•••••••••••••••••••••••••••••••••••••••	•••••		
000.001	1 DEBUG	EQU i	DON'T ASSEMBLE FOR DEBUG
	3***	HDOSOVL2 - M	OUNT/DISMOUNT OVERLAY
	5 *		
	5 <b>*</b>	G. Chandler	79.02.sc
		COPYRIGHT HEATH CO.	- 1676
	9 *	COLLINION NEATH CO.	7 4///
•••••	• • • • • • • • • • • • • • • • • • • •		
		*************************	<u></u>
	11 ***		QUESTS FOR MOUNT AND DISMOUNT.
	<u>12</u> *	HANDLER OVERLAY.	E NO LARGER THAN THE SYSTEM I/O
	• • • • • • • • • • • • • • • • • • • •	*************	
•••••			
	15 **	SYSTEM SYMBOLS	
000.000	16 17	XTEXT ASCII	
	• • • • • • • • • • • • • • • • • • • •		
	19X **		ITUAL'ENCEC.
	20X		174FEWGE21
000.015	21X CR	EQU 13	CARRIAGE RETURN
000.012	22X LF 23X NULL	EQU 10 EQU 200Q	LINE FEED PAD CHARACTER
000.200	24X NUL2		THU CHARACTER
000.007	25X BELL	EQU 7	BELL CHARACTER
000.177	26X RUBOUT	EQU 177Q EQU 10Q	CTL-H
000.016	28X C.SYN	EQU 26Q	SYNC
000.002	29X C.STX	EQU 2	STX
000.047	30X QUOTE	EQU 47Q EQU 11Q	
000.011 000.033	31X TAB 32X ESC	EQU 33Q	
000.012	33X NL	EQU 12Q	NEW LINE (HDOS SYSTEMS)
000.212	34X ENL	EQU NL+200Q	NL + END-OF-LINE-FLAG FORM FEED
000.014 000.001	35X FF 36X CTLA	EQU 14Q EQU 01Q	FORM FEED CTL-A
000.002	37X CTLB	EQU 02Q	CTL-B
000.003	38X CTLC	EQU 03Q	CTL-C
000.004	39X CTLD 40X CTLD	EQU 04Q EQU 17Q	CTL-D CTL-0
000.017	41X CTLP	EQU 20Q	CTL-P
000.021	42X CTLQ	EQU 21Q	CTL-Q
000.023	43X CTLS	EQU 23Q	CTL-S
000.032	44X CTLZ 45	EQU 32Q XTEXT MTR	CTL-Z
000,000		ermer HIII	
000.000	<b> </b>		
	• • • • • • • • • • • • • • • • • • • •		

SECOND HDOS OVERLAY PAM/8 EQUIVALENCES.			HEATH HEASH V1.4 01/20/78 PAGE 2 14:19:02 16-MAY-80
	•••••	• • • • • • • • • • • • • • • • • • • •	17,17,102 10 1111 00
		- PAM/8 EQUIVALEN	NCES.
***************************************	49X.*	BECK CONTAINS S	YMBOLIC DEFINITIONS USED TO
			B CODE AND CONTROL BYTES.
	• • • • • • • • • • • • • • • • • • • •		
	53X ** IO PO	ORTS	
	54X	***************************************	
000.360	55X IP.PAD EQU	360Q	PAD INPUT PORT
000.360 000.360	56X OF CTL EQU 57X OP DIG EQU	360Q 360Q	CONTROL OUTPUT PORT DIGIT SELECT OUTPUT PORT
000.361	58X OP SEG EQU	3610	SEGMENT SELECT OUTPUT PORT
***************************************			
***************************************	60X ** FRON	PANEL CONTROL I	BITS.
***************************************	61X		
000.020	62X CB.SSI EQU	00010000B	SINGLE STEP INTERRUPT
000.040 000.100	63X CB.MTL EQU	00100000B	MONITOR LIGHT CLOCK INTERRUPT ENABLE
000.200	65X CB.SPK EQU	10000000B	SPEAKER ENABLE
	•••••		
***************************************	67X ** MONI	TOR MODE FLAGS	
	68X		
000.000 000.001	70X DM,MR EQU	. <b></b>	MEMORY READ MEMORY WRITE
000.001	71X DM.RR EQU	2	REGISTER READ
000.003	72X DM.RW EQU	····· <del>3</del>	REGISTER WRITE
***************************************		OPTION BITS.	
	75X *		N. OFILL MENAS
	76X * THESI	BITS ARE SET I	N LELL +MFLAG+
000.200	78X UO.HLT EQU	10000000B	DISABLE HALT PROCESSING
000.100	79X UO+NFR EQU	CB.CLI	NO REFRESH OF FRONT PANEL
000.002 000.001	80X UO.DDU EQU 81X UO.CLK EQU	00000010B 0000001B	DISABLE DISPLAY UPDATE
······	OIX OU+CLK ERO	000000015	ALLOW PRIVATE INTERRUPT PROCESSING
	83X ** MONI	TOR IDENTIFICATION	ON FLAGS
***************************************	84X *		***************************************
			THE ROM MONITOR.
	86X * THEY 87X	ARE THE VARIOUS	VALUES OF LOCATION .IDENT
000.021	88X M.PAMS EQU	021Q	'LXI' INSTRUCTION AT 000,000 IN PAM-8
000.303	89X M.FOX EQU	3038	'JMP' INSTRUCTION AT 000.000 IN FOX ROM
•••••	•••••		
***************************************			
•••••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

M/8 EQUIVALENCES.	•••••			HEATH HBASM V1.4 01/20/78 PAGE 3 ENTRY 14:19:02 16-MAY-80
	************			
	91X ** 92X *	ROUTINE	ENTRY POINTS.	
	······· 930·····	• • • • • • • • • • • • • • • • • • • •		
000.000	94X .IDEN	r EQU	0000A	IDENTIFICATION LOCATION
000.053	95X .⊅LY	EQU	0053A	DELAY
001.267	96X .LOAD	EQU	1267A	TAPE LOAD
001.374	97X IDUMP	EQU	1374A	TAPE DUMP
002.136	98X .ALARI	1 EQU	2136A	ALARM ROUTINE
002.140	99X HORN	EQU	2140A	HORN
002.172	100X ⋅CTC	EQU	2172A	CHECK TAPE CHECKSUM
002.205	101X .TPERF	R EQU	2205A	TAPE ERROR ROUTINE
0.02+264	102X .PCHL	EQU	2264A	PCHL INSTRUCTION
002.265	103X .SRS	EĠŨ	2265A	SCAN RECORD START
002.325	104X RNP	EQU	2325A	READ.NEXT.PAIR
002.331	105X .RNB	EQÛ	2331A	READ NEXT BYTE
002.347	106X • CRC	EQU	. 2347A	
003.017	107X .WNF	ĒĠŪ	3017A	CRC-16 CALCULATOR WRITE NEXT PAIR
003.024	108X .WNB	EQU	3024A	WRITE NEXT BYTE
003.122	109X .DOD	EQU	3122A	DECODE FOR OCTAL DISPLAY
003.260	110X • RCK	EQU	3260A	READ CONSOLE KEYSET
003.356	111X .DODA	EQU	3356A	SEGMENT CODE TABLE
040.000	114X * 115X 116X +STAR	EQU	40000A	START DUMP ADDRESS
040,002	117X • IOWR		40000A 40002A	IN OR OUT INSTRUCTION
040.005	118X REGI	EQU	40005A	DISPLAYED REGISTER INDEX
040.006	119X .DSPR		40006A	PERIOD FLAG BYTE
040.007	120X .DSPMC		40007A	DISPLAY MODE
040.010	121X •MFLAC		40010A	USER OPTION BYTE
040.011	122X •CTLFL	.G EQU	40011A	PANEL CONTROL BYTE
040.013	123X ALEDS	EQU	40013A	ABUSS LEDS
040.021	124X DLEDS	EQU	40021A	DRUSS LEDS
040.024	125X .ABUSS	EQU	40024A	ABUSS REGISTER
040.027	126X .CRCSU		. 40027A	CRCSUM WORD
040.031	127X +TPERF		40031A	TAPE ERROR EXIT VECTOR
040.033	128X .TICCN		40033A	CLOCK TICK COUNTER
040.035	129X .REGPT		40035A	REGISTER POINTER
040.4037	130XUIYE0		40037A	USER INTERRUPT VECTORS
000.000	131	XTEXT	BOODEF	
	133X **	BOODEF	- SPECIAL BOOT-	HDOS INTERFACE DEFINTIONS.
	134X			
047.000	135X SB+ORG		47000A	ORG FOR LOAD OF INITIAL HDOS.SAV
014.000	136X SB.0V	IX EQU	14000A	SIZE OF HOLD AREA FOR SWAPPED USER CODE
	137X *			(=MAX SIZE OF HDOSOVL.SYS)
000.000	138	XTEXT	HDSROM	
•••••	• • • • • • • • • • • • • • • • • • • •			

ECOND HDOS OVERLAY AM/8 EQUIVALENCES				нѕрсом	HEATH H8ASM V1.4 01/20/78 14:19:07 16-MAY-80	PAGE
• • • • • • • • • • • • • • • • • • • •	140X **	HDOS H	117 ROM ENTRY POI	NTS.	••••••	
031.253	141X	ORG	31253A			
031.253	142X DWRITE		*		• • • • • • • • • • • • • • • • • • • •	
031.253	143X	DS	31256A-31253A			
031.256	144X DREAD	EQU	*	• • • • • • • • • • • • • • • • • • • •	•••••	
031.256	1.45X	TIS	31275A-31256A			
031.275	146X S.READ	ÉQU	*			
031275	147X	DS	31321A-31266A			
031.330	148X S.WRIT	E EQU	*			
031.330	149X	DS	31325A-31311A			
031.344	150X ERR.FN	O EQU	*			
031.344	151X	DS	31331A-31325A			
031.350	152X ERR, IL	R EQU	*			
031,350	153X	DŞ	31335A-31331A			
031.354	154X CFF	EĠÜ	*			
031.354	155X	DS	31363A-31335A			
032.002	156X DCA	EQU	*			
032.002	157X	DŞ.	32114A-31363A			
032.133	158X FFB	EQU	*			
032,133	159X	I/S	32166A-32114A			
032.205	160X FFL	EQU	*			
032.4205	161X	DŞ	32204A-32166A.			
	162X *LDD	EQU	*			
032223	163X	DŞ	32372A-32204A+	·1		
033.012	164X LDO	EQU	*			
033.012	145X	DİŞ	33135A-33002A.			
033.145	166X PDI	EQU	*			
033.145	167X	DS	33154A-33124A			
033.175	168X REL.	EQU	*			
033.1.75	169X	<u>DŞ.</u>	331564-33154A.		• • • • • • • • • • • • • • • • • • • •	
033.177	170X REL	EQU	*			
033177	<u>171</u> X	<u>D</u> Ş	33212A-33156A.		•••••	
033.233	172X TFE	EQU	*			
033.233	173X	DS	33232A-33206A.			
033+257	174X RUC	EQU	*			
033,257	1.75	X!EX.	FILDEF	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
***************************************	177X **	FILDEF	- FILE TYPE DEF	INITIONS.	•••••	
	178X *	<u></u>				
	179X *	DB	3770,FT.XXX			
••••••••••	180X	<i></i>				
000 000	181X	E0::	^	ATION UTC ST	JAP,V	
000,000	182X FT.ABS		<u>Q</u>	ABSOLUTE BIN		
000.001			1		DEPENDANT CODE	
000+002	184X FT REL		2	RELOCATABLE	<u> </u>	
000,003	182X FI*RUL		3 U17ncc	COMPTLED BAS	DIO CONC	
033.257	186	XTEXT	H17DEF	• • • • • • • • • • • • • • • • • • • •		
	*********					
	• • • • • • • • • • • • • • • • • • • •				••••••	

