSS * CHECK IF INSTRUCTION 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION 14 15577 013766 AND MASK IS I/O 0515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 3516 15601 02/571 JMP CNFGR+1 *	32 33 34 85 86 9 0	0492 0493 0494 0495 0496 0497 0498 0499 0500 0502	15553 15554 15555 15556 15557 15560 15561 15562 15593 15564 15505	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 064175		LDB STA CPB STA CLB CPA LDB STB ADB STB LDB	BSYSC BSYSC BUDSC BUDSC BUDSC BSY8F BDSCL 400 BUNIS BUDSC	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH
0506 * 0507 15570 000000 CNFGR NOP 0508 15571 05/730 CPB DVADR DONE CONFIGURING THIS DRIVER? 0509 15572 12/570 JMP CNFGR, I -YES 0510 15573 03/730 ISZ DVADR -NO, INCR TO NEXT INSTRUCTION 0511 15574 163730 LDA DVADR, I LOAD INSTRUCTION 0512 15575 002021 SSA, RSS * CHECK IF INSTRUCTION 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION 14 15577 013766 AND MASK IS I/O 0515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 3516 15601 02/571 JMP CNFGR+1 *	32 33 34 35 36 37 8 9 0 1 2	0492 0493 0494 0495 0497 0498 0499 0500 0502	15553 15554 15555 15556 15557 15560 15561 15562 15593 15564 15505	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 064175		LDB STA CPB STA CLB CPA LDB STB ADB STB LDB	BSYSC BSYSC BUDSC BUDSC BUDSC BSY8F BDSCL 400 BUNIS BUDSC	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH
0506 * 0507 15570 000000 CNFGR NOP 0508 15571 05/730 CPB DVADR DONE CONFIGURING THIS DRIVER? 0509 15572 12/570 JMP CNFGR, I -YES 0510 15573 03/730 ISZ DVADR -NO, INCR TO NEXT INSTRUCTION 0511 15574 163730 LDA DVADR, I LOAD INSTRUCTION 0512 15575 002021 SSA, RSS * CHECK IF INSTRUCTION 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION 14 15577 013766 AND MASK IS I/O 0515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 3516 15601 02/571 JMP CNFGR+1 *	32 33 34 35 36 37 88 9 0 1 2	0492 0493 0494 0495 0496 0497 0498 0499 0500 0500 0500 0504	15553 15554 15555 15556 15557 15568 15561 15562 15503 15564 15505	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 064175		LDB STA CPB STA CLB CPA LDB STB ADB STB LDB	BSYSC BSYSC BUDSC BUDSC BSYSF BDSCL 400 BUNTS BUDSC BCDSC	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH
0508 15571 05/730 CPB DVADR DONE CONFIGURING THIS DRIVER? 0509 15572 12/570 JMP CNFGR, I -YES 0510 15573 03/730 ISZ DVADR -NO, INCR TO NEXT INSTRUCTION 0511 15574 163730 LDA DVADR, I LOAD INSTRUCTION 0512 15575 002021 SSA, RSS * CHECK IF INSTRUCTION 13 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION 14 15577 013766 AND MASK * IS I/O 0515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 3516 15601 02/571 JMP CNFGR+1 *	32 33 34 35 36 37 88 9 0 1 2	6492 6493 6494 6495 6497 6498 6499 6500	15553 15554 15555 15556 15557 15568 15561 15562 15503 15564 15505	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 064175		LDB STA CPB STA CLB CPA LDB STB ADB STB LDB	BSYSC BSYSC BUDSC BUDSC BSYSF BDSCL 400 BUNTS BUDSC BCDSC	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH
0508 15571 05/730 CPB DVADR DONE CONFIGURING THIS DRIVER? 0509 15572 12/570 JMP CNFGR, I -YES 0510 15573 03/730 ISZ DVADR -NO, INCR TO NEXT INSTRUCTION 0511 15574 163730 LDA DVADR, I LOAD INSTRUCTION 0512 15575 002021 SSA, RSS * CHECK IF INSTRUCTION 13 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION 14 15577 013766 AND MASK * IS I/O 0515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 3516 15601 02/571 JMP CNFGR+1 *	32 33 34 35 36 37 88 9 0 1 2	6492 6493 6494 6495 6497 6498 6499 6500	15553 15554 15555 15556 15557 15568 15561 15562 15503 15564 15505	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 064175		LDB STA CPB STA CLB CPA LDB STB ADB STB LDB	BSYSC BSYSC BUDSC BUDSC BSYSF BDSCL 400 BUNTS BUDSC BCDSC	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH
0509 15572 127570	32 33 34 35 36 37 88 9 0 1 2	0492 0493 0494 0495 0497 0498 0499 0500 0502 0503 0504* 0506*	15553 15554 15555 15556 15557 15560 15561 15562 15593 15564 15505 15566	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 064175 074101	CNFGR	LDB STA CPB STA CLB CPA LDB STB ADB STB LDB	BSYSC BSYSC BUDSC BUDSC BSYSF BDSCL 400 BUNTS BUDSC BCDSC	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH
0510 15573 03/730	32 33 34 15 66 7 0 1 2 3 4 5	0492 0493 0494 0495 0496 0498 0499 0501 0502 0504* 0505 0507	15553 15554 15555 15556 15557 15561 15562 15553 15564 15565 15566	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 074157 074161 124003	CNF GR	LDB STA CPB STA CLB CPA LDB STB ADB STB LDB STB LDB	BSYSC BSYSC BUDSC BUDSC BUDSC BSYBF BDSCL 400 BUNIS BUDSC BCDSC	SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH GO START
0511 15574 163730 LDA DVADR, I LOAD INSTRUCTION 0512 15575 002021 SSA, KSS * 133 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION 14 15577 013766 AND MASK * IS I/O 0515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 3516 15601 02/571 JMP CNFGR+1 *	32 33 34 15 66 7 0 1 2 3 4 5	0492 0493 0494 0495 0496 0497 0498 0499 0501 0502 0504* 0505 0506*	15553 15554 15555 15556 15557 15562 15562 15563 15564 15565 15566 15567	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 064175 074161 124003	C NF GR	LDB STA CPB STA CLB CPA LDB STB LDB STB LDB STB	BSYSC BSYSC BUDSC BUDSC BUDSC BSY8F BDSCL 400 BUNIS BUDSC BCDSC BCDSC	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTK GO START DUSA SYSTEM DONE CONFIGURING THIS DRIVER?
3512 15575 002021 SSA, RSS * (313 15576 02/571 JMP CNFGR+1 * CHECK IF INSTRUCTION (314 15577 013766 AND MASK * IS I/O (3515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) (3516 15601 02/571 JMP CNFGR+1 **	32 33 34 15 66 7 0 1 2 3 4 5	0492 0493 0494 0495 0496 0497 0498 0499 0501 0502 0503 0504* 0506* 0508 0509	15553 15554 15555 15556 15557 15562 15562 15563 15564 15565 15566 15567 15570 15571 15572	064155 070155 054175 070175 000400 050175 064115 074200 04/757 074157 064175 074161 124003	C NF GR	LDB STA CPB STA CLB CPA LDB STB LDB STB LDB STB LDB STB	BSYSC BSYSC BUDSC BUDSC BUDSC BSY8F BDSCL 400 BUNIS BUDSC BCDSC BCDSC BCDSC	SET RUN TIME SYS SUBCHNL SYS SC = USER SC? -YES, SET DISCL = SYSIEM NEXT IRK/SCIR GO START DONE CONFIGURING THIS DRIVER? -YES
13 15576 02/571	32 33 34 15 66 7 0 1 2 3 4 5	0492 0493 0494 0495 0496 0497 0498 0499 0501 0502 0504* 0507 0508 0509 0510	15553 15554 15555 15556 15557 15562 15562 15563 15564 15565 15566 15567 15576 15577 15572 15573	064155 070155 054175 070175 000400 050175 064115 074200 04/757 074157 064175 074101 124003 00000 05/730 12/570 03/730	C NF GR	LDB STA CPB STA CLB CPA LDB STB LDB STB LDB STB JMP CPB JMP ISZ	BSYSC BSYSC BUDSC BUDSC BUDSC BSY8F BDSCL 400 BUNIS BUDSC BCDSC BCDSC BCDSC	SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH DONE CONFIGURING THIS DRIVER? -YES -NO, INCR TO NEXT INSTRUCTION
14 15577 013766 AND MASK * IS I/O 5515 15600 002002 SZA * FOR DEVICE (EXCLUDING DMA) 3516 15601 02/571 JMP CNFGR+1 *	32 33 34 15 66 7 0 1 2 3 4 5	0492 0493 0494 0495 0497 0498 0499 0503 0504* 0506* 0508 0509 0510 0511	15553 15554 15555 15556 15556 15561 15562 15593 15564 15505 15566 15567 15570 15571 15572 15573 15573	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 064175 074101 124003 00000 057730 127570 037730 163730	C NF GR	LDB STA CPB STA CLB CPA LDB STB ADB STB LDB STB STB LDB STB STB STB STB STB STB STB STB STB ST	BSYSC BSYSC BUDSC BUDSC BUDSC BSYBF BDSCL .400 BUNIS BUDSC BCDSC BCDSC BCDSC BCDSC BCDSC	SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTK GO START DOS DONE CONFIGURING THIS DRIVER? -YES -NO, INCR TO NEXT INSTRUCTION LOAD INSTRUCTION
D515 15600 002002 SZA + FOR DEVICE (EXCLUDING BMA) D516 15601 02/5/1 JMP CNFGR+1 +	32 33 34 15 66 7 0 1 2 3 4 5	0492 0493 0494 0495 0496 0497 0498 0499 0501 0502 0503 0504* 0507 0508 0509 0510 0511 0512	15553 15554 15555 15556 15556 15561 15562 15563 15564 15565 15566 15567 15572 15573 15574 15574	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 074157 074161 124003 00000 057730 127570 037730 163730 002021	CNF GR	LDB STA CPB STA CLB CPA LDB STB ADB STB LDB STB STB LDB STB STB STB STB STB STB STB STB STB ST	BSYSC BSYSC BUDSC BUDSC BUDSC BSYBF BDSCL .400 BUNIS BUDSC BCDSC B	SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH DONE CONFIGURING THIS DRIVER? -YES -NO, INCR TO NEXT INSTRUCTION LOAD INSTRUCTION
D515 15600 002002 SZA + FOR DEVICE (EXCLUDING BMA) D516 15601 02/5/1 JMP CNFGR+1 +	32 33 34 15 66 7 0 1 2 3 4 5	0492 0493 0494 0495 0496 0497 0498 0499 0501 0502 0503 0504* 0507 0508 0509 0510 0511 0512	15553 15554 15555 15556 15556 15561 15562 15563 15564 15565 15566 15567 15577 15572 15573 15574 15575 15576	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 074157 074161 124003 00000 057730 127570 037730 163730 002021 027571	CNF GR	LDB STA CPB STA CLB CPA LDB STB ADB STB LDB STB STB LDB STB STB STB STB STB STB STB STB STB ST	BSYSC BSYSC BUDSC BUDSC BUDSC BSYBF BDSCL .400 BUNIS BUDSC BCDSC B	SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTH DONE CONFIGURING THIS DRIVER? -YES -NO, INCR TO NEXT INSTRUCTION LOAD INSTRUCTION
3516 15601 02/571 JMP CNFGR+1 *	32 33 34 15 66 7 0 1 2 3 4 5	0492 0493 0494 0495 0496 0497 0498 0499 0501 0502 0503 0504* 0506* 0508 0510 0511 0512	15553 15554 15555 15556 15556 15561 15562 15563 15564 15565 15566 15567 15577 15572 15573 15574 15575 15576	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 074157 074161 124003 00000 057730 127570 037730 163730 002021 027571	CNF GR	LDB STA CPB STA CLB CPA LDB STB STB STB STB STB STB STB STB STB ST	BSYSC BSYSC BUDSC BUDSC BUDSC BSYBF BDSCL 400 BUNIS BUDSC BCDSC 30,1 DVADR DVADR DVADR,1 NSS CNFGR+1	SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTK GO START DOS SYSTEM DONE CONFIGURING THIS DRIVER? -YES -NO, INCR TO NEXT INSTRUCTION CHECK IF INSTRUCTION
	32 33 34 15 66 7 0 1 2 3 4 5	0492 0493 0494 0495 0496 0497 0498 0499 0501 0502 0503 0504* 0506* 0508 0509 0510 0511 0512	15553 15554 15555 15556 15556 15562 15562 15563 15564 15565 15566 15577 15573 15574 15573 15574 15575 15576 15576 15577	064155 076155 076155 054175 006400 0564115 074200 047757 074157 074157 074157 074161 124003 00000 057730 127570 037730 163730 002021 027571 013766	CNFGR	LDB STA CPB STA CLB CPA LDB STB STB STB STB STB STB STB STB STB ST	BSYSC BSYSC BUDSC BUDSC BUDSC BSYBF BDSCL 400 BUNIS BUDSC BCDSC 30,1 DVADR DVADR DVADR,1 NSS CNFGR+1	SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTK GO START DUS SYSTEM DONE CONFIGURING THIS DRIVER? -YES -NO, INCR TO NEXT INSTRUCTION LOAD INSTRUCTION * CHECK IF INSTRUCTION * IS I/O
-011 1000 FAM THEN 1 -1F21	32 33 34 15 66 7 0 1 2 3 4 5	0493 0494 0495 0496 0497 0498 0499 0503 0504* 0505 0506* 0507 0508 0511 0512 0511 0511 0511	15553 15554 15555 15556 15556 15562 15562 15563 15564 15565 15566 15577 15572 15573 15574 15575 15576 15577 15676	064155 070155 054175 070175 000400 050175 064115 074200 047757 074157 074157 074151 124003 000000 057730 127570 037730 163730 163730 002021 013766 002002	CNFGR	LDB STA CPB STA CLB CPA LDB STB STB STB STB STB STB STB STB STB ST	BSYSC BSYSC BUDSC BUDSC BUDSC BSY8F BDSCL 400 BUNIS BUDSC BCDSC BCDSC BCDSC TVADR CNFGR, T DVADR DVADR, I MSS CNFGH+1 MASK	SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTK DONE CONFIGURING THIS DRIVER? -YES -NO, INCR TO NEXT INSTRUCTION LOAD INSTRUCTION * CHECK IF INSTRUCTION * IS I/O * FOR DEVICE (EXCLUDING DMA)
	32 33 34 15 66 7 0 1 2 3 4 5	0493 0493 0494 0495 0496 0497 0498 0499 0503 0504* 0506* 0506* 0511 0512 0513 0511 0512	15553 15554 15555 15556 15556 15562 15562 15562 15564 15565 15566 15576 15571 15572 15573 15574 15575 15576 15576 15576 15576 15577 15600 15601	064155 070155 054175 070175 000400 050175 064115 074200 04/757 074157 064175 074161 124003 000000 05/730 12/570 03/730 163730 163730 163730 102/571 013766 002002 02/571	CNFGR	LDB STA CPB STA CLB CPA LDB STB STB STB STB STB STB STB STB STB ST	BSYSC BSYSC BUDSC BUDSC BUDSC BSY8F BDSCL 400 BUNIS BUDSC BCDSC BCDSC TVADR CNFGR, T DVADR LVADR, I MSS CNFGR+1 MASK	SYS SC = USER SC? -YES, SET DISCL = SYSTEM NEXT TRK/SCTK DONE CONFIGURING THIS DRIVER? -YES -NO, INCR TO NEXT INSTRUCTION LOAD INSTRUCTION * CHECK IF INSTRUCTION * IS I/O * FOR DEVICE (EXCLUDING DMA)

r	Δ	GF	M 1	30	# 1	Ø

11						
•	518		043773		CHANL	CONFIGURE INSTRUCTION
1			173730		DVADR, I	AND STORE
	nosa	13505	027571	JMP	CNFGR+1	
1,	0522	15696	600000	INSWP NOP		•
1	0523		044045		.6N	* THIS SUBROUTINE
и	0524		044201		BINTE	* IS USED TO SWAP
9	D525		170001		B, I	* INTERRUPT TABLE ENTRIES
10	0525		12/606		INSWP, I	
11	55274			<u> </u>		
12	0528	15613	90000A	PLOAD NOP		DISC READ ROUTINE
13	0529	15614	16/762	LDB	SPCAD, I	GET LUW CORE ADDRESS
14	0530	15615	03/762	182	SPCAD	INCH CURRENT SPBUF ADDRESS
15	9531	15616	163762	LDA	SPCAD, I	GET HIGH CORE ADDRESS
16	0532	15617	93/762	152	SPCAD	INCR CURRENT SPBUF ADDRESS
17	Ø533	15620	003304	CMA,	CCE, INA	COMPLEMENT, SET DIRECTION BILL
81	9534	15021	040001	ADA	В	SET A = TOTAL WORD COUNT
19	0535	15622	005225	RBL,	ERB	SET DIRECTION BIT IN CURE ADDR
70	9536	15623	100762	CLC		
7)	9537		100602	OTB	2	SET MEMORY ADDRESS REGISTER
77	ລິວ38		16/762	LDB	SPCAL, I	
73	0539	15626	03/762	182	SPCAD	INCR CURRENT SPBUF ADDRESS
24	3540*					
75	0541		002021	-		SKIP - MORE SECTORS TO LOAD
?6	3542		12/613		PLOAD,I	**
11 <u>.</u>	1543		045754		P.128	ADJUST FOR NEXT COUNT
(1544		073761		RECNT	SET REMAINING COUNT
79	0545		002020	SSA		SKIP - LESS THAN 128 WURUS
30	9546		002400	CLA		
31	0547		043753		N.128	SET A . CURRENT SECTOR COUNT
4	9548		102762	STC		
33	0549		105905	OTA		SET WURD COUNT REGISTER
34	0550		060001	LDA		LOAD CURRENT DISK ADRS INTO A,
35	0551		001767		CLE, ALF	
36	0552		013752		M.377	AND ISOLATE TRK#
31	0553		102600	LSKA OTA		OUTPUT TRK#
38	0554		103700	SIC		TO DATA CHANNEL
39	Ø555		063755		SKCMD	LOAD SEEK COMMAND
40 41	0556		033776		BDRV#	INCLUDE DRIVE #
42	0557		100761	CLC		OUTBUT CEEK (AUDOSCS CHAO
*' 43 [0558		102601	COTA		TO COMMAND CHANNEL
11	8559 8560		103701	SFS		CHECK DATA CHNL FLAG,
45	9561	-	02/652	JMP		LUOP UNTIL SET
16	Ø562		000001	LDA		LOAD CURRENT DISK ADDRESS INTO A
1/	8553		013752		M.377	ISOLATE SECTOR#
18	U 564		043751		#SPTN	ADD NEG #SCTRS/TRK
19	D565		002021	SSA,		CHECK IF SCTR# > #SCTRS/TKK
,6	2566		033757		.400	-YES, SET LOWER HEAD#
51	9367		002020	SSA		rode am remain neutha
57	0568		043747		#SPTK	-NU, ADD #SCIRS/TRK BACK IN
1	5.19		033772		BHMSK	INCLUDE SYS HEAD# MASK
. (570		102600	OTA		UUTPUT HEAD/SECTUR
: [0571		103760	(STC		TO DATA CHANNEL
6	2572		102301	SFS		CHECK CHND CHNL FLAG, WAIT FOR
./	2073	15667	02/666	JMP		WAIT UNTIL SET / SEEK
·s		eranna angula retrorretta - retritoria		- Employee William Administration in the control of		A CONTRACTOR OF THE CONTRACTOR