SECOND HDOS OVERLAY PAM/8 EQUIVALENCES.				HEATH H8ASM V1.4 01/20/78 PAGE 5 H17 14:19:13 16-MAY-80
	188X **	H17 CON	redl'informatio	N•
	189X			
000,177	190X DF.DC 191X	EQU	07FH	DISK CONTROL FORT
000.001	192X DF.HD	EØÜ	00000001B	HOLE DETECT
000.002	193X DF.TO	EQU	00000010B	TRACK O DETECT
000.004	194X DF.WF	Έαυ·····	00000100B	WRITE PROTECT
000.010	195X DF.SD	EQU	00001000B	
	196X		.000010006	SYNC DETECT
000.001	197X DF.WG	EQU	0000001B	WRITE GATE ENABLE
000.002	198X DF.DS0	EQU	00000010B	DRIVE SELECT O
000.002	199X DF.DS1	EQU		
			.00000100B	DRIVE SELECT 1
000.010	200X DF.DS2		00001000B	DRIVE SELECT 2
000.020	201X.DF,MQ	E.Q.V	.00010000B	MOTOR ON (BOTH DRIVES)
000.040	202X DF.DI	EQU	00100000B	DIRECTION (O=OUT)
000.100	203X. DF • ST	EQU	.01000000B	SIEP COMMAND (ACTIVE HIGH)
000.200	204X DF.WR	EQU	10000000B	WRITE ENABLE RAM
	205X			
	206X			
	207X			
	208X **	DISK UAF	RT PORTS AND CO	NTROL FLAGS.
	209X			
000.174	210X UP.DP	EQU	07CH	DATA PORT
000.175	211X UP.FC	EQU	07DH	FILL CHARACTER
000,175	212X UP.ST	ÉQU	07DH	STATUS FLAGS
000.176	213X UP.SC	EQU	07EH	SYN CHARACTER (OUTPUT)
000.176	214X UP.SR	EQU	07EH	SYNC RESET (INPUT)
	215X			
000.001	216X UF.RDA	EQU	00000001B	RECEIVE DATA AVAILABLE
	21.7X_UF,ROR.	EQV	.00000010B	RECEIVER OVERRUN
000.004	218X UF.RPE	EQU	00000100B	RECEIVER PARITY ERROR
000,100	219X_UF.FCT.	EQU	01000000B	FILL CHAR TRANSMITTED
000.200	220X UF.TBM	EQU	10000000B	TRANSMITTER BUFFER EMPTY
	221X			
	222X			
	223X			
• • • • • • • • • • • • • • • • • • • •	224X **	CHARACT	ER DEFINITIONS.	
	225X			
000,375	226X C.DSYN	Fall	OFDH	PREFIX SYNC CHARACTER
033,257	227	XTEXT		Committee of the Control of the Cont
	· · · · · · · · · · · · · · · · · · ·	�.५ <del>२</del> 01	ारणा च केर्राच है	
		• • • • • • • • • • • • • • • • • • • •	•••••	
		HOSDEF :	- DEFINE HOS PA	RAMETER.
	230X *			
	231X			
	232X			
000.026	233X VERS	EQU	1*16+6	VERSION 1.6
	234X			***************************************
000.377	235X SYSCALI	L EQU	377Q	SYSCALL INSTRUCTION
	236X			
	237X			
000.000	238X	ÖŘĠ	Ŏ	•••••••••••••••••••••••••••••••••••••••
	239X	-··-	-	
	240x *	"RESTNEN	TEUNCTIONS	
	241X	I NEW Z DEIN		•
	Apr 1 4 71			

SECOND HDOS OVERLAY PAM/8 EQUIVALENCES.				HEATH H8ASH V1.4 01/20/78 PAGE 6 HOSDEF 14:19:15 16-MAY-80
000,000	242X .EXI	T DS	i	EXIT (MUST BE FIRST)
000.001	243X •SCI		_	SCIN
000,002	244X .SCO			SCOUT
	245X .PRI		1	PRINT
000,003	246X •REA			READ
000.004			1	
000.005	247XWRI			WRITE
000.006	248X .CON		1	SET/CLEAR CONSOLE OPTIONS
000.007	249X .CLR		<b>1</b>	CLEAR CONSOLE BUFFER
000.010	250X .LOA		1	LOAD AN OVERLAY
000.011	251X •VER	S DS	1	RETURN HDOS VERSION NUMBER
000.012	252X .SYS	RES DS	1	PRECEDING FUNCTIONS ARE RESIDENT
	253X			
	254X			
	255X *	*HDOSOU	LO.SYS*FUN	CTIONS
	256X			9.19.9
000.040	257X	ORG	40A	
······································	258X		,	····
000 040		ik ne	4	LINK (MUST BE FIRST)
000.040	259X .LIN			CTL-C
000.041	260X .CTL		1	
000.042	261X OP.E			OPENR
000.043	262X .OPE		1	OPENW
000.044	263X .OPE	NU DS	1	OPENU OPENU
000.045	264X .OPE	NC DS	1	OPENC
000.046	265XCLO		1	CLOSE
000.047	266X .POS		1	POSITION
000.050	267X .DEL		1	DELETE
000.051	268X •REN		··· 🛱 · · · · · · · · · · · · · · · · ·	RENAME
000.052	269XSET			SETTOP
000.053	270X .DEC		1	NAME DECODE
000.054	271XNAM		1	GET.FILE NAME FROM CHANNEL
000.055	272X •CLE	AR DS	1	CLEAR CHAN
	273X+CLE			CLEAR ALL CHANS
000.057	274X .ERR	OR DS	1	LOOKUP ERROR
000.060	275XCHF	LG DS	1	CHANGE FLAGS
000.061	276X .DIS		1	FLAG SYSTEM DISK DISMOUNTED
000.062	277X .LOA		î .	LOAD DEVICE DRIVER
	278X	P.P P.Y		COMP. PC41CE PRIVER
• • • • • • • • • • • • • • • • • • • •	279.X			077000
	280X *	*#10207	/L1.SYS* FUN	CIIONS
	281X			
000.200	282X	ORG	200Q	
	283X		• • • • • • • • • • • • • • • • • • • •	
000.200	284X .MOU		1	MOUNT (MUST BE FIRST)
000.201	285XDMQ			DISMOUNT
000.202	286X .MON		1	MOUNT/NO MESSAGE
000.203	287X .DMN		1	DISMOUNT/NO MESSAGE
000.204	288X .RES		··· <u>ī</u>	RESET = DISMOUNT/MOUNT OF UNIT
000.205	289	XTEXT	ÖVLDEF	NESS. ELEMENT HOURT OF CITY
				•••••••••••••••••••••••••••••••••••••••
		• • • • • • • • • • • • • • • • • • • •		
				***************************************
•••••				
			• • • • • • • • • • • • • • • • • • • •	

SECOND HDOS OVERLAY PAM/8 EQUIVALENCES.					HEATH HBASM V1.4 01/20/78 PAGE 7 DVLDEF 14:19:17 16-MAY-80
	291X	<b>*</b> *	OVERLAY	TABLE ENTRYS.	
000.000	292X 293X		ORG	ö	
***************************************	294X		ONG	V	
000.000		DATITOR	DS	2	FIRST SECTOR OF OVERLAY CODE
000.002	296X (	DVL.SIZ	DS	2	OVERLAY SIZE
000.004	````2∀7X`î	DVL ENT	DS	2	OVERLAY ENTRY POINT
000.006	298X (	DVL.FLB	DS	1	OVERLAY FLAG BYTE
000.007	-//		2.0	1	DUMMY BYTE TO ROUND TABLE SIZE UP TO 8 OVERLAY ENTRY SIZE
000.010	300X	DVL.ENS	E.GO	· <del>*</del> · · · · · · · · · · · · · · · · · · ·	UVERLHI ENIKI SIZE
	302X >	*	OVERLAY	INDICES	
	303X				***************************************
000.000	304X		ORG	0	
	305X				
000.000	306X (	DVLO	DS	<u>.‡</u>	
000.001	30/X (	UVL 1		1 ncunce	
000.002	308		XTEXT	DEVDEF	
	310X > 311X	**	DEALCE	ABLE ENTRYS.	
000.000	······3122·		ORG	ö	
	313X		01.0	v	
000,000		DEV.NAM	DS	2	DEVICE NAME
000.000	315X I		EQU	0000000B	END OF DEVICE LIST FLAG
000.001	316X	DV. NU	EQU	0000001B	DEVICE ENTRY NOT IN USE
000.002	317X	DÉV.RÉS	. <del>HA</del>		DRIVER RESIDENSE CODE
000.002	319X		EQU	1 00000001B	DRIVER IN MEMORY
000.002	·····3262		EQU	00000001B	DRIVER PERMINANTLY RESIDENT
000002	321X	w		000000101	DIVEYER FERMINICE RESIDENT
000.003		DEV.JMF	DS	1	JMP TO PROCESSOR
000.004		DEV.DDA		2	DRIVER ADDRESS
000.006		DEV.FLG		1	FLAG BYTE
000.001	325X.I		.EQU	00000001B	DIRECTORY DEVICE
000.002	326X 1		EQU	00000010B	CAPABLE OF READ OPERATION
000,004	327X . 328X	Til + FM	EĠŃ	00000100B	CAPABLE OF WRITE OPERATION
000.007		DEV.SPG	DS	1	SECTORS PER GROUP THIS DEVICE
000.010	33óx	DEV.MUM	. j.š	. <del></del>	MOUNTED UNIT MASK
000.011	331X	DEV.MNU	DS		MAXIMUM NUMBER OF UNITS
000.012	332X	DEV.UNT	DS	. <u>1</u>	ADDRESS OF UNIT SPECIFIC DATA TABLE
	333X				
000.014		DEV.DVL		2	DRIVER BYTE LENGTH
000.016	335X	ĎĔÁ*ĎÄĞ	'nż	.1	DRIVER ROUTINE GROUP ADDRESS
000.017	336X	DEUE! EX	EOIL	*	DEUTCE TABLE ENTRY LENGTH
	9846	DEAELEN	. E. O	· <del>**</del>	DEVICE TABLE ENTRY LENGTH
					······································