(B)	<i>-</i> 0574	15670	01/714	JS	B BSTAT	
··,	Ø575	15671	063756	ĹĪ	A RDCMD	LUAD READ COMMAND
	3576		033776		R BURV#	INCLUDE DRIVE#
	0577		102601	01	The second second	OUTPHT COMMAND FOR READ
	0578		103700		C e,c	
	6379		190701		CI	
	U580		103706		C 6,C	INITITATE DMA
	9581		103761		C 1,C	INITIATE DATA TRANSFER
	D582		102301		S 1	CHECK CHNU CHNL FLAG,
	მაგ <u>პ</u>		02/700		1P ==1	WAIT UNTIL SET
	6584		01/714		B BSTAL	-
	9585		060001		A 8	LOAD CURRENT DISC ADDRESS INTO A
	0386	15704			D M.377	AND ISOLATE
	0587		053750		A #SPCY	CHECK IF LAST SECTOR ON CYL
	0588	15786	_	RS		-YES
	0589		012465		A, INA, KSS	i - hU
	9596		063700	LD	A #MASK	
	0591	15711	044000	AI	18 A	INCH TO NEXT DISC ADDRESS (TRACK)
	Ø592	15712	963761	LD	A RECNT	GET REMAINING COUNT
	0593		02/627		P SLOAD	LUAD NEXT
	3504+					SECTOR
	2595	15714	000000	ESTAT NO	P	
	0596		103700		C 0,C	
	Ø597		063776		A BURV#	
	0598		100701			OUTPUT STATUS
			-	CL		STATUS STATUS
	1599		102661	/ 01		
	บองหล	15721	103701		C 1,C	SUBRTN
	Dów1		102300		S Ø	
	0682		02/722		P *-1	
	9693		102500		A 0 -	GET STATUS
	9694	15725	000010	SL		
				1.5 1	T 318	
	0605	15726				
_	0666	15726	192031		PESTALL	
	0666 0667*	15726				DATA AREA
	0666	15726				DATA AREA
	0666 0667*	15726 15727		11		
	D606 D608*	15726 15727 15730	12/714	DVADR DE	F DSKA-1	
	D606 D607* D608* 0609 9610	15726 15727 15730	015642	11	F DSKA-1	CONTAINS 4 Entries
	D606 D607* D608* 9609 9610 9611*	15726 15727 15730 15731	015642	DVADR DE BEFDY DE	F DSKA-1 F DSKY	
	0606 0607* 0608* 9609 9610 9611*	15726 15727 15730 15731 15732	015642 015724	DVADR DE DEFDY DE	F DSKA-1 F DSKY	CONTAINS 4 Entries
	0606 0608* 0609 0610 0611* 0612 0613	15726 15727 15730 15731 15732	015642 015724	DVADR DE DEFDY DE	F DSKA-1 F DSKY	CONTAINS 4 Entries (3 words Each) for
	D606 D607* D608* D609 D610 D611* D612 D613 D614*	15726 15727 15730 15731 15732 15733	015642 015724 015733 000000	DVADR DE DEFDY DE BS	F DSKA-1 F DSKY	CONTAINS 4 Entries (3 words Each) for loading CRS.
	D606 D607* D608* 9609 9610 9611* D612 D613 D614*	15726 15727 15730 15731 15732 15733	015642 015724 015733 000000	DVADR DE LEFDY DE ASPBF DE BS	F DSKA-1 F DSKY F ++1 S 12	CONTAINS 4 Entries (3 words Each) for bading CRS. #SCTR/TRK (Physical)
	D606 D607* D608* 9609 9610 9611* D612 D613 D614* D616	15726 15727 15730 15731 15732 15733 15747 15750	015642 015724 015733 000000 000000	DVADR DE BEFDY DE BS	F DSKA-1 F DSKY F *+1 S 12 P	CONTAINS 4 Entries (3 words Each) for bording CRS. #SCTR/TRK (physical) #SCTR/CYL - 1
	D606 D607* D608* 9609 9610 9611* D612 D613 D614* D616 9617	15726 15727 15730 15731 15732 15733 15747 15750 15751	015642 015724 015733 000000 000000 000000	DVADR DE LEFDY DE ASPBF DE BS	F DSKA-1 F DSKY F ++1 S 12 P P	CONTAINS 4 Entries (3 words Each) for bading CRS. #SCTR/TRK (Physical)
	D606 D607* D608* D609 D610 D611* D612 D613 D614* D616 D616	15726 15727 15730 15731 15732 15733 15747 15750 15751 15752	015642 015724 015733 000000 000000 000000 000000	DVADR DE DEFDY DE ASPBF DE BS #SPIK NO #SPCY NO #SPIN NO F.3// OC	F DSKA-1 F DSKY F *+1 S 12 P P P P T 3/7	CONTAINS 4 Entries (3 words Each) for bading CRS. #SCTR/TRK (physical) #SCTR/CYL - 1
	D606 D607* D608* D609 D610 D611* D612 D613 D614* D616 D616 D618 D618	15726 15727 15730 15731 15732 15733 15747 15750 15751 15752 15753	015642 015724 015733 000000 000000 000000 000000 000000 0000	JADR DE BEFDY DE BS	F DSKA-1 F DSKY F ++1 S 12 P P P C -128	CONTAINS 4 Entries (3 words Each) for bading CRS. #SCTR/TRK (Physical) #SCTR/CYL - 1
	D606 D607* D608* D609 D610 D611* D612 D613 D614* D616 D616 D618 D618 D618 D619 D620	15726 15727 15730 15731 15732 15733 15747 15750 15751 15752 15753 15754	015642 015724 015733 200000 000000 000000 000000 000000 000200	JYADR DE BEFDY DE ASPBF DE BS #SPTK NO	F DSKA-1 F DSKY F *+1 S 12 P P P C -128 C 128	CONTAINS 4 Entries (3 words Each) for bading CRS. #SCTR/TRK (physical) #SCTR/CYL - 1 NEG # SCTRS/TRK (physical)
	D606 D607* D608* 9609 9610 9611* D612 D613 D614* D616 9617 D618 D618 D620 D621	15726 15730 15731 15732 15733 15747 15750 15751 15752 15753 15754 15755	015642 015724 015733 000000 000000 000000 000000 000377 17/600 000200 030000	JADR DE EEFDY DE ASPBF DE BS #SPIK NO #SPCY NO #SPIN NO P.377 OC N.128 DE P.128 DE SKCMD OC SKCMD OC	F DSKA-1 F DSKY F *+1 S 12 P P P C -128 C 128 T 030000	CONTAINS 4 Entries (3 words Each) for loading CRS. #SCTR/TRK (Physical) #SCTR/CYL - 1 NEG # SCTRS/TRK (physical) SEEK COMMAND
	D606 D607* D608* D609 D610 D611* D612 D613 D614* D616 D616 D616 D617 D618 C620 D621 D622	15726 15727 15730 15731 15732 15733 15747 15750 15751 15753 15754 15755 15756	015642 015724 015733 000000 000000 000000 000000 000000 0000	#SPIK NO #SPCY NO #SPTN NO #SPTN NO #SPTN NO P.377 OC N.128 DE P.128 DE SKCMD OC	F DSKA-1 F DSKY F *+1 S 12 P P P C -128 C 128	CONTAINS 4 Entries (3 words Each) for bading CRS. #SCTR/TRK (physical) #SCTR/CYL - 1 NEG # SCTRS/TRK (physical)
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PAGE 0132 #10 15303 GEND2 EQU SPBF+3 630 ECCUK EQU SPBF+4 0031 15394 0632 15305 ECPCU EQU SP8f+5 EQU SPB++8 1033 15310 CNTH EGDSK EQU SPBF+9 3634 15311 0635* EQU 538 9636 00053 0637 00045 EQU #-6 . 6 N . 2N 0638 16000 EQU #-2 00052 0639 . 1 N EQU #-1 . 2 0640 00055 EQU #+2 8641 00056 .3 EQU #+3 8642 00000 .5 EQU #+5 0643 69696 .170 EQU #+11 2644 00071 M.37 EQU #+14 00072 0645 EQU #+15 r.77 PAGE BASE 9646 × 0647 00100 EQU 1008 COMMUNICATION BSYBF EQU #+13 0648 00115 AREA LOCATIONS 8649 00117 BEOIS EQU #+15 0650 00120 BEGT# EQU #+16 6651 00154 BESCU EQU #+44 3652 00135 BSYSL EQU #+45 9653 BUNTS EQU #+47 00157 0354 9916B USNTS EQU #+48 9655 BCDSC EQU #+49 90161 056 00175 BLDSC EQU #+61 D657 0020K BESCL EQU ++64 00201 **U658** BINIB EQU #+65 0659* 0060 15763 000000 SHPI NOP 0651 NOP 15764 000000 SHP2 OCT 31 0062 15765 000031 LISK 0663 15766 070036 MASK. OCT 070036 0064 15767 17/740 M.740 OCT 177740 0605* 2666 15777 EQU 157778 END S667 15772 BHMSK EQU END-5 3668 15773 CHANL EQU END-4 15774 D 69 RUNDI EQU END-3 0670 15775 KUND2 EQU END-2 2671 15776 BDRV# EQU END-1 96/2* ORG 157778 0073 15777 15777 177733 3674 ABS ASPEF-+ 0675*

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NU ERRORS*

HALTS IN DOS-M DURING SYSTEM OPERATION

T-REGISTER Contents	PROGRAM LOCATION	CAUSE OF HALT	RECOVERY ACTION		
162 696	\$EX18	System was unable to use Interrupt Table to match channel # in Equipment Table for given I/O request.	CHECK INTERRUPT TABLE ENTRIES AND PATCH IF POSSIBLE. REGENERATE CORRECT SYSTEM. IRRECOV- ERABLE HALT.		
192994	DISCM	POWER UP OR DOWN WITH DOS-M System in core with P.F. option present	BOOTSTRAP SYSTEM BACK UP FROM DISC AND RESTART.		
102011	\$EX2Ø	DISC PARITY ERROR. HALT OCCURS AFTER PRINTING MESSAGES ON SYSTEM TTY TO INFORM OPERATOR WHERE ERROR OCCURRED. (TRACK #, SECTOR #, AND SUB- CHANNEL #).	TURN ON "DISC PROTECT OVERRIDE SWITCH" AND PRESS "RUN" FOR SYSTEM TO ASSIGN NEXT SPARE TRACK.		
102077	\$EX20	FOLLOWS MESSAGE TELLING OPERATOR TO TURN OFF "DISC PROTECT OVER-RIDE SWITCH" AFTER SPARE TRACK ASSIGNMENT.	TURN OFF "DISC PROTECT OVERRIDE SWITCH" AND PRESS "Run". SYSTEM ABORTS JOB THAT WAS RUNNING.		
102031	DVR31	Trying to write on cylinder that has been flagged protected with "Dics Protect Override Switch" OFF.	Press "Run" to exit driver with no action taken on Disc.		

DISC DUMP FOR DOSM GENERATION EXAMPLE

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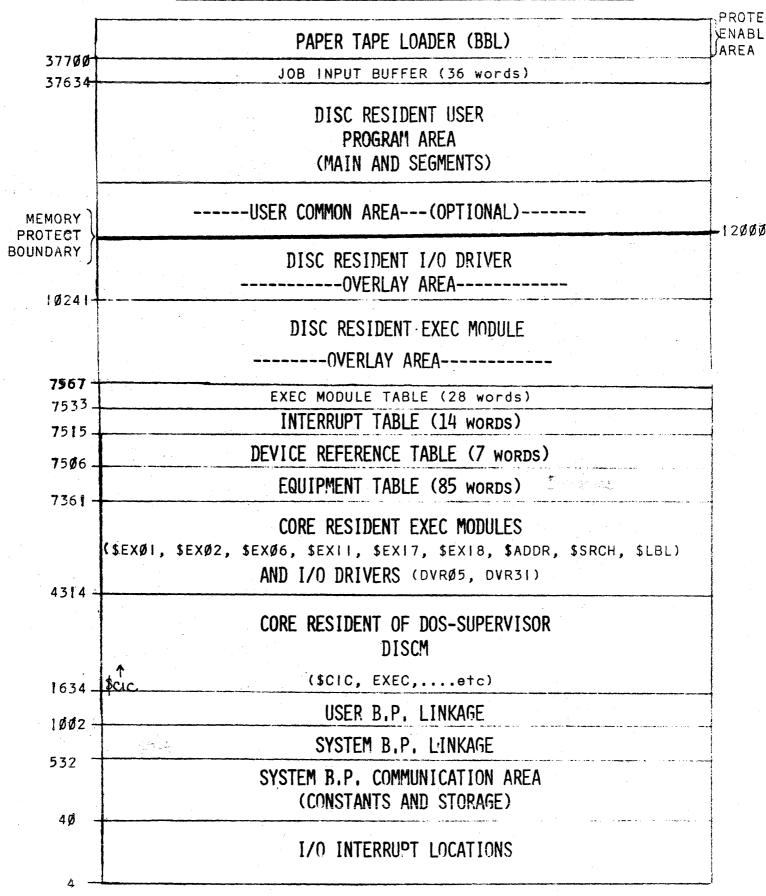
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030410 021004 000003 042126 051062 031010 021007 000007 046117 042122 020010 021016 000061 045117 041120 020010 022017 000101 040523 046502 046010 023410 000050 046523 046504 020010 024400 0000040 040523 046403 020010 024404 000000 040523 046405 040523 046405 020010 024404 020010 024410 000000 040523 046405 020010 024410 020010 025000 000010 024404 020010 025010 025000 000010 025000 000010 025000 000010 025000 000010 025000 000010 025000 000010 025000 000010 025000 000010 025000 000010 025010 026010 0	
046117 042122 028010 021816 080061 045117 041120 020010 022017 000101 040023 046502 046010 023410 000050 040523 046504 020010 024400 040523 046463 020010 024404 040004 040523 046464 020010 024410 000060 040523 046465 020010 024416 000012 043122 052116 020010 025000 040010 043124 047061 023010 025010 020060 043124 047062 020010 026010 000055 043124 047063 020052 17772 02002 044 047064 020010 020037 040523 046461 020010 030406 000014 040523 046462 020010 030422 00013 05151 047461 020011 031005 040013 04101 04101 04101 047461	4
P22017 P00101 840523 P46502 R46010 P23410 800050 P40523 P046504 P20010 P24400 P00004 P40523 P46463 P20010 P24404 P000004 P40523 P46464 P20010 P24410 P00000 P40523 P46465 P20010 P24410 P00000 P40523 P46465 P00010 P25010 P20010 P25010 P25010 P20010 P25010	, v
### ### ##############################	orderik V ales i da. Britania
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043124 047061 029010 025010 000060 043124 047062 020010 026010 000055 043124 047063 020010 027005 000052 17772 12.2	1
026010 000055 043124 047063 020010 027005 000052 177722 23.2 054 943124 047064 020010 027407 000037 040523 046461 020010 030406 000014 040523 046462 020010 030422 000013 051511 047461 020011 031005 000005 041101 051503 030411 031012 000011 041117 047524 020011 031023 040025 043124 047110 020011 031420 000001 042517 043040 020003 031421 000001 012000 012013 001002 001002 012013 043123 050103	1
13.2 14.1 DIRECTORY ENTRY THE SECTOR 16.4 14.31.24 04.70.64 02.00.10 02.74.07 09.00.37 04.05.23 04.64.61 02.00.10 16.3 14.0.6 00.00.14 04.05.23 04.64.62 02.00.10 03.04.22 00.00.13 05.15.11 16.4 14.74.61 02.00.11 03.10.05 00.00.05 04.11.01 05.15.03 03.04.11 03.10.12 16.4 14.74.61 02.00.11 03.10.05 00.00.05 04.11.01 05.15.03 03.04.11 03.10.12 16.4 14.74.61 02.00.11 03.10.12 04.3 10.20 03.04.11 03.10.12 16.4 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14	
Q6A Q4A Q4A <td></td>	
030405 000014 040523 046462 020010 030422 000013 051511 447461 020011 031005 0000005 041101 051503 030411 031012 400011 041117 047524 020011 031023 040025 043124 047110 020011 031420 000001 042517 043040 020003 031421 000001 012000 012013 001002 001002 012000 012013 043123 050103	(数) (数
#47461 #29011 #31005 #400005 #41101 #51503 #30411 #31012 ####################################	
000011 041117 047524 020011 031023 040025 043124 047110 020011 031420 000001 042817 043040 020003 031421 000001 012000 012013 001002 001002 012000 012013 043123 050103	Î
020011 031420 000001 042517 045040 020003 031421 000001 012000 012013 001002 001002 012000 012013 043123 050103	
012000 012013 001002 001002 012000 012013 043123 050163	
。	L
	