M/8 EQUIVALENCES.	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		UNT.TAB 14:19:18 16-MAY-80
			HATT CO	ertetr hentre ha	TA TABLE ENTRIES
	340X	ጥጥ	OMII SE	COILIC DEATCE DH	IH IMBLE ERIKIES
000.000	341X		ORG	· · · · · · · · · · · · · · · · · · ·	
	<u>342X</u>				······································
000.000 000.001		UNT.FLG UNT.GRT		1	UNIT SPECIFIC *DEV.FLG*
000,003		UNT.GTS		·· <del>ːś</del> ······	ADDRESS OF GROUP RESERVATION TABLE (IF DT.DD) GRT SECTOR NUMBER
000.005		UNT.DIS		2	DIRECTORY FIRST SECTOR NUMBER
	347X		. 7. 7	··· <del>·</del> ····	22 CONTROL OF STATE O
000,007	348X	UNT.SIZ	EQU	*	SIZE OF UNIT SPECIFIC DATA TABLE PER UNIT
000.007	349		XTEXT	DIRDEF	
	• • • • • • • • • • • • • • • • • • • •		••••••	• • • • • • • • • • • • • • • • • • • •	
••••••	351X	**	DIRECTO	RY ENTRY FORMAT.	
	352X				
000.000	353X		ORG	0	
• • • • • • • • • • • • • • • • • • • •	354X 355X	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •		
000.377		DF.EMP	EQU	377Q	FLAGS ENTRY EMPTY
000.376		DF.CLR		376Q	FLAGS ENTRY EMPTY, REST OF DIR ALSO CLEAR
	358X				WE STIN DEGO OCCUR
000.000	359X	DIR.NAM	DS	8	NAME
000.010		DIR.EXT		3	EXTENSION
000.013		DIR.PRO		1	PROJECT
000,014 000,015		DIR.VER DIRIDL		· . <del>]</del>	VERSION
0001013	364X	DIKIDE	EUU	*	FILE IDENTIFICATION LENGTH
000.015		DIR.CLU	ns		CLUSTER FACTOR
. 000.016		DIR.FLG		ī	FLAGS
000.017	367X		DS	1	RESERVED
000,020		DIR.FGN		1	FIRST GROUP NUMBER
000.021		DIR.LGN		1	LAST GROUP NUMBER
000.022 000.023		DIR.LSI DIR.CRD		. <del>]</del>	LAST SECTOR INDEX (IN LAST GROUP)
000.025		DIR.ALD		5	CREATION DATE LAST ALTERATION DATE
***************************************	373X	MITINITE .		· <del>f.</del> · · · · · · · · · · · · · · · · · · ·	LHO! HETERHITOR DATE
000+027	37.4X	DIRELEN	EQU	*	DIRECTORY ENTRY LENGTH
000.027	375		XTEXT	DISDEF	
				••••••	
	377X	**	DIRECTO	RY BLOCK FORMAT.	······································
000,000	378X.	• • • • • • • • • • • • • • • • • • • •		······	
***************************************	379X		ORG	V	
000.000		DISTENT	EQU	*	FIRST ENTRY ADDRESS
000.000	382X		DS	22*DIRELEN	22 DIRECTORY ENTRYS PER BLOCK
001.372	383X		DS	1	O BYTE = END OF ENTRYS IN THIS BLOCK
····××1···+5+	384X		·AE:A·····	· • <u>- • ,• -</u> • • <u>- •</u> • • • • • • • • • • • • • • • • • •	
001.373 001.373	385X	מור מיי	ORG	512-5	AT END OF BLOCK
001.374		DIS.ENL		. 1	LENGTH OF EACH ENTRY (=DIRELEN)
001.376		DIS.LNK		2	BLOCK # OF THIS BLOCK,  BLOCK # OF NEYT BLOCK, O TE THIS TO LAST
002.000	389		XTEXT	ÎOCDEF	BLOCK # OF NEXT BLOCK, =0 IF THIS IS LAST

PAM/8 EQUIVALENCES.	•••••		IOC 14:19:27 16-MAY-80
			•
	391X ** 1/0 C 392X	HANNEL DEFINITI	ONS.
000.000	393X ORG	·····o	
	394X	<u>.</u>	
000.000	395X TOC.LNK DS	2	ADDRESS OF NEXT CHANNEL, =0 IF LAST
000.002	396X IOC.DDA DS	2	THREAD JUMP TO DEVICE DRIVER (VIA DEV TABLE)
000.004			ETLE TYPE ELAGO
000.004	398X IOC.FLG DS	1 00000001B	FILE TYPE FLAGS =1 IF DIRECTORY DEVICE
000.001	400X FT.OR EQU	0000001B	=1 IF OPEN FOR READ
000.004	401X FY.0W EQU	00000100B	=1 IF OPEN FOR WRITE
000.010	402X FT.OU EQU	0000100B	=1 IF OPEN FOR UPDATE
000.003	403X 10C75QL EQU	*-10C.DDA	LENGTH OF INFO FOR SEQUENTIAL FILE (FROM IOC)
	404X	1 20012211	ZEROW OF THE PERCENTAGE TO THE
000.005	405X 100.GRT DS	2	ADDRESS OF GROUP RESERVATION TABLE
000.007	406X IOC.SPG DS	1	SECTORS PER GROUP, THIS DEVICE
000.010	407X 10C.CGN 05	1	CURRENT GROUP NUMBER
000.011	408X IOC.CSI DS	1	CURRENT SECTOR INDEX (IN CURRENT GROUP)
000.012	409X IDC.LGN DS	1	LAST GROUP NUMBER
000.013	410X IOC.LSI DS	1	LAST SECTOR INDEX (IN LAST GROUP)
000.010	411X TOC. DRL EQU	*-10C.FLG	LENGTH OF INFO NORMALLY COPIED BACK TO
	412X *	<u>.</u>	THE CHANNEL TABLE
000.014	413X 10C.DTA DS	2	DEVICE TABLE ADDRESS FOR THIS DEVICE
000.012	414X IOC.DES DS		SECTOR NUMBER OF DIRECTORY ENTRY DEVICE CODE
000.022	416X TOC.UNI DS	1	UNIT NUMBER (0-9)
000.021	417X 10C.DIL EQU	*-10C.DDA	LENGTH OF INFO FOR DIRECTORY FILE (FROM IOC)
000.021	418X	Ψ-10C+DDH	LENGTH OF THE FOR DIRECTORY FILE (FROM 10C)
000.023	419X TOC.DIR DS	DIRELEN	DIRECTORY ENTRY
	420X		
000.1052	421X IDCELEN EQU	····*	TOC ENTRY LENGTH
	422X		
000.001	423X IDCCTD EQU	·····1	INDEX OF USER CHANNEL #6 IN CHANTAB (FIRST = 6)
000.052	424 XTEXT	DDDEF	
•••••			·····
	426X ** DEVIC	E DRIVER COMMUN	ICATION FLAGS.
	427% *		
000.000	428X 429X ORG	·····o	
000+000	429X URG 430X		
000.000.	431X DC.REA DS		READ
000.001	432X DC.WRI DS	1	WRITE
000.002	433X DC.RER DS	·····iً······	READ REGARDLESS
000.003	434X DC.OPR DS	1	OPEN FOR READ
000.004	435X DC.OPW DS	í	OPEN FOR WRITE
000.005	436X DC.OPU DS	1	OPEN FOR UPDATE
000.006	437X DC.CLO DS	i	CLOSE
000.007	438X DC.ABT DS	1	ABORT
000.010	439X DC.MOU DS	1	MOUNT DEVICE
000.011	440X DC.LOD DS	1	LOAD DEVICE DRIVER
000.012	441X DC.MAX DS	1	MAXIMUM ENTRY INDEX
000.013	442 XTEXT	ECDEF	

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SECOND HDOS OVERLAY			HEATH H8ASM V1.4 01/20/78 PAGE 10
PAM/8 EQUIVALENCES.	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	ECDEF 14:19:30 16-MAY-80
	***************************************		
	444X ** 445X	ERRUR CU	CODE DEFINITIONS.
000.000	446X	ORG	0
000.000	447X	.ps	. 1
000.001	448X EC.EOF	DS	1 END OF FILE
000,002	449X EC.EOM	DS	1 END OF MEDIA
000.003 000.004	450X EC.ILC	-	1 ILLEGAL SYSCALL CODE
000,005	451X EC.CNA 452X EC.DNS	DS 	1 CHANNEL NOT AVAILABLE
000.006	453X EC.IDN		1 DEVICE NOT SUITABLE 1 ILLEGAL DEVICE NAME
000.007	454X EC. IFN		1 ILLEGAL FILE NAME
000.010	455X EC.NRD	DS	1 NO ROOM FOR DEVICE DRIVER
000.011	456X EC.FNO		1 CHANNEL NOT OPEN
000.012	457X EC.ILR	DS	1 ILLEGAL REQUEST
000.013	458X EC.FUC	DS	1 FILE USAGE CONFLICT
000.014		DS	. 1. FILE NAME NOT FOUND
000.015	460X EC.UND		1 UNKNOWN DEVICE
000+016	461X EC.ICN	. <u>PS</u>	.1ILLEGAL CHANNEL NUMBER
000.017 000.020	462X EC.DIF	DS	1 DIRECTORY FULL
000.021	463X EC.IFC	.DS	1 ILLEGAL FILE CONTENTS
000.022	465X EC+RE	DS	1 NOT ENOUGH MEMORY
000.023	466X EC.WF	DS	1 READ FAILURE 1 WRITE FAILURE
000.024	467X EC.WPV	DS	1 WRITE PHILORE 1 WRITE PROTECTION VIOLATION
000.025	468X EC.WP	DS	1 DISK WRITE PROTECTED
000.026	469X EC.FAP		.1
000.027	470X EC.DDA	DS	1 DEVICE DRIVER ABORT
000.030	471X EC.FL	. DS	. 1. FILE LOCKED
000.031	472X EC.FAO		1 FILE ALREADY OPEN
000.032	473X EC.IS	DS	.1ILLEGAL SWITCH
000.033	474X EC.UUN		1 UNKNOWN UNIT NUMBER
000.034	475X EC.FNR 476X EC.DIW		.1 FILE NAME REQUIRED
000.036	477X EC.UNA	DS DS	DEVICE IS NOT WRITABLE (OR WRITE LOCKED)
000.037	478X EC. ILV		1 UNIT NOT AVAILABLE
000.040	479X EC.ILO	DS	1 ILLEGAL VALUE 1 ILLEGAL OPTION
000.041	480X EC.VPM		1 VOLUME PRESENTLY MOUNTED ON DEVICE
000,042	481X EC.NVM		1 NO VOLUME PRESENTLY MOUNTED
000.043	482X EC.FOD		1 FILE OPEN ON DEVICE
000.044	483X EC.NPM		1 NO PROVISIONS MADE FOR REMOUNTING MORE DISKS
000.045	484X EC.DNI		1 DISK NOT INITIALIZED
000.046	485X EC.DNR	.DS	1. DISK IS NOT READABLE
000.047 000.050	486X EC.DSC	DS	1 DISK STRUCTURE IS CORRUPT
000.051	487X EC.NCV 488X EC.NOS	. DS	1 NOT CORRECT VERSION OF HDOS 1 NO OPERATING SYSTEM MOUNTED
000.052	489X EC.101		- 50 01 51441 3140 0101511 110014150
000.053	490X EC.OTL		1 ILLEGAL OVERLAY INDEX 1 OVERLAY TO LARGE
000.054	491		DDFDEF
***************************************			
•••••	• • • • • • • • • • • • • • • • • • • •		
•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	