@12013 051127 044516 042093 031423 000001 012000 912013	•

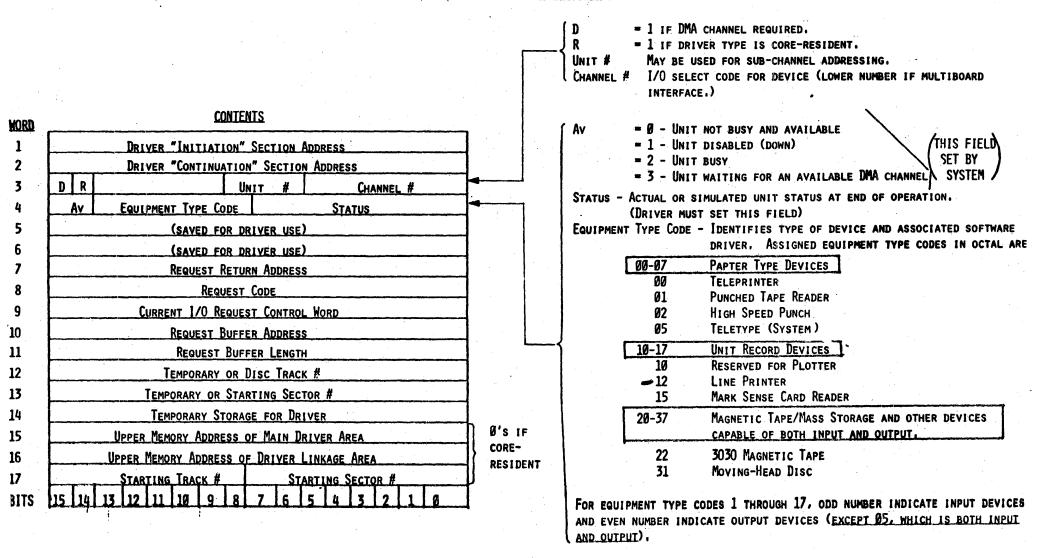
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_	يع سر	vo of D	RECTORY						DIRECTORY
	PAIANS	001002	012000	012013	942956	9399 6 9	051411	931424	The state of the s
	200103	952123	951124	951411	033017	P00006	M52123	951124	
	751619	033025	969995	8415540	942591	851612	833492	000001	7 END
	A10000	usautu	624468	REPERA	040523	946463	928819	924494°	
	000001 020010	024416	945454 999912		204416	9000000 920019	025000	04946 5	
	043:24	947941	020012	043122 025010	952116 999969	P43124	047062	929919	
	026010	000055	943124	047063	929919	027005	908952	(17777)	. 1
11,1					NEW PARTY			STATES -	
MAR	998257	102004	404457	812128	950052	026009	400050	048254	
*****	92680F		854153	133248	872890	000263	616000	009237	
	916999	000155	002001	936999	000257	132120	036000	000257	
	162300	999257	402021	926999	000121	968255	132132	012900	
	000271	972999	944269	060151	072000	000263	016000	000237	
1/3/2	#13320	060047	878888	000261	#62600	900207	A72060	000202	
	935000	959136	#17674	P09974	130912	P62988	000269	016012	
	160001	010074	932000	900251	013312	170001	616664	000217	
	162000	000260	915912	016000	999217	120112	162000	030560	
	991265	150000	Ø15012	015000	999517	133320	936 999	993368	
	936909	44844	026994	000103	015000	996563	002021	133212	
	026 0 00	000070	936999	000257	162000	900257	002021	826988	
	P00134	Ø13212	060153	B1280B	000271	972999	999269	060147	
	<u> </u>		43509 0		944359	900132	132000	016000	
	000237	016000	999155	002400	070245	979113	013000	079471	1_
99 4	arebada.	999284	916997	000141	982499	001000	064530	996402	
22,4								0.04/21/0	•
ARK			974262	010100	007021	659864	007400	026010	REST
•	000000	013332	968843	A7288A	999261	062000 16000	010207 018074	072040 032040	o £
	*80262 ***********************************	170901	133132	016000	#15#12 ###17	162444	999269	016412	TRACK
	916889	000217	936999	000260	035400	060140	944452	0091/5	
	133212	436499	900261	026000	989171	016000	944492	002021	22
	926999	999156	121000	126684	889155	000000	016002	000002	- 18
	888888	000312	998333	177678	P00213	026011	862040	000260	RESERVED
<i></i>	913212	803084	542000		190000	P88283	000000	0620 0 0	THE USER
	000250	132132	172000	090262	03 6000	000262	150001	172300	
	999262	036000	000252	991329	995994	160001	172000	000262	DIRECTORY
	936999	000262	006004	012000	160001	172000	000262	014700	ENTRIES
	969116	153975	900235	132188	036000	090262	126000	000217	• 1
	999999	016002	000 003	008830	001106	177777	999999	000247	
42	#26#11	120000	126900	.000237	#20040	020000	000000	011400	
	Ø6Ø114	102330	994256	929999	999253	000000	999999	000000	•
12,5					•				;
967	NODDEN	ଜନ୍ଦ୍ରପ୍ର	agaaaa	177765	000200	949270	000445	ENSPEN	
	000411	177770	002000	120000	120000	000000	888888	BANGAR	j
file file	MUNUMA	aaaana	999999	999999	888888	000000	888888	000000	
	adaaba	994999	980098	800000	099999	000000	000000	aaaaya	
	030000	999999	700090	99999	PORROR	999999	PARADA	000000	
	DUNDADA	030000	900000	999999	000000	999999	######################################	иродия Стана	,
8 -	MANANA	COCCE	ABUAAA	99999	999999	NANANA	AGNAGA	GUERER	
	000000	000000	MANAMA	999998	888888	998998	800000	000000	
1921	988888	000000	966666 86666	55555 	*******	090999	000000 000000	800000	
	000000	909999 909999	44444	900000	999999	489888	000000	0000000	
(4000000	2300C3	340 608	98888 9	999999	000000	9000000 900000	9999999 9999999	
2	GORGEO		300000	000000 0	000000	NAGANA	0000000 000000	0000000 0000000	· ·
	000000	99999	aaaaaa	200000	88888	000000	aaaaaa	888888	
	000000	200000	900000	MADAR	98888 9	000000	000000	000000	
4 74	989980	99999	AGRAGA	88888	000000	00000	989999	000000	
	20120	91 EP 81 31 T 81			***************	**************************************	X1 42 X2 43 43 43	EAST TO BUILD	

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CORE MAP FOR DOSM SYSTEM GENERATION EXAMPLE (16K)



EQUIPMENT TABLE ENTRY FORMAT



AVAILABLE FOR DRIVER

TEMPORARY

DEVICE REFERENCE TABLE FORMAT

Each entry in this table requires only one word in memory. The value of each entry (decimal number, 1-63) associates a <u>Logical Unit Number</u> with an <u>Equipment Table Entry</u> for the System in the following manner:

SEQUENCE IN MEMORY TABLE	LOGICAL UNIT #	FUNCTION
1 2 3 4 5 6 7-63	1 2 3 4 5 6 7-63	System Teleprinter User Mass Storage System Mass Storage Standard Punch Device Standard Input Device Standard List Device Any Device

INTERRUPT TABLE FORMAT

EACH ENTRY IN THIS TABLE REQUIRES ONLY ONE WORD IN MEMORY AND IS ASSOCIATED WITH EACH I/O CHANNEL IN THE COMPUTER (STARTING WITH LOCATION 6) WHICH CAN CAUSE AN INTERRUPT. EACH LOCATION IN THIS TABLE HAS AN ENTRY VALUE. MEMORY, LOCATIONS ARE ASSOCIATED IN CONSECUTIVE INCREASING ORDER WITH AN I/O CHANNEL. TABLE VALUES ARE ZERO FOR AN I/O CHANNEL NOT REQUIRING INTERRUPT. I/O CHANNELS REQUIRING INTERRUPT CONTAIN THE START ADDRESS OF THE EQUIPMENT TABLE ENTRY OF THE ASSOCIATED DEVICE.

EXEC MODULE DOUBLET TABLE FORMAT

(TWO WORDS PER DISC RESIDENT EXEC MODULE)

		·
WORD	# SECTORS - 1	EXEC MODULE ID #
#1	15-11	10-0
		· .
WORD #2	START TRACK #	START SECTOR #
·· .	15-8	7-0

SYSTEM DIRECTORY LISTING FOR DOSM GENERATION EXAMPLE

	NAME SUBCH		SCTRS	DISC	ORG	PROG L	IMITS	B•P• 1	IMITS	ENTRY	LIBR.	P-BIT
									~~~~	~== .=		
	\$EX03		0002				07624		00733			
	\$EX04		0004	T001			10176		00741	07567		
	SEX05		0002	T001			07745		00733			
	\$EX07		0002				07746		00733			
	\$EX08	XS	0002				07732		00733		07732	
	\$EX09	XS	0003	T001	Ø23	07567	10142	00732	00763	07567	10142	
	\$EX10	XS	8008	T002	902	07567	07745	00732	00733	07567	07745	
	SEX12	XS	0002	TØØ2	004	07567	07761	00732	00733	07567	07761	
	\$EX13	XS	0004	T002	006	07567	10223	00732	00754	07567	10223	
	<b>SEX14</b>	XS	0004	T002	010	07567	10241	00732	00751	07567	10241	
	3EX15	XS	0003				10153	00732	00763	Ø7567	1Ø153	
	SEX16	XS	0002				07722		00733		<b>077</b> 22	
	<b>SEX19</b>		0003				10107		01000			
	\$EX20	XS	0003				10167	00732	00761	07567	10167	
CALL THE	DVRØ1		0003				10555	01000	01002	10241	10555	
	DVRØ2	DR	0003				10443		01002			
	DVR22	DR	0005				11075					
	LOADR		0032				21032		01425			
	JOBPR	UM	0038				22463		01414			
	ASMB	UM	0023	T006	010	12000	17120	01002	Ø1362			
	ASMBD	US	0004				17647		01363			
	ASMB1		0006				20542		01424			
	ASMB2		0007				20550		01410			
	ASMB3		0003				17771		01363			
	ASMB4		0004				20027		01371	17366		
	ASMB5		0006				20425		01404	17351		
	FTN	UM	0006				13127		01047			
	FTN01		0031			13254			01502			
	FTN02		ØØ25				21027		01356			
	FINDS		0023	TØ11			20600		01277			
	FTN04					13234	20750	01041	01360	13702	שכושב	
	LIBRY	LR	0147	TØ13	ו שש							

### EQUIPMENT TABLE LISTING

EQT 01 CH 11 DVR05 0 R U0 S0 EQT 02 CH 13 DVR01 0 0 U0 S0 EQT 03 CH 14 DVR31 D R U0 S0 EQT 04 CH 16 DVR02 0 0 U0 S0 EQT 05 CH 22 DVR22 D 0 U0 S0

### LOGICAL UNIT TABLE LISTING

LU01 E0T01 LU02 EQT03 LU03 EQT03 LU04 EQT04 LU05 EQT02 LU06 EQT01 LU07 EQT05

# MEMORY DUMP FOR DOSM SYSTEM GENERATION EXAMPLE

						er f	556 532	15	
ar - 999:	Paul par	CORE D	UMP: 00	9994-997	114532	114532	117532	114532	TRAP CEI
5	114532	114532	114532	114532	114532	114532	114532	114532	1
100201	114532	114532	114532	114532	114532	114532	114532	114532	JSB \$CE
P00030:	114532	114532	114532	114532	114532	114532	114532	114532	J 50.763
9999481	177700	177766	177767	177778	177771	177772	177773	1777741	•
8888581	177775	177776	177777	899999	000001	888882	000003	000064	
9999691	000005	090006	000007	000010	060011	000812	000021	002100	CONSTANT
000070:	000017	898837	009077	888177	000377	177400	003777	177700/	
000100:	037633	000000	000000	898812	000000	. 000000	868688	000000	
000110:	000000	000001	000001	000000	000003	\$013000	966836	(007361)	Strict of the strict
9991291	(BOOBS)	(AA75A6)	KOOOOOT	037634	888888	000000	900000	000000	A S
000130:	000000	666666	999999	000000	999999	000000	000000	999999	
8881481	000000	888888	999999	000000	800000	000000	066666	060600	
666156:	****	800000	888888	000000	060307	000601	000001	033403	
9691691	033403	000001	800000	000377	000026	000000	001005	868888	
P00170:	000046	999999	999999	999999	013001	000001	921450	000000	CURRENT
0272001	913000	(997515	000016)		997362	007363	007364	007365	EQT TABL
BBB218:	097366	997367	097370	007371	007372	007373	007374	997375	(ADDRESSE:
<u>000220:</u>	007376	007377	897488	007401	000000	000000	909999	900000	
800233:	980909	989899	999999	999999	000000	000000	000000	177777	
9992491	177777	077777	003327	(887533	000016	000000	007567	010241	
000250:	000732	991999	010241	001000	912000	001002	001633	<b>363</b> 888	
000202:	888888	199999	000000	002024	010463	000412	000000 044456	931461	
999791	045102	042117	021450	050521 041456	050521 031461	050421	036173	000724	
000300:	020000 044456	036173 031062	000723 020000	036164	999999	041456	031962	020000	<b>\</b>
86 ,584 NADOTA+	036164	000000	046117	849594	051000	036155	886686	163252	
P .0:	041120	951999	036146	000000	040523	046502	020000	Ø <b>3</b> 6137	System
1340:	041150	037501	051503	047900	036137	000000	037501	Ø <b>5</b> 1515	<b>I/0</b>
<b>000350:</b>	941999	036137	001000	037502	047103	047000	236137	000000	Butter
888368	037502	050113	052490	836137	000000	937593	844117	050000	
9993761	033403	000000	000312	001534	177610	829848	020040	020040	
0094001	030471	027117	041524	027867	030040	000000	966698	969699	
888498:	000000	000000	000000	000000	999999	000000	999991	<b>00</b> 0003	
0004201	000003	000004	000002	000001	000005	000000	888888	050521	
0004301	050521	050421	044456	031461	020000	037515	051531	046400	,
0004491	036137	999999	037522	846125		036137		037501	1
000459:	843114	043400	036137	999999	037514	051524	046999	036137	
0004668	898888	037514	052516	044400	936137	000000	937522	051502	
000470	200000	942191	PARPAR	999999	ଗ୍ରମ୍ମନ୍ତ	999999	888888	00/552	
0005661	177771	000000	000000	99999	909999	003463	300000	960000	
0005161	000000	177750	000000	888888	000000	177777	177777	<b>077777</b>	
990320:	973327	000000	096487	000120	000001	000000	999999	969699	Sus. links
0005383	114532	999999	00(1634)	IC#04160	004154	082214	003400	003511	
8009601	003020	902635	883744	003361	003426	024165	004267	002507	DISCIM ENT
000550:	994919	P03244	003345	003177	001714	003563	994944	002212	POINT
8885681	Ø <b>Ø2653</b>	002657	002661	992663	002665	002553	003214	003207	LINKS
300570:	PØ3143	002576	002700	002631	002521	993139	863117	004243	
<b>999599:</b>	P02445	004302	994393			. 000000	000000	990900	EXEC ENT
849610:		688888	000000	900609	808968	004505		000000	POINTS
0006281	800000	000000	000000	804671		8 000000		902322	1
20053A:	882222	002637	004262	004151	001746	004034	984125	984384	
30 0 s	004305	001736	001726	001723	004300	004301	004307	004272	DISCM
20 50:	004312	004313	004310	004311	284274	004150	304125	004127	PAGE
9685689	804135	P94124	094005	004024	994136	004035	004137	864277	LINKS
PANATAY	074131	994132	004133	984134	884278	004275	904139	994145	1
300710:	003204	994147	003607	002213	003743	183575	893325	002463	
	いい ランオム	003213	003220	003236	003903	0.05774	966911	006206	1

ESI THE AP-ET

		Disc	Reside	NT I/o	DRIVER	B.P.	LINKAGE		exec Subroutine Links
000720:	096354	MØ6336	006372	105774	996339	00631		006464	
000730:	<b>886568</b>	006743	007567	099090	999999	000000		000000	
0-740:	1000000	999999	900000	888888	999999	88888	and the state of t	888988	EXEC WO
0:	999999	000000	808898	000000	888888	00000	ME - For East 45 100 0	000000	DESC RE
207601	000000	999999	000000	000000	000000	00000	All the second s	0000000 000000	LINKAGE
999779:	'AGGGGGG	011001	000000	000000	999999 929315	000000 02217		015126	
001000: 001010:	010241	015342	012000 015465	01/024	014733	022213		014623	
0010201	015442	015754	828387	015124	815216	01522		014711	
001030:	929431	020432	014364	020433	020434	02643	7 - 60° (180 - 7112) - 128 - 61 - 62	015557	
001040:	021237	015623	814827	021051	922917	82844		020445	
901950:	020446	020447	020450	020451	020452	02101		115101	
001960:	014645	020453	015217	015256	017674	017377		017661	<b>\</b>
001070:	022263	015753	021173	017625	020427	61443		014353	
981189:	015041	014636	014463	017314	015337	81551		014044	
001110:	014054	014055	014056	014052	014050	01402	To the control of the	014057	
001120:	014060	014061	815040	014045	812262	82852	and the first of the second of	012725	
001130:	013157	012063	012636	013152	016551	01343		013147 013170	
991149:	Ø13627	013149	013166	016242	013142	013433 017423		013176 013126	
001150:	020426 020624	013161 017412	021647	020757 016419	Ø21016 Ø16267	81656		016273	
001100:	013141	01/412	013163	015427	012645	01521	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	020327	
8612881	015755	020326	115427	015341	015317	01210	2 10 10 10 10 10 10 10 10 10 10 10 10 10	015445	
9812191	915579	022214	022052	015266	015443	01567	and the second s	015462	
001220:	015432	015433	015434	021026	015227	81543		013164	•
001230:	015756	015343	022326	015624	020323	02032	· ·	022264	USER
0012493	822265	022266	022325	022274	022273	02227	6 022275	022270	BASE
001250:	022271	022267	022272	022305	022314	92232	9850 1 1 10 10 10 10 10 10 10 10 10 10 10 1	022324	
8r 1681	014432	115442	014434	Ø15131	020274	82001		016415	PAGE
9:	017622	016416	015127	016376	016763	01672		017623	LINKAGE
1 3001	015104	Ø16422	017696	022463	022464	01641		017640	1
001310:	817157	017156	022203	015444	022205	01641		017632	
001320:	816426	015722	013151	013133	016424	01503		115102 922036	
001336: 001340:	Ø16372 Ø22177	013174 022207	016423	015728 012722	022201 022212	02221	the action of the addition to the action which is	022211	
001350:	855588	022215	822891	055403	921767	01624	8 A 100 1887 St. 1 J. L. L	021664	
091368:	013104	013135	012447	013010	916575	02154		021542	
0013701	021541	021540	021461	021474	016721	11672		020527	
0014001	013155	020465	812473	628436	120436	01272		028449	
0014181	828441	020442	014351	020314	012214	01221	er i da i d	021999	
001420:	020777	929653	020757	012213	021023	02004	3 020057	<b>0202</b> 06	
0014361	020353	113273	020907	017433	117751	01777		01/150	
OGLAARI	017661	017542	Ø17624	113276	017421	01711		017571	of the second
9914581	017077	117112	017423	017107	017424	01742		017106	
001458:	017103	017113	117110	017306	117107	01710		013271	
8014761	013267	017161	013275	017305	117436	02170	The state of the s	021774 120302	
001500:	822834	022062	147722	146701	152240	14331		152724	
001510: 001520:	144716	140722 140731	154640	125215 146323	105252	14130		142714	1
001530:	142703	152305	142249	140323	151240	14064		147307	1
991540:	146305	120322	142701	142240	120240	12024		100612	
001550:	125240	147729	142722	140724	144717	14725	The second secon	120240	I
9015691	120240		128248	128248	120240	12024		128240	
001570:	120240	120240	120240	128248	120240	12024	the second second second second second	120240	- 1
90 9:	120240	120240	125215	105252	120240	12024		120240	
99 10:	120240	120240	120240	128248	120240	12024		120240	
वव १०२६:	120240	120240	120240	120240	120240	12024		120240	
0015001	120240	120249	128248	120249	000027			063634	DISCM
901640:	870242	163634	170627	182584		07364		186504	
PA1558:	054057	192994	054060	124630	054103	02775	4 644645	074000	Core resident
3			:	rờrir	E, AP-73				1A12 5N 13 *** ,