ÉCOND HDOS ÖVÉRLAY AM/8 EQUIVALENCES.					HEATH HEASM V1.4 01/20/78 PAGE 11 DDFDEF 14:19:34 16-MAY-80
UIL O EGOTAUTEMPES!	• • • • • • • • • • • • • • • • • • • •				######################################
			*****	· '**********	'APP TATE TALL
	493X 494X		DIRECTOR	TOEVICE FORMAT	DELINI LION.
	495×		• • • • • • • • • • • • • •		
	496X				
202.205		HOSTSPG	E00	<u>.</u>	2 SECTORS FER GROUP REQUIRED FOR NOW
	498X				
000.000	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		ORG	>	
000.000		DDF.BOO		<b>,</b>	2K BOOT PROGRAM
000.011	501X	DDF BOL	'ÉQÚ X	k	LENGTH OF BOOT
000.011		DDF.LAB		[	LABEL SECTOR
000.012		DDF.RGT		2	RESERVED GROUP TABLE
000.014		DDF.USR		) 	BEGINNING OF OPEN SPACE
000.014	505		XTEXT L	ABDEF	
***************************************					
	507X	**	DISK LABE	L SECTOR FORMA	······································
	508X				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
000.000	509X		ORG	<b>)</b>	APPARAL MINERS OF HOLLING
000.000		LAB.SER		<u>.</u>	SERIAL NUMBER OF VOLUME
000.001		LAB. IND		2	INITIALIZATION DATE
000,003		LAB.DIS		£	SECTOR NUMBER OF 1ST DIRECTORY SECTOR
000.005		LAB.GRT LAB.SPG		<u> </u>	INDEX OF GRT SECTOR SECTORS PER GROUP
000,007	······5152.				SECIONS FER ORDOR
000.000		LAB.DAT	FOU (	)	DATA VOLUME ONLY
000.001		LAB.SYS			SYSTEM VOLUME
000.002		LAB.NOD		<u>.</u> 2	=> LAB.NOD MEANS VOLUME HAS NO DIRECTORY
	519X			~ ,	
000.010		LAB.VLT	DS :	l	VOLUME TYPE
000.011		LABIVER		í · · · · · · · · · · · · · · · · · · ·	VERSION OF INIT17 THAT INITED DISK
000.012	522X		DS :	7	UNUSED
000.021	523X	LABILAB	DS d	śò	LABEL
000.074		LAB.LBL		k-LAB.LAB	LABEL LENGTH
000.115	525		XTEXT (	ABSDEF	
					······································
	527X	**	ABS FORM	AT EQUIVALENCES	· · · · · · · · · · · · · · · · · · ·
	528X		<i></i>		
000.000	529X		ORG (	0	
	530X			,	77700 - NIMAN ETIE ELAC
000.000		ABS.ID		<b>1</b>	3770 = BINARY FILE FLAG
000,001	532X	ABS.LDA	DS	1 2	FILE TYPE (FT.ABS)
000.002 000.004		ABS.LEN		ے 2	LENGTH OF ENTIRE RECORD
000.004		ABSTENT	. ns	<u>.</u> 2	ENTRY POINT
VVV+VVU	536X			<b></b>	
000.010		ABS.COD	DS	Ò	CODE STARTS HERE
000.010	578		YTFYT	PICHEE	
		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	
· · · · · · · · · · · · · · · · · · ·					

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				PICDEF 14:19:42 16-MAY-80
	540X **	PIC FOR	MAT EQUIVALENC	FS.
	541X			
000.000	542X	ORG	0	
000.000	543X 544X PIC.II			7776 - 571460 - 771260
000.001	545X	DS	1	377Q = BINARY FILE FLAG FILE TYPE (FT.PIC)
000.002	546X PIC.LEN		···•2·······	LENGTH OF ENTIRE RECORD
000.004	547X PIC.PTR		. 2	INDEX OF START OF PIC TABLE
000.006	548X		_	
000.006	549X PIC.COD 550	XTEXT	DIFDEF	CODE STARTS HERE
		A1EA1	DIFDEF	
	•••••			
·	552X **	DIRECTO	RY FILE FLAGS.	
000 000	553X			
000,200	554X DIF.SYS		10000000B	SYSTEM FILE
000.100	555X DIF.LOC 556X DIF.WP	EQU EQU	0100000B 00100000B	LOCKED FOR CHANGE
000.020	557X DIF.CNT		00010000B	WRITE PROTECTED CONTIGUOUS FILE
	558X		*******************	
000.006	559	XTEXT	NAMDEF	
	561X ** 562X *	SYSTEM	FILE NAME CONV	ENTIONS
	563X *	RGT	.sys	RESERVED GROUP TABLE (1 SECTOR)
	564X *	GRT		GROUP RESERVATION TABLE (1 SECTOR)
	545X.*	.DIRECT		PIRECTORY
	566X * 567X	HOS	•SYS	SYSTEM IMAGE PROGRAM FOR SYSTEM
000.006	568	XTEXT	MTRDEF	
			•••••	
•••••••••••••••••••••••••••••••••••••••	57AV ##			
	570X ** 571X	. 111.155 TU	MITION LYINH(F	RAM AREA DEFINITIONS.
000,000	572X	ORG	0	
000.000		DS	1	SYSCALL ITTERATION COUNT
000,001	574X M.SALO	DS		STAND-ALONE FLAG
000.002	575X M.CSLC 576X M.CPRE	DS DS	1	LINES IN CONSOLE BUFFER
000.004		DS	1	CONSOLE PREVIOUS CHARACTER CONSOLE RUBOUT FLAG
		DS	ī	CONSOLE INTERRUPT FLAG
000.005	579X M.CIN	DS	2	CONSOLE CB IN POINTER
000,005		DS	.2	CONSOLE CB OUT POINTER
000.005 000.006 000.010	580X M.COUT	· — A· · · · · · ·		POMPOLE OF EUX. 383403665
000,005 000,006 000,010 000,012	580X M.COUT 581X M.CFWA		2	CONSOLE CB FWA POINTER
000.005 000.006 000.010	580X M.COUT 581X M.CFWA 582X M.CLWA	DS	2 .2 .1	CONSOLE CB LWA POINTER
000,005 000,006 000,010 000,012 000,014	580X M.COUT 581X M.CFWA	DS	2 2 1 2	

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SECOND HDOS OVERLA HDOS CONSTANTS	a r				HEATH H8ASM V1.4 01/20/78	PAGE 13
npus cursinais		• • • • • • • • • • • • • •			14:19:4916-MAY-80	• • • • • • • • • • • • • • • • • • • •
000,021	587	XTEXT.	···HOSÉQO·····			
000.021	J6/	X+EX1	поэсио			
				•••••		
		• • • • • • • • • • • • • • • • • • • •			•••••	
••••	589X **	HDOS S	YSTEM EQUIVALE	NCES.		
	590X * 591X					
024.000	592X S.GRT	o EQU	24000A	SYSTEM AREA	FOR GRTO	• • • • • • • • • • • • • • • • • • • •
025.000	593X S.GRT		25000A	SYSTEM AREA		
026.000	594X S.GRT	Ź EQU	26000A	SYSTEM AREA I	FOR GRT2	
awaawa	595X	A#. #AH		·······:::::::::::::::::::::::::::::::		
030.000	596X ROMBO 597X	UI EQU	30000A	ROM BOOT ENT	KΥ	
040.100	57/A598X	ORG	40100A	FREE SPACE FI	ROM PAM-8	• • • • • • • • • • • • • • • • • • • •
	599X			THE OTHER IT	The state of the s	
040.100	600X	DS	8	JUMP TO SYSTI	EM EXIT	
040.110	601X D.CON	DS	<u>16</u>	DISK CONSTAN		
040.130	602X SYDD	EQU		SYSTEM DISK		
040,130	603X D.VEC	DS DS	24*3	SYSTEM ROM EI		
040.240 040.277	604X D.RAM 605X S.VAL	DS.	31 36	SYSTEM ROM WI		
040.343	606X S.INT	DS	115		NAL WORK AREAS	
041.126	607X	DS		OTOTELL TITLE	THE WORK BILLIO	
041.146	608X S.SOV	R DS	16	STACK OVERFL	DW WARNING	
041.150	609X	DS	42200A-*	SYSTEM STACK		
001.032	610X STACK	L EQU	*-S.SOVR	STACK SIZE		
042.200	611X 612X STACK	EQU	*		CTACK	
042,200	613X USERF		*	LWA+1 SYSTEM USER FWA	STHER	
	614	711.5557			•••••	
042,200	615	XTEXT	EDVEC			
	••••					
	617X **	JMP VE	CTORS FOR ROM	CODE		
			2372237222			
	619X *	SEE DI	SK ROM FOR ADD	RESSES		
••••••	620X * 621X *	HOSEOU	MUST BE ALTER	ED WHEN THIS TAB	IE TO ALTEDED	•• •••••
	622X	HOULAG	HOOT DE HEIEK	CD MUCK INTO IMP	LE 13 HETERED.	
040.130	623X	ORG	D.VEC		•••••	************************
	624X					
040.130	625X D.SYD		3		(MUST BE FIRST)	
040.133	626X D.MOU		3	JMP R.MOUNT		
040.136 040.141	627X D.XOK	DS pr pc	ა შ	JMP R.XOK		
040.141	628X D.ABO 629X D.XIT		3	JMP R.ABORT	••••••	
040.147	630X D.REA			JMP R.READ		
040.152	631X D.REA		3	JMP R.READR		• • • • • • • • • • • • • • • • • • • •
040.155	632X D.WRI		3	JMP R.WRITE		
040+160	633X D.CDE		···· <del>3</del>	JMP R.CDE	••••••	
	634X D.DTS	DS	3	JMP R.DTS		
040.163			<u></u> . <i></i>			
040.163 040.166 040.171	635X D.SDT 636X D.MAI	DS DS	3 3 3	JMP R.STIT JMP R.MAI		

HDOS CONSTANTS				HEATH HBASM V1.4 01/20/78 PAGE EDVEC 14:19:52 16-MAY-80
040.174	637X D.MAO	ĎS	3	JMP R.MAD
040.177	638X D.LPS		<u>3</u>	JMP R.LPS
040.202	639X D.RDB	DS	3	JMP R.RDB
040,205	640X D.SDP		3	JMP R.SDP
040.210	641X D.STS	DS	3	JMP R.STS
040,213	642X D.STZ		3	JMP R.STZ
040.216	643X D.UDL	Y DS	3	JMP R.UDLY
040.221	644X D.WSC	ps	3	JMP R.WSC
040.224	645X D.WSP	DS	3	JMP R.WSP
040,227	646X D. WNB		3	JMP R.WNB
040.232	647X D.ERR		3	JMP R.ERRT
040+235	648X D.DLY	ÞS	3	JMF R.DLY
	649			
940.240	65.0	XTEXT.	ESYAL	
	********************			
•••••	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		***************************************	·· <u>········</u>
	652X **	5.VAL	- SYSTEM VALUE	TIEF THI TONS.
•••••	653X.*	TUESE		***************************************
	654X *	IMESE	VALUES ARE SET	AND MAINTAINED BY THE SYSTEM.
• • • • • • • • • • • • • • • • • • • •	455X*	THE RE		Twitter region and the control of th
	656X *	I ME. DE	CK HUSERO MUSI	BE MODIFIED WHEN THIS IS MODIFIED.
	657X	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
940+277	658X 659X	ODC	C. HAI	
······×7×14/	657A	ORG	S. VAL	
040,277		r ne	0	CVOTEN TATE ATM ADDITION
040,310	661X S.DAT		9	SYSTEM DATE (IN ASCII)
040.312	663X S.TIM		4	CODED DATE
040.316	664X S.HIM			TIME FROM MIDNIGHT (IN TICS)
	665X	20	<u>.</u>	HARDWARE HIGH MEMORY ADRESS+1
040.320	666X S.SYS		2	FWA RESIDENT SYSTEM
	667X	. 10	٠.	LAM VESTREMI SIBIEM
040.322	668X S.USR	4 DS	2	LWA USER MEMORY
	669X		-	LWH USER MEMURI
040.324	670X S.OMA	C DS	2	MAX OVERLAY SIZE FOR SYSTEM
	671X			THA OVEREN SIZE FOR SISIEM
	672X	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
*********	673X **	THE FO	LLOWING FIVE O	ELLS SHOULD BE MODIFIED/READ ONLY VIA THE .CONSL SYSCALL
	674X		····፣።፣።፣።፣	THE THE TOWNER ONLY VIE THE TOWNER STOUGHT
000.200	675X CSL.E	CH EQU	10000000B	SUPPRESS ECHO
000.002	676X CSL.WI		000000108	WRAP LINES AT WIDTH
000,001	677X CSL.CI		00000001B	OPERATE IN CHARACTER MODE
	678X		····፣፡፡፣፡፡፣፡፡፣፡፡፣፡፡፡፣፡፡፡፣፡፡	
000,000	679X I.CSL	ID EQU	0	S.CSLMD IS FIRST BYTE
040.326	680X S.CSLI	id ds	i	CONSOLE MODE
	681X		***	
000,200	682X CTP.B	S EQU	10000000B	TERMINAL PROCESSES BACKSPACES
000.040	683X CTP.ML		00100000B	MAP LOWER CASE TO UPPER ON INPUT
000,020	684X CTP.MI		00010000B	MAP LOWER CASE TO UPPER ON DUTPUT
000.010	685X CTP.29		0001000B	TERMINAL NEEDS TWO STOP BITS
000.002	686X CTP.BI		00000010B	MAP BKSP (UPON INPUT) TO RUBOUT
000.001	687X CTP.TA		00000010B	TERMINAL SUPPORTS TAB CHARACTERS
	688X	···- <del></del>		THIRTHE OUT ON I THE CHARACTERS
000.001	689X I.CON	Y EWU	1	S.CONTY IS 2ND BYTE

HDOS CONSTANTS				ESVAL	HEATH HBASH VI 14:19:56 16-6		PAGE
	•••••					· · · · · · · · · · · · · · · · · · ·	
000.000	890X	ĖRĖNŽ	*-\$.CSLMD-1.CON	/ <b>y</b>			
040.327	691X S.CONTY		1	CONSOLE TYPE F	LAGS		
000.002	692X 1.CUSOR		.3	S.CUSOR IS 3RD	RYTE		
000.002	693X	ERRNZ	*-S.CSLMD-I.CUSC		2.12		
040.330	**************************************		4	CURRENT CURSOR	···enertynu······	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
000.003	695X I.CONWI		3	S.CONWI IS 4TH			
000.000	696X	··ERRNZ····	*-s.cslmd-1.com				
040.331	697X S.CONWI		1	CONSOLE WIDTH			
	698X		· . <del>*</del> · · · · · · · · · · · · · · · · · · ·	CONSOLL WIDIN			
000.001	699X CO.FLG	EQU	00000001B	CTL-O FLAG			
000,200	700X CS.FLG			CTL-S FLAG			
000.200		EQU	1000000B	CIL-5 PLAG			
	701X			S.CONFL IS 5TH			
000+004	702X I.CONFL				ם וות		
000,000	703X	ERRNZ	.×-s.csLMD-I.coN				
040,332	704X S.CONFL	มช	1	CONSOLE FLAGS			
		<u> </u>		Approced con Ap	ODT DOODEDCING	75562 TE 1141 F	
040.333	706X S.CAADR		2		ORT PROCESSING		LUI
040,335	707X S.CCTAB 708	<i></i>	.6	HEEK FOR CICTH	, CTL-B, CTL-C	KOCESSINO	
040 747		VTCVT	FOTAIT				
040.343	709	XTEXT	ESINT				
	711X ** 712X * 713X *	THESE C	ELLS ARE REFEREN		AND MAIN CODE,	AND	
	712X *	THESE C		CED BY OVERLAYS	AND MAIN CODE,	AND	
xxx.axa	712X * 713X * 714X * 715X 716X	THESE C MUST TH	ELLS ARE REFEREN EREFORE RESIDE I	CED BY OVERLAYS	AND MAIN CODE,	AND	
040.343	712X * 713X * 714X * 715X 715X 716X 717X	THESE C	ELLS ARE REFEREN	CED BY OVERLAYS	AND MAIN CODE,	AND	
040.343	712X * 713X * 714X * 715X 715X 716X 717X 718X	THESE C MUST TH	ELLS ARE REFEREN EREFORE RESIDE I S.INT	CED BY OVERLAYS	AND MAIN CODE,	AND	
040.343	712X * 713X * 714X * 715X 716X 716X 717X 718X 719X **	THESE C MUST TH	ELLS ARE REFEREN EREFORE RESIDE I	CED BY OVERLAYS	AND MAIN CODE,	AND	
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040.343	712X * 713X * 714X * 715X 716X 716X 717X 718X 719X ** 720X 721X S.CDB	THESE C MUST TH ORG CONSOLE	ELLS ARE REFERENCE EREFORE RESIDE IN  S.INT  STATUS FLAGS  1	CED BY OVERLAYS	S AND MAIN CODE, ORY,	AND	
	712X * 713X * 714X * 715X 716X 716X 717X 718X 719X ** 720X	THESE C MUST TH ORG CONSOLE DS EQU	ELLS ARE REFERENCE EREFORE RESIDE I S.INT STATUS FLAGS	CED BY OVERLAYS N FIXED LOW MEM	S AND MAIN CODE, SORY, SPTOR BYTE	AND	
040.343 000.000 000.001	712X * 713X * 714X * 715X 715X 716X 717X 718X 719X ** 720X 721X S.CDB.H85 723X CDB.H85	THESE C MUST TH ORG CONSOLE DS EQU EQU	ELLS ARE REFERENT EREFORE RESIDE I S.INT STATUS FLAGS 1 000000000B	CED BY OVERLAYS N FIXED LOW MEM CONSOLE DESCRI	S AND MAIN CODE, IORY, IPTOR BYTE		
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040.343 000.000 000.001	712X * 713X * 714X * 715X 715X 716X 717X 718X 719X ** 720X 721X S.CDB 722X CDB.H85 723X CDB.H84 724X S.FAUD	THESE C MUST TH ORG CONSOLE DS EQU EQU	ELLS ARE REFERENT EREFORE RESIDE I S.INT STATUS FLAGS 1 000000000B	CONSOLE DESCRI	S AND MAIN CODE, IORY,  SPTOR BYTE  SAUD RATE, =0 IF	H9−5.	
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040.343 000.000 000.001	712X * 713X * 714X * 714X * 715X 716X 717X 718X 719X ** 720X 721X S.CDB.H85 723X CDB.H85 723X CDB.H84 724X S.FAUD 725X * 726X	THESE C MUST TH ORG CONSOLE DS EQU EQU DS	ELLS ARE REFEREN EREFORE RESIDE I S.INT STATUS FLAGS 1 00000000B 00000001B	CONSOLE DESCRI	S AND MAIN CODE, IORY,  SPTOR BYTE  SAUD RATE, =0 IF	H9−5.	
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	VL.RES		00000010B	PERMINANTLY RESIDENT
749X 0	VĽ∵ŇÚM∵	EGO		OVERLAY NUMBER MASK
	VL.UCS	EQU	10000000B	USER CODE SWAPPED FOR OVERLAY
			<u> </u>	OVERLAY FLAG
			2	FWA SWAPPED USER CODE
			2	LENGTH SWAPPED USER CODE
				SIZE OF OVERLAY CODE
	·••×		<del></del>	ENTRY POINT OF OVERLAY CODE
	.SSN	ns	2	SWAP AREA SECTOR NUMBER
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760X				
761X *		SYSCALI	PROCESSING WOR	K AREAS
762X				
			1	(ACC) UPON SYSCALL
	• CODE	DS	1	SYSCALL INDEX IN PROGRESS
		JUMPS 1	TO ROUTINES IN R	ESIDENT HDOS CODE
	HIMBO	TIC:	^	OTABLE OF SILVER AND S
			···¾·····	START OF DUMP VECTORS
				JUMP TO STAND-IN DEVICE DRIVER
				JUMP TO FATSERR (FATAL SYSTEM ERROR)  JUMP TO DIREAD (DISK FILE READ)
				JUMP TO FCI (FETCH CHANNEL INFO)
773X S	·ści	ĎS	3	JUMP TO SCI (STORE CHANNEL INFO)
	· GUF	DS	3	JUMP TO GUP (GET UNIT POINTER)
			1	OO IF THE SYSTEM DISK IS MOUNTED
	·DCS	DS	1	DEFAULT CLUSTER SIZE-1
	**********	A22 · · · · · · ·		***************************************
			1	BOOT FLAGS
		- KU		EXECUTE PROLOGUE UPON BOOTUP
	9	STACK U	JALLIE SAUETI EOD	DUEDLAY EVECALLE
783X		7	THE SHAFE TON	DVERENT STRENELS
784X S.	OVSTK 1	os	2	VALUE OF SP UPON SYSCALLS USING OVERLAY
785X			••••••	
786X		DS	1	RESERVED
	750X 0 751X S 752X S 754X S 754X S 7554X S 7558X S 7558X S 761X * 762X S 764X * 764X S 764X S 764X S 764X S 767X S 777X S 77X S	750X OVL.UCS 751X 752X S.OVLFL 753X S.UCSF 754X S.UCSL 755X S.OVLE 757X 756X S.OVLE 757X 758X S.SSN 769X S.OSN 760X 761X * 762X 763X S.CACC 764X S.CODE 765X 766X * 767X 768X S.JUMPS 769X S.SDD 770X S.FASER 771X S.DIREA 772X S.FCI 773X S.SCI 773X S.BOOTF 775X 776X S.BOOTF 780X BOOT.P 781X 782X * 783X 784X S.OVSTK 785X	752X S.OVLFL DS 753X S.UCSF DS 754X S.UCSF DS 754X S.UCSF DS 755X S.OVLS DS 755X S.OVLE DS 755X S.OVLE DS 757X 758X S.SSN DS 759X S.OSN DS 760X 761X * SYSCAL 762X 763X S.CACC DS 764X S.CACC DS 765X 766X * JUMPS 767X 768X S.JUMPS DS 767X 776X S.JUMPS DS 767X 776X S.JUMPS DS 767X 776X S.JUMPS DS 777X S.FOID DS 777X S.FOID DS 777X S.FOID DS 777X S.FOID DS 775X 776X S.MOUNT DS 777X S.DCS 778X 779X S.BOOTF DS 780X BOOT-P EQU 781X 782X * STACK OPS 785X 785X	750X OVL.UCS EQU 10000000B 751X 752X S.OVLFL DS 1 753X S.UCSF DS 2 754X S.UCSL DS 2 755X S.OVLE DS 2 755X S.OVLE DS 2 755X S.OVLE DS 2 757X 758X S.SSN DS 2 759X S.OSN DS 2 759X S.OSN DS 2 760X 761X * SYSCALL PROCESSING WOR 761X * SYSCALL PROCESSING WOR 761X * SYSCALL PROCESSING WOR 762X 763X S.CACC DS 1 765X 764X S.CODE DS 1 765X 766X * JUMPS TO ROUTINES IN R 767X 768X S.JUMPS DS 0 769X S.SDD DS 3 771X S.DIREA DS 3 772X S.SCI DS 3 773X S.SCI DS 3 774X S.GUP DS 3 775X 776X S.MOUNT DS 1 777X S.DCS DS 1 778X 779X S.BOOTF DS 1 780X BOOT.P EQU 000000001B 781X 782X * STACK VALUE SAVED FOR 1 783X 784X S.OVSTK DS 2

796X # BOBO HAS NO GOOD INDEXED ADDRESSING, THE DAYA IS MANUALLY 797X # COPIED INTO THE ALD.XXX CELLS BEFORE PROCESSING.  041.040 BOOX ALD.VEC DS 3 UNIF INSTRUCTION 041.041 BOOX ALD.DEC DS 1 PLAS BYTE 041.043 BOOX ALD.DEC DS 1 FLAS BYTE 041.044 BOOX ALD.DEC DS 2 ADDRESS OF BROUP RESERV TABLE 041.045 BOOX ALD.CET DS 1 CURRENT GROUP NUMBER 041.046 BOOX ALD.CET DS 1 CURRENT GROUP NUMBER 041.050 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.051 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.052 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.053 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.053 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.054 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.055 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.056 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.057 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.058 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.059 BOOX ALD.CET DS 1 LAST GROUP NUMBER 041.051 BOOX ALD.CET DS 1 DEVICE CODE TO COUNT 041.061 BLZX ALD.CET DS 2 DEVICE CODE 041.061 BLZX ALD.CET DS 1 BOOX ALD.CET D	SECOND HDOS OVERLAY HDOS CONSTANTS			HEATH H8ASM V1.4 01/20/78 14:20:00 16-MAY-80	FAGE 17
797X * COPIED INTO THE AID.XXX CELLS SECRET PROCESSING, AND 798X * BACKDATED AFTER PROCESSING.  041.040  400.041.041  800X ATO.04C DB 3  041.043  800X ATO.04C DB 1  1 CLAS BYTE  041.044  800X ATO.5CD DB 1  041.046  800X ATO.5CD DB 1  90X ATO.5CD DB 2  90X ATO.5CD DB 2  90X ATO.5CD DB 1  90X ATO.5CD DB 2  90X ATO.5CD DB 2  90X ATO.5CD DB 1  90X ATO.5CD DB 2  90X ATO.5CD DB 1  90X ATO.5CD		· · · · · · · · · · · · · · · · · · ·	AANTYNMAUANTYANAMANAYA	#*#:#:*##*############################	
Type					
041.040   800X ATO. VEC DE	• • • • • • • • • • • • • • • • • • • •	798Y W BACKDATED AFT	TE HIU:XXX CELLS BEFURE PR	UCESSING, AND	
041.040 800X A10.0EC BS 3 JUMP INSTRUCTION 041.041 801X A10.DAD & COU S - 2 DEVICE DRIVER ADDRESS 041.043 802X A10.FLS BS 1 FLAS BYTE 041.043 802X A10.FLS BS 2 ADDRESS OF BROUP RESERV TABLE 804.047 805X A10.GRN BS 1 CURRENT SCOUP NUMBER 041.047 805X A10.GRN BS 1 CURRENT SCOUP NUMBER 041.050 806X A10.GSN BS 1 CURRENT SCOUP NUMBER 041.051 807X A10.LSN BS 1 LAST GROUP NUMBER 041.052 806X A10.LSN BS 1 LAST GROUP NUMBER 041.053 807X A10.LSN BS 1 LAST GROUP NUMBER 041.055 810X A10.DSN BS 2 DEVICE TABLE ADDRESS 041.055 810X A10.DSN BS 2 DEVICE TABLE ADDRESS 041.055 810X A10.DSN BS 2 DEVICE TOWN 041.051 813X A10.DSN BS 2 DEVICE TOWN 041.052 813X A10.DSN BS 2 DEVICE TOWN 041.053 813X A10.DSN BS 1 SECTOR COURT 041.054 813X A10.DSN BS 1 SECTOR COURT 041.055 810X A10.DSN BS 1 SECTOR COURT 041.056 813X A10.DSN BS 1 SECTOR COURT 041.057 813X A10.DSN BS 1 SECTOR COURT 041.058 813X A10.DSN BS 1 SECTOR COURT 041.114 816X A10.CSN BS 1 SECTOR COURT 041.114 819X A10.FFP BS 2 TEMP FILE POINTERS 041.115 820X A10.FFP BS 2 SYSTEM SCRATCH AREA ADDRESS 041.120 822X S.SCR BS 2 SYSTEM SCRATCH AREA ADDRESS			EK LKOCESSIKO:		
041.044 803X A10.0RT BS 2 ADDRESS OF GROUP RESERV TABLE 041.044 804X A10.0FG BS 1 SECTORS PER GROUP 041.047 805X A10.0FG BS 1 SECTORS PER GROUP 041.050 806X A10.0FG BS 1 CURRENT GROUP NUMBER 041.050 806X A10.0FG BS 1 CURRENT SECTOR INDEX 041.053 807X A10.0FB BS 1 LAST GROUP NUMBER 041.053 807X A10.0FB BS 1 LAST GROUP NUMBER 041.053 807X A10.0FB BS 2 DEFECTION SECTOR INDEX 041.055 810X A10.0FG BS 2 DEFECTION SECTOR INDEX 041.057 811X A10.0FC BS 2 DEFECTION SECTOR 041.056 812X A10.0FT BS 1 UNIT NUMBER (0-7) 041.061 813X 10.0FF BS 1 UNIT NUMBER (0-7) 041.062 814X A10.0FF BS 1 DIRECTORY ENTRY 041.111 817X A10.0FF BS 1 END OF COUNT FLAG 041.112 817X A10.0FF BS 1 END OF COUNT FLAG 041.114 818X A10.0FF BS 1 END OF COUNT FLAG 041.115 816X A10.0FF BS 1 END OF COUNT FLAG 041.116 820X A10.0FF BS 1 END OF COUNT FLAG 041.116 820X A10.0FF BS 1 END OF COUNT FLAG 041.116 820X A10.0FF BS 1 END OF COUNT FLAG 041.116 820X A10.0FF BS 1 END OF COUNT FLAG 041.116 820X A10.0FF BS 2 END OF CHANNEL BLOCK (10C.0F6) 041.116 820X A10.0FF BS 2 END OF CHANNEL BLOCK (10C.0F6)	041.040		JUMP INSTRUCTIO	Ň	
041.044 803X A10.GRT DS 2 ADDRESS DF GROUP RESERV TABLE 041.047 805X A10.CRN DS 1 SECTIONS PER GROUP 041.047 805X A10.CRN DS 1 CURRENT SECON THE CONTROL OF CONTROL O		801X AID.DDA EQU *-2		DDRESS	
041.045 804X A10.596 DS 1 SECTOR S FER GROUP 041.050 806X A10.651 DS 1 CURRENT SROUP NUMBER 041.050 806X A10.651 DS 1 CURRENT SROUP NUMBER 041.052 806X A10.651 DS 1 CURRENT SROUP NUMBER 041.053 806X A10.651 DS 1 CURRENT SROUP NUMBER 041.053 806X A10.651 DS 1 CURRENT SROUP NUMBER 041.055 810X A10.DED DS 2 DEVICE TORLE ADDRESS 041.057 811X A10.DED DS 2 DEVICE CODE 041.061 812X A10.DIN DS 1 DURI NUMBER (0-9) 041.062 814X A10.DIN DS DIRELEN DIRECTORY SERVING (0-9) 041.062 814X A10.DIN DS DIRELEN DIRECTORY SERVING (0-9) 041.111 807 A10.601 DS DIRELEN DIRECTORY SERVING (0-9) 041.112 815X A10.CHT DS 1 SECTOR COUNT 041.113 818X A10.CHT DS 1 SECTOR COUNT 041.114 810X A10.CHT DS 1 SECTOR COUNT 041.115 818X A10.CHT DS 1 SECTOR COUNT 041.116 820X A10.CHA DS 2 TEMP FILE POINTERS 041.116 820X A10.CHA DS 2 SYSTEM SCRATCH AREA ADDRESS 041.116 820X A10.CHA DS 2 SYSTEM SCRATCH AREA ADDRESS				•••••	
O41.047   905X A10.CGN DS   1   CURRENT SECUR NUMBER     O41.050   800X A10.LGN DS   1   LAST SECTOR NIMEX     O41.051   807X A10.LGN DS   1   LAST SECTOR NIMEX     O41.052   806X A10.LST DS   1   LAST SECTOR NUMBER     O41.053   809X A10.DTA DS   2   DEVICE TABLE ADDRESS     O41.055   810X A10.DEV DS   2   DEVICE CODE     O41.051   811X A10.DEV DS   2   DEVICE CODE     O41.061   811X A10.DEV DS   2   DEVICE CODE     O41.062   814X A10.DTR DS   DIRECTORY SECTOR     O41.111   816X A10.CNT DS   1   SECTOR COURT     O41.112   817X A10.EDD DS   1   SECTOR COURT     O41.113   816X A10.CNT DS   1   SECTOR COURT     O41.114   814X A10.TPT DS   2   TEMP FILE POINTERS     O41.115   816X A10.CDD DS   1   END OF MEDIA FLAG     O41.116   820X A10.CDD DS   1   END OF MEDIA FLAG     O41.117   816X A10.CDD DS   2   TEMP FILE POINTERS     O41.118   816X A10.CDD DS   2   TEMP FILE POINTERS     O41.119   820X A10.CDD DS   2   SYSTEM SCRATCH AREA ADDRESS      O41.110   822X S.SCR DS   2   SYSTEM SCRATCH AREA ADDRESS			ADDRESS OF GROU	P RESERV TABLE	****
041.050					
041.051 807X AIO.LEN DS I LAST GROUP NUMBER 041.052 806X AIO.LET DS I LAST SCROUP NUMBER 041.053 809X AIO.BIA DS 2 DEVICE TABLE ADDRESS 041.055 810X AIO.DES DS 2 DIRECTORY SECTOR 041.057 811X AIO.BEV DS 2 DEVICE CODE 041.061 912X AIO.DIN DS I UNIT NUMBER YO-9) 041.062 914X AIO.DIR DS DIRECTORY ENTRY 815X 041.111 814X AIO.CRT DS I SECTOR COUNT 041.112 817X AIO.CRD DS I END OF MEDIA FLAG 041.113 818X AIO.CRT DS I END OF MEDIA FLAG 041.114 819X AIO.CRT DS I END OF FLLE FLAG 041.115 820X AIO.CRA DS 2 ADDRESS OF CHANNEL BLOCK (IOC.DBA) 041.116 820X AIO.CRA DS 2 SYSTEM SCRATCH AREA ADDRESS					
041.052 808X AID.LEI DS 1 LAST SECTOR YNDEX 941.053 809X AID.DTD DS 2 DEVICE TABLE ADDRESS 941.055 810X AID.DES DS 2 DIRECTORY SECTOR 941.057 811X AID.DEV DS 2 DEVICE CODE 941.061 812X AID.UNI DS 1 UNIT NUMBER (0-9) 941.062 814X AID.DIR DS DIRELEN DIRECTORY ENTRY 941.062 814X AID.DIR DS DIRELEN DIRECTORY ENTRY 941.111 810X AID.CONT DS 1 ENTRY 941.112 817X AID.EDM DS 1 ENTRY 941.113 818X AID.EDM DS 1 ENTRY 941.114 817X AID.EDM DS 1 ENTRY 941.114 817X AID.EDM DS 2 TEMP FILE FOLWERS 941.114 817X AID.TEP DS 2 SYSTEM SCRATCH AREA ADDRESS 95 CHANNEL BLOCK (YOC.DDA)					
O41.055					• • • • • • • • • • • • • • • • • • • •
041.057	041.053	809X AID.DTA DS 2			
041.061 B13X A10.UNT DS 1 UNIT NUMBER (0-9) B13X 041.062 B14X A10.DIR DS DIRELEN DIRECTORY ENTRY  041.111 B16X A10.CNT DS 1 SECTOR COUNT 041.112 B17X A10.EDH DS 1 END OF MEDIA FLAG 041.113 B18X A10.EDF DS 1 END OF FILE FLAG 041.114 B19X A10.TF DS 2 TEMP FILE POINTERS 041.116 B20X A10.CHA DS 2 ADDRESS OF CHANNEL BLOCK (YOC.DDA)  041.120 B22X S.SCR DS 2 SYSTEM SCRATCH AREA ADDRESS		810X AIO.DES DS 2			• • • • • • • • • • • • • • • • • • • •
041.062   014X AIO.DIR DS   DIRELEN   DIRECTORY ENTRY		811X AIO.DEV DS 2	DEVICE CODE	21	
041.062 814X AIO.DIR DS DIRELEN DIRECTORY ENTRY 915X 041.111 816X AIO.CNT DS 1 SEND OF MEDIA FLAG 041.113 818X AIO.EOF DS 1 END OF FILE FLAG 041.114 819X AIO.TFP DS 2 TEMP FILE POINTERS 041.116 820X AIO.CHA DS 2 ADDRESS OF CHANNEL BLOCK (TOC.DDA)  041.116 820X AIO.CHA DS 2 SYSTEM SCRATCH AREA ADDRESS 041.120 822X S.SCR DS 2 SYSTEM SCRATCH AREA ADDRESS	041.061		UNIT NUMBER (0-	9)	
915.X 041.111	041.062		ėn		
041.111 814X A10.CNT DS 1 SECTOR COUNT 041.112 817X A10.EDM DS 1 END OF MEDIA FLAG 041.113 818X A10.EDF DS 1 END OF FILE FLAG 041.114 819X A10.TFP DS 2 TEMP FILE FOLINTERS 041.116 820X A10.CHA DS 2 ADDRESS OF CHANNEL BLOCK (TOC.DDA)  041.120 822X S.SCR DS 2 SYSTEM SCRATCH AREA ADDRESS	0411002		EN DIRECTORT ENTRY		
041.112 817X AIO.EON DS 1 END OF THE FLAG 041.113 818X AIO.EOF DS 1 END OF THE FLAG 041.114 819X AIO.FFP DS 2 TEMP FILE POINTERS 041.116 820X AIO.CHA DS 2 ADDRESS OF CHANNEL BLOCK (TOC.DDA)  041.120 822X S.SCR DS 2 SYSTEM SCRATCH AREA ADDRESS	041.111		SECTOR COUNT		•••
041.113				AG	
041.112 820X AIG.CHA DS 2 ADDRESS OF CHANNEL BLOCK (IGC.DDA)  041.120 822X S.SCR DS 2 SYSTEM SCRATCH AREA ADDRESS	041.113	818X AIO.EOF DS 1			•••
041.120 822X S.SCR DS 2 SYSTEM SCRATCH AREA ADDRESS			TEMP FILE POINT	ERS	
	041.116	820X AIO,CHA DS 2	ADDRESS OF CHAN	NEL BLOCK (IOC.DDA)	
	041.120	822X S.SCR DS 2	SYSTEM SCRATCH	AREA ADDRESS	••••
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ENTRY POINT		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •			HEATH H8ASM V1.4 01/20/78 PAGE 18 14:20:03 16-MAY-80
			····	· · · · · · · · · · · · · · · · · · ·			
			825 826		CODE	PIC	POSITION INDEPENDANT CODE
	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	827	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
				***	HBOSOVL	2.SYS - HD	DOS MOUNT/DISMOUNT PROCESSOR
	• • • • • • •	• • • • • • • • • • • • • •	829	*			
			830		HDOSOVL	2 PROCESSE	ES MOUNT/DISMOUNT SYSCALL FUNCTIONS.
			831	*			
		· · · · · · · · · · · · · · · · · · ·	832. 833.		**********	<u> </u>	
			834		ENIRY	(SP) =	
• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	835			(SP+2) = (SP+4) =	- VAL/
			836	*		(S.CACC)=	= USER (ACC)
• • • • • • • • • • • • • • • • • • • •			837	··*·····	• • • • • • • • • • • • • • • • • • • •		- estr thee?
			838	*	EXIT:	TO (SP+4)	
			839	·.*		(řŚW) =	= 'C' CLEAR IF OK
			840				'C' SET IF ERROR
			841				(A) = ERROR CODE
• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • • • • • • •	842 843		USES:		
			844		0969+	ALL	
• • • • • • • • • • • • • • • • • • • •	• • • • • • •		845		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
000,006			846	HOSOVL2	POP	PSW	(A) = CODE
000,007			847	• • • • • • • • • • • • • •	ŠÜİ	TÀUOM	
000.011	322	021 000	848		JNC	HOS2	COMMAND IS IN RANGE
			849				
• • • • • • • • • • • • • • • • • • • •			. 850	*	<b>СОЙМӨЙ</b> Ъ	ERROR	
000.014	741		851 852	HOS1	505		
000.015		003	852. 853	ERRILC	.POP MVI	HA,EC,ILC	RESTORE USER HL ILLEGAL CODE
000.017			854	CINILO	STC	H7EC+ILC	ILLEGAL CODE
000.020	311		855		ŘĚŤ		EXIT WITH ERROR
			856				
000.021			857	H0\$2	CPI	HOSVECL	SEE IF IN RANGE
000.023	322	014 000	858		TNC	HOS1	NOT IN RANGE
000.028	207	046 000	859		LXI	H,HOSVEC	
000.032		101 030	860 861	• • • • • • • • • • • • • • • • • • • •	. ADD . CALL	A ≸DADA.	(A) = 2*CODE
000.035		201 000	862		MOV	<b>₽₽</b> ₩₽₩.	
000.036			863	• • • • • • • • • • • • • • • • • • • •	INX	· ;; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	
000.037			864		MOV	Н•М	
000.040			865		MOV	L,A	
000.041		MAN I MAN I	866.		XTHL		((SP)) = PROCESSOR ADDRESS, (HL) = USER HL
000.042 000.045		006 041	867		LDA	S.CACC	(A) = USER ACC
	. 3.1.1	•••••	868 869		RET		ENTER PROCESSOR
000.046			870	HOSVEC	กร	0	HIMD HECTORE
· · · · · · · · · · · · · · · · · · ·	• • • • • • •		871				JUMP VECTORS
000.000			872		ERRNZ	*-HOSVEC/	(2+,MOUNT-,MOUNT
000.046	060	000	873		DW	MOUNT	· · · · · · · · · · · · · · · · · · ·
			874		<u> </u>		
000.050	114	000	875		ERRNZ	*-HOSVEC/	2+,MOUNT-,DMOUN
000.050			. 876		. DW	DWOUN	
000.000			877 878		CODNY	w_uncure o	701 MOUNT WOMEN
000.052	147	000			ERRNZ	*-HUSVEC/	/2++MOUNT-+MONMS
VVV+VJ2		<del>-</del>			A- W	HOURTIO	
000.032			880				

SECOND HDOS OVERLAY ENTRY POINT		HEATH H8ASM V1.4 01/20/78 14:20:04 16-MAY-80	PAGE 19
	ERRNZ *-HOSVEC/2+.MOUNT DW DMONMS	TMNMS	
000.054 244 000 882 883			
000.000 884 000.056 025 001 885 886 000.005 887 HOSVECI	ERRNZ *-HOSVEC/2+.MOUNT	-•RESET	
886 000.005 887 HOSVECI	. EQU *-HOSVEC/2 Mi	AX FUNCTION INDEX	
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	······································		

SECOND HDOS OVERLAY ENTRY POINT					MOUNT	HEATH H8ASM V1.4 01/20/78 14:20:05 16-MAY-80	PAGE	20
·····								
	890 891	*** *	TAUOM	- MOUNT DISK				
	892	*	TAUON	DISK ON SPECIF	ED UNIT OF SE	ELECTED DEVICE		
	893 894				• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
	895		ENTRY:	(HL) = ADI	RESS OF DEVI	CE SPECIFICATION		
	896	*	• • • • • • • • • • • • • • • • • • • •	******************			• • • • • • • • • • • • • • • • • • • •	
	897 898	***************************************	EXIT:		SET IF ER			
	899				)) = ERROR CO CLEAR IF NO			
	900				CLEAR IF AN		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	901 902	*	USES:					
	. 903		USES.	HCL				
	904	*	MODIFIC	CATIONS: 3/6/7	9 B. WATZMAN	TO ALLOW MOUNTING		
• • • • • • • • • • • • • • • • • • • •	905.	*		syo:	IF NOT CURREN	YTLY MOUNTED		
000.060	906 907	TAUQMT	. EQU	*				
000.001	908		IF	DEBUG				
• • • • • • • • • • • • • • • • • • • •	909 910		CALL	\$TYPTX				
	911		ENDIF	'WE ARE IN MO	IUNI FNL			
000.060 315 147 000	912		CALL	MOUNMS				
000,063 330	213.		RC			· · · · · · · · · · · · · · · · · · ·		
000.064 300 000.065 315 215 002	914 915		RNZ CALL	GETLAR	THERE WAS	AN ABORT FOR MESSAGE		
000.070 330	916		RC		95%.BTMFB.	. I.ON TIESONOE		• • • • • • • • • • • • • • • • • • • •
000.071 041 101 000 000.074 315 254 002	917			Ĥ•ĤōNO				
909.077 257	918 . 919.		CALL XRA	IMM A	ISSUE MESS	BAGE FLAG.FOR.NO.ABORT		
000.100 311	920		RET			. 408 . 7.41 . 140 . 0401 (		• • • • • • • • • • • • • • • • • • • •
	921			,,,,,,,,,		•••••		
000,101 115 157 165		MOUA	DB	'Mounted on',	, ,+500d			
								••••••
			Toko (1)	***************************************			• • • • • • • • • • • • • • • • • • • •	
•••••••••••••••••••••••••••••••••••••••	925	<u>የ</u> ም. የ	XUUUVN	NtSQRON!tr				
	926		NUOMBIO	YT DISK ON SELE	CTED DRIVE			
	927 . 928							
•••••••••••••••	,7.49 929		IF AN	ATTEMPT IS MAI	E TO DISMOUNT	SYO: THEN		
	930	*	FORC	E OVERLAY IN I	F. THERE IS RO	мом		
	931							
••••••	932 933		ENTRY:	(HL) = ATIT	RESS OF DEUT	CE SPECIFICATION		
	934	*						
	935 936		EXIT:	(PSW) = 'C'				
***************************************	<del>730</del>	*	· · · · · · · · · · · · · · ·		) = ERROR CC	JUE		
	938	*	USES:	ALL				
	939						• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
•••••	940 941		WANTEIC	AILUNS: 3/6/7	Y BY B. WATZM	1AN TO ALLOW DISMOUNT STD. OVERLAY & THIS CODE		
	942				OTH RESIDENT			
				· · · · · · · · · · · · · · · · · · ·	TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE			

	Y POINT.						DMOUN	HEATH H8ASM V1.4 01/20/78 14:20:07 16-MAY-80	PAGE 21
	000.114			943 944	DMOUN	EQU	*		
	000.114			945		IF	DEBUG	•••••	
	• • • • • • • • • • • • • • • • • • • •			946 947	· · · · · · · · · · · · · · · · · · ·	CALL	\$TYPTX 'WE ARE IN DMOUN', ENL		
				948		.ENDIF	DMONMS		
	000.114	315 2	244 000	949 950		RC	TUUNUS		
	000,117	041 1	27 000	951	• • • • • • • • • • • •	LXI	H,DMOA		
• • • • • • • • • • • • • • • • • • • •	000.123	315.2	254, 002.	952. 953		RET	Імм		
				954.		DB			
	000.127	104 1	151 163	955	DMOA	DB	'Dismounted from',' '+200Q		
		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				
		• • • • • • • • •			• • • • • • • • • • • • • • • • • • • •				

ENT	RY POINT							HEATH H8ASM V1.4 01/20/78 PAGE 22 MOUNMS 14:20:07 16-MAY-80
• • • • • • • • • • • • • • • • • • • •			•••••	958	***	· ANIINAS		IT/NO MESSAGE
				959	**			
				960 961	*	MOUNT	SPECIFIE	D UNIT OF SELECTED DEVICE WITHOUT ISSUING MOUNT MESSAGE.
	• • • • • • • • • • • • • • • • • • • •				<u>^.</u> : ∗	IF AN	ATTEMPT	IS MADE TO MOUNT SYO: AND IT IS A SYSTEM DISK
· · · · · · · · · · · ·					**	MOUNT	T. A. NEW.	SYSTEM DISK
				964 965	*	ENTRY:	(A)	- MIMPER OF DICK COUCUT (A COD ANY DICK)
		• • • • • • • • •		966	*		…}∄(	= NUMBER OF DISK SOUGHT (O FOR ANY DISK). = ADDRESS OF DEVICE SPECIFICATION
					* <del>*</del>			
				969		EXIT:	(PSW)	= 'C' SET IF ERROR (A) = ERROR CODE
			• • • • • • • • • • •	970	*	• • • • • • • • • • • • • • • • • • • •		'C' CLEAR IF NO ERROR
• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			971 972				/Z/ CLEAR IF THERE WAS AN ABORT
					* *	USES:	Δ1.1	
				974	*	TATK!	· · · · · · · · · · · · · · · · · · ·	
	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • •	975				
	.000.147.	365		976 977		PUSH	F'SW	
	000.001			978		IF	DEBUG	
		· · · · · · · · · · · ·		979		CALL	\$TYPTX	
				980 981		DB ENDIF	'In MO	UNMS',ENL
	000.150			982		CALL	CDM	
• • • • • • • • • •	.000.153.	332	242000	983		.J <u>C</u>	MOU3	IF AN ERROR IN DEVICE NAME
	000.156	312 1	.00 000	984 985		JZ	MOU1	DEVICE IS NOT MOUNTED
	000.161			986		FOF	PS₩	
• • • • • • • • • • • • • • • • • • • •	.000.162			987		.ș <u>.</u> ç		
	.000.165 .000.165			988 989		MVI RET	A,EC,V	
			• • • • • • • • • • • • • • • • • • • •	990		. (\\- /	•••••	
• • • • • • • • • • •	.000.166	361			MOV1	.POP	FSW	
	.000.170			992 993		PUSH PUSH		
			• • • • • • • • • • •	994		99!!		
• • • • • • • • •	.000.171. 000.174	3152	203001	995		.CALL	ÇAB	
	.000.177			996 . 997		JNZ CALL	MOU2.5	THERE WAS AN ABORTWRITE ENABLE RAM
	000.202	315 3	65 002	998		CALL	MND	MOUNT NEW DISK
• • • • • • • • • • • • • • • • • • • •	000,205			999		.CC	<u>MOU2</u>	IF ERROR
	000.210			1000		CALL	PGT MOU2	PROCESS GRT ERROR
	000.216	315 1	05 004	1002	• • • • • • • • • • • • • • • •	CALL	CDS	CLEAR DIRECTORY SPACES
	.000.221	3342	33.000	1003		.cc	MOU2	ERROR
	000.224	301		1004		POP	R	
	000,225	341	• • • • • • • • • • • •	1006		POP	В Н	
• • • • • • • • • •	000.226	170		1007		MOV	A,B M	
	000.227	167		1008 1009		ORA MOV	м М+А	SET MOUNTED
••••••			• • • • • • • • • • • • •	1010	• • • • • • • • • • • • • • •			
• • • • • • • • • • • • • • • • • • • •	000.231	. 257		1011		XRA	A	SET ZERO FLAG TO INDICATE NO ABORT
	~~~ £3£	211		1012 1013		RET		
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ENTRY POINT					MOUNMS	HEATH HBASM V1.4 01/20/78 14:20:09 16-MAY-80	PAGE	23
000.233	376025			EC.WP	SEE IF ERROR WA	S DUE TO WRITE PROTECT		
000,235	0.9.3	1015		SP	YES, CONTINUE A	S IF NO ERROR EAL ERROR		
000,237	· ·067· · · · · · · · · · · · · · · · · · ·	1017	STC	SP	SO RESET THE ST	ACK ND FALL THROUGH TO MOU2		
000,241 000,242	341	1019 MOU2.5 1020 MOU3	`POF````	н В	ERROR RETURN	••••••	• • • • • • • • • • • • • • • • • • • •	
000.243		1021	RET	••••				
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SECOND HDOS OVERLAY ENTRY POINT		•••••		HEATH H8ASM V1.4 01/20/78 PAGE 24 IMONMS 14:20:09 16-MAY-80
	1024 ***	DMONMS	- DISMOUNT DEV	ICE/NO MESSAGE
	1025 * 1026 *	***************	394	TAPTARPRIPART WANTER TWANTER TEXTILITIES AND TO THE TOTAL TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILITIES AND THE TEXTILIT
	1025 *	MESSAG	E Wi perecien nuti	OF SPECIFIED DEVICE WITHOUT ISSUING DISMOUNT
	1028 *			
	1029 *	IF AN