ая1660:	092020	027714	003000	040202	002020	027714	844201	160001	DISCM
991679:	002003	027714	114552	102504	164284	114001	027776	869569	
9 709:	002003	027714	060261	002002	027714	169557	164291	<b>00</b> 6003	
aby a:	992892	027714	074260	124544	063634	017746	882881	027722	
1720:	817726	127634	017726	102100	192795	127634	001721	060241	
0017301	103101	000036	102101	060237	964249	127726	UU1637	070237	
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9917691	034104	060106	082828	927714	034107	627714	963775	070107	
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892919:	026070	060141	002003	026070	160212	002020	063094	050054	¥
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0020701	160217	002002	026152	160206	012211	170206	160213	012210	
195196:	<b>692092</b> .	026163	160211	070505	164220	114634	026159	164635	Tr. valen
102110:	154636	026204	069260	002003	026143	003400	140121	114632	
8212%	040117	040056	160000	002020	026143	962212	002002	025141	
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021481	027426	006400	074260	164220	160206	102100	102705	124505	٧
102150:	160206	124595	050056	002301	026641	160206	110637	150640	
02158:	826644	060056	026641	063213	002003	026171	000513	002021	,
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Ø2210:	020000	037777	000000	000000	999999	103100	114641	062214	
,58:	040052	002001	102505	070512	979242	872424	036424	160000	
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M2270:	807004	036424	Ø62266	078585	162424	016507	178585	<b>034</b> 505	•
62388:	036424	996996	026274	168226	052500	992991	Ø26325	114642	
023101	170001	006004	102100	102705	124225	852477	<b>826328</b>	026633	1
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162330:	124534	052502	026346	052503	026340	052504	026425	026362	
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02350:	026344	032505	Ø72357	868183	032506	072360	060056	900000	
023681	030000	026312	002021	993094	842461	002020	026635	160226	
023761	002020	003004	070514	950964	026400	050065	002001	026402	
ing anni	Ø6ØØ63	070514	050060	026312	042436	160000	050052	026635	7
724191	052437	026431	979474	062462	070475	002404	064514	154475	•
024261	027020	002004	934475	826417		160644	079474	060066	
094385	027020	006400	169645	978474	962478	027020	002436	002431	
92440 i	002431	002431	100612	177777	100605	100606	100607	100607	
192450:	100507	100611	177777	002431	002431	002431	100603	100604	
1024501	100519	000022	002463	000020	000021	000006	00000/	000010	į
024701	000022	000013	000004	176000	001777	114000	002214	004243	
02580:	177755	177754	177753	177752	000027	102600	103700	000000	
02510:	002003	026635	050054	826635	001275	002001	126507	160000	
102520:	926518	140646	070514	060232	070472	966552	074473	168647	<b>\$</b>
0~530:	979474	062471	027020	006903	926665	060514	959955	002001	A
B 101	826432	969991	040055	160000	010071	050065	026432	052471	4
7501	026432	Ø26631	002533	004172	010072	002003	926653	007400	
00255A:	944999	903004	949122	982828	026653	044121	160001	002003	
the state of the s		040052	114632	949117	017345	126553	968686	164226	
1925793	などのひつつ								
1025%	026655 174212	996929	007004	868225	170211	160227	050050	003004	

002620:	154659	026625	154651	026625	160232	170216	160233	170217	DISCM
002630:	126576	006400	026670	064054	026678	064055	026670	064056	
B- 16491	025670	064057	070473	826678	007400	170286	016776	164652	
9- 18:	<b>026670</b>	164653	026678	864868	026670	064061	026679	064062	
1825581	Ø2667Ø	064063	826678	864864	026670	964965	060512	902801	
002570:	868242	070472	002400	070245	168654	070474	160653	027020	
992789:	004241	160205	002021	Ø26723	060061	979257	017003	<b>Ø267</b> 21	Ì
002710:	026717	160206	110637	150640	026717	034257	026721	<b>0600</b> 60	
002720:	826774	969293	179901	160213	010077	070001	160212	992020	7
002730:	093994	150650	826748	150651	026742	030001	170213	026744	
8927481	882484	026735	060055	026735	160205	010072	164293	114001	
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002750:	003004	070513	168286	130655	170206	126700	050056	002300	į
802779:	917331	006440	016776	969519	936799	126700	769866	060526	
003000:	002003	126776	124868	982787	064201	882498	150001	027017	
003010:	060165	002002	027016	886884	150001	037903	937093	127003	
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A63050:	070245	064246	074167	007004	044247	074170	160477	001722	4
3838681	010071	034477	164477	074166	036212	002003	027106	001722	V
903070:	001222	070901	003004	040170	002021	074170	017117	060174	
993109:	970166	064259	074167	007004	844251	874178	017117	<b>Ø</b> 72212	
003110:	867115	063116	003004	070245	124246	000001	000014	<b>0031</b> 07	
003120:	868166	017130	063127	006404	017490	002400	127117	000166	
003130:	003122	006400	114577	177770	060154	010074	003004	044000	<b>R</b> -
0031403	000021		127130	800000		954252			
003150	140650	144000	074170	040055	160000	070166	017117	060174	
1	070166	064253	007004	868513	140651	144000	006003	127143	
9:00:		070167	N36212	074170	017117	072212	127143	073204	
13200:	060253 077206	969296	073205	P27244	000000	888888	000000	000000	Programme and the second
003210:	060203		0/3203	000000	073221	060203	073220	027244	<b>*</b>
		073213		803115	073240	063116			
0032201	000000	N90000	037236	1344	073243	827244	000000	000000	
9632391	073241	060472	873242	060473		002003	827256	163205	
0032404	000000	000000	000000	000000	963294	55 July 1998 1 19 19 19 19 19 19 19 19 19 19 19 19 1		002003	
0032501	001222	010056	045045	027256	073204	127206	963213		į.
0632601	027271	969513	002020	027271	063213	017345	002400	W73213	100 mg
003518:	127207	063220	002003	027304	017003	027277	027304	063220	
003398:	017345	002400	073220	127221	063236	002003	027325	060245	
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0033341	027325	002002	064201	060203	150001	027342	006004	150001	
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BASTES L	967357	170001	092994	006004	034474	027351	127345	000203	•
003360:	177757	866666	979593	10.40	167361	074504	037351	006400	
ad337az	092082	164503	174504	934593	034504	034505	927367	127361	
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003489x	663423	017345	127400	000000	007726	398399	077561	017563	*
9934398	934261	067561	063556	006002	063553	073441	114545	898985	
003440:	000001	003554	000002	863463	063561	882882	027244	060520	*
003450:	114634	827244	060517	103101	000036	102101	060515	954516	
003460:	102100	102705	124528	817563	060123	673471	114545	199999	
0034701	999491	037634	000044	003475	027444	077562	017563	002400	<del></del>
90 31	070261	067562	017575	969471	150656	027430	150657	027430	Ÿ
<b>(</b> 519)	927444	060111	050054	027544	073532	064123	077533	016553	£
043520:	169285	001222	000010	027530	050203	050513	865861	017143	
003538:	114545	000001	003532	883533	000044	003537	027244	160123	
003540s	010075	150633	017575	027511	060261	002007	027551	034260	anders of the second
003550:	027244	997499		003554	006412	040137	003557	006412	
MOGDONE	021244	M M M / 4 M M	027426	<b>8833334</b>	66041Z	5-610/	990007	4.00-12	

	6 6 7 4 7 W		000000	207464	94 <b>9977</b>	078515	060240	070516	DISCM
003560:	025137	177777	000000	003464 070520	060237 127563	888888	074530	074472	,
903570: 007600:	060241 067575	970517 974473	060242 064123		010075	150633	027631	034261	
	114545	000002	000001	004140	177770	003625	064471	154656	
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0036401	154669	027677	150661	124662	150636	124663	150664	124665	
9936591	159666	124662	154656	002001	027702	159656	006401	027714	l
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903720:	159672	027731	150673	027731	027607	160674	078474	060064	,
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apeata:	074475	969196	032150	079196	016044	070262	070245	Ø62276	Mycos
804026 x	070474	064475	062313	124540	864242	074470	062126	050471	
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604068:	150001	001265	012304	052305	002041	026073	062072	044056	t .
004070:	170001	124706	004045	052153	032152	170001	107700	144707	
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9( 20:	170703	006904	170001		040502	050101	043517	845117	
10:	942512	046125	042521	052520	042116	842181	052131	047506	
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004230: 004249:	170214	936165 126165	162165	170215	Ø7226Ø	162243	072261	062260	
004250:	036243	999966	995699	002040	002004	036261	926251	126243	
9942021	091005	1.677	002573	070001	001700	040001	126262	000470	
004270:	100613	199614	100615	100616	100617	100620	100621	100622	
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2943131	000014	999915	000016	000017		848847	002002	026373	
004320:	969231		160226			050150	006400	114577	
004330:		* 992992	986884	007004	144230	006021	026341	006400	د مد د سوخ
0043498	026365	996489	060154	010074	003000	140227	140230	002003	\$EXØ1
004350:	026353	902921	026365	164239	144227	007004	000154	010074	<u> </u>
094360:	902004	040001	002020	026337	164230	174231	982408	070245	
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394410:	069160	006400	114577	177778	885885	006004	174227	060102	SEXPL
3944291	092093	\$45 G A & 200 C 1000 C 10	996400	114577	177778	802002	044052	074000	
0044301	026433	969154	010074	170230	060116	170231	982488	070245	
40 g:	102100	102705	124225	002400	070245	124541		046224	
6 1507	885685	826582	060238	114715	064227	034162	960290	065004	CEUML.
88446R:	114716	926477	864227	969114	114716	026477	002400	170230	SEXØ6
0944781	002400	070245	044952	160001	102100	102705	124225	944057	
204560	150901	926467	992489	979245	124541		072664		SEXII
004519:	072665	060245	052666	026537	060262	002002	026601	Ø60525	• •
:									<b>639</b>

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004520:	166663	056670	002003	926691	066647	976641	862664	114717	\$EX11
004530:	026614	066641	044063	076641	056663	026605	026526	062664	<b>4</b>
9 5491	066577	114717	026556	862664	866573	114717	026562	034162	
1 the 101	869288	002684	866664	114716	026567	095401	966577	002400	
045601	070245	126665	802573	664846	114543	000278	966647	976664	
004570:	062577	064046	114543	000133	062664	864846	114543	000126	
994699:	026556	992499	966667	114543	<b>000270</b>	034162	060200	002004	
994519:	966664	114716	026630	026555	066641	044060	160001	070161	
0046201	005004	160001	070157	996694	160001	079200	966641	026567	
0046301	976664	062663	049043	852647	026644	072641	940043	064043	
6945481	114543	998999	962641	Ø26632	862664	Ø84Ø46	114543	660278	*
004650:	060161	070275	060157	070276	060200	070277	062670	172663	
994569:	034525	066647	026567	999469	989999	888888	177765	177607	
004570:	022124	1 026707	Ø62771	002020	826772	862784	000002	062705	
38478W	1776 GY S	017250	064057	027051	047122	050105	884672	060161	
0047103	073261	060200	073262	864224	044047	866824	026724	160231	
0047201	050054	027074	002024	627126	062706	070526	060156	003000	
9847308	896821	160230	072771	002020	027013	070161	017215	017126	
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RA4750:	002003	027043	010075	053000	027101	027043	062771	003000	
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3647731	827885	696969	936771	026756	963162	066777	027045	177756	
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005030:	095034	995932	046102	046075	000000	000000	909999	005040	
005040:	952516	846182	846848	063037	064046	114722	017250	054055	٠
005050:	047154	982499	073154	<b>070526</b>	070245	160600	979474	060057	SEX17
6 '60:	124540	986499	074245	974525	063154	865885	027050	<b>863</b> 263	
10:	192199	102705	124225	005046	160239	070161	063073	070526	
W45140:	B17215	096409	077263	974126	074133	067177	017200	027115	
005119:	006404	969379	<b>#70</b> 200	063227	114720	054370	974157	027061	
6651201	070245	168681	070474	963125	124549	868823	000000	060176	
0051301	950272	B27136	978472	060272	070473	837154	969271	053155	
9951401	127126	067161	953156	867157	057161	063160	073164	077165	
AA5:56x	963163	064043	114722	127126	000000	042117	952123	041040	•
0051501	037477	937449	095166	005164	000000	000000	042111	051503	
9451708	020116	047524	020117	047040	051531	051524	042515	005174	
005200:	000000	160001	050273	996995	127200	160901	050274	006005	
005210:	127200	168991	050275	037260	127200	000000	006400	060161	
99522%	050155	964115	074200	063227		114720	127215	000200	
065239 x	000000	969161	033241	001727	073247	063242	064042	114722	
06524#1	127230	999969	005243	051525	041103	044101	047075	000000	
4052591	000000	063261	070161	063262	070200	868874	970163	073263 064161	
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0053001	917766	160206	170230	864224	054056	027310	164220	66	
005316:	102100	102705	124225	000015	000000	000000	340201	040045	1
005320:	073766	164000	996993	027331	044055	160001	010072	053334	<b>.</b>
0053301	992991	937315	M60203	127315	000000	160205	010072	073334	
005340:	017315	027356	1.000	802864	017315	027356	060061	017315	
005350:	027356	969962	017315	027356	102000	027354	006004	160001	
9953603	864514	054956	827411	061222	010056	992003	927411	959954	
00°379;	027402	050055	027376	063375	124566	095266	017766	963334 124544	4 <b>4 5 5 5</b>
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995423	043517	963334	017315	173766	063334	002004	114567	060514	
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0054501	050054	027435	050055	827435	927443	169227	027462	160206	
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101	Ø5346Ø	027454	053461	027454	868182	002003	027523	881727	
55281	010074	049052	027525	968154	818876	078505	969166	886488	
995530:	114577	177779	892982	006004	160232	010074	170232	003000	
995549:	040001	002021	124563	963755	006400	114577	177767	002002	
			002400	044511	006020	027560	002004	027553	V
995559:	006904	144233	040505	692626	124563	169233	048511	002021	
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9056901	878173	969224	049045	002002	124560	170214	114572	927654	
005610:	064177	160227	050050	074161	063753	027650	N50056	002001	
995620:	M67314	074161	050060	027642	050055		Ø67641	060057	
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005640:	124540	000022	063644	124566	005616	050057	002001		7
995659:	017766	160206	886488	827318	017766	063314	676151	160227	
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005736:	114577	177779	977756	001727	140233	070505	040511	002020	
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8868181	124541	BARRAG	972125	976126	969161	072107		8/2120	
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A:	062123	992893	026114	964527	056057	026111	006020	026060	
6940:	09 <b>496</b> 5	006043	026111	076131	002041	026054	062130	052107	
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994979:	025072	016136	036130	926963	026111	062124	866118	114543	
006106:	006123	060161	952197	026115	092400	070126	026115	<b>99</b> 9999	
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986148:	816244	062264	072124	062126	966124	015266	926975	056124	SSACH
006150:	944055	160001	010073	849845	002020	844861	844856	076124	
996159:	007000	144546	886828	026172	162124	002003	126136	050052	
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nonvag:	026137	126136	000000	070161	069074	070163	062237	070526	
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906220:	052243	992981	026226	968378		816244	000370	070157	
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886248:	026234	N51531	651524	842515	000000	070123	062263	070170	
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006300:	002001	026313	006004	#36127		010075	972127	160001	
006310:	010075	952127		036266	126266		962327	072334	
0963281	003400		120001	000004			126315	177741	
00573A:	999999	076334	064050	114543	90000	126330	000000	064600	4.0.
99. 9:	962352	016330	969279	Ø52353	002001	126336	016315	050327	SLBL
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9063788	000270	000166	000000	072481	076402	034261	114545	808605	
306499:	000001	000000	000000		124551	982488	070261	126372	
0064181	002750	160213	<b>010056</b>	050056	026431	032633	002311	001425	DVRØ5
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006420:	102611	016446	000015	016464	102711	882488	170220	126410	1
006430:	096424	120213	852577	026436	969957	126418	104214	006021	
8P* 1481	007004	174217	005300	174214	060055	025415	896422	164214	
PA 10:	005200	174216	164215	007324	005010	887984	091310	826462	
164601	006003	007480	174217	126446	061676	062464	852438	926476	
9964791	160205	<b>882828</b>	026476	034260	036464	126464	164213	005332	
706500:	026611	192511	010073	<b>656673</b>	026541	852422	026537	<b>05</b> 0065	1
006510:	026562	006020	026537	050054	026544	164216	004065	134216	♥
996529:	002041	881727	972445	969974	062340	961727	110001	832446	
8965381	170001	160213	001421	134217	666646	681425	170213	036464	3 (3 (3.42.934)
0065481	026686	016446	160213	026635	016553	044052	174216	160217	1
006559:	040052	170217	026537	000000	160214	001000	150216	026537	
996569:	164216	126553	005421	174213	016553	004065	160001	010075	
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996699:	006828	007300	844888	166711	001521	102511	183711	002400	
006610:	126464	R62464	052430	926621	192511	010074	959974	026621	
006620:	970260	992499	150216	920574	150217	926645	160216	134216	
005630:	000065	094910	062630	160000	996951	001727	010074	134217	
006640:	026643	952657	026574	102611	026537	062422	150220	060065	Y
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986788:	017211	000400	818867	802102	026737	160213	919956	001510	T 7
006719:	026714	067145	063336	026727	063337	002341	026726	160213	
0067201	010077	001225	953340	026726	868857	126660	067332	077062	
006730:	N73346	060041	170220	862736	072743	026764	006737	060056	
0067401	805400	974162	126668	881676	863347	196515		026755	
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07 '50:	196606	164217	124881	250764	164214	005004	160001	002003	
<u>₹</u>	027071	073354	886884	160001	002021	003005	BUILDA	002003	
7000:	003400	073355	044951	160001	010075	073350	120001	073351	
007010:	003004		001727	001300	043355	002020	027034	001727	
887828:	09120A		003004	040115	050116	882781	943350	070174	<del></del>
007030:	892489	996994	170001	027951	044955	003084	170001	043355	
007046:	073355	044852	883884	843354	170001	044852	063350	042701	
997959:									
	170001	017126	017241	00/354	063346	003330	053337	017172	
007068:	196602	067355	103714	017162	017241	063346			
9979798	026764	060500	002302	000040	060162	067353	992941	002003	
0071001	074164	002041	882882	674163		070152	164215	000020	DVR31
007119:	807004	126743	807171	063112	170217	802400	036743	126743	DALOT
9971291	887167	033347	196715	102615	103715	127120	007052	063351	
367139:	043335	002021	032791	002020	043334	033352	070001	063350	
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007269:	001200	865821	002405	969956	986489	974162	967369	074126	
007270:	067351	074130	067350	074127	885727	126743	063252	006500	
99. 9:	817143	002409	096500	017143	027051	001332	027315	067346	
9 5198	057336	027254	027313	102031	027104	017126	067345	166762	
00/320:	106602	063336	097409	193714		963359		073350	
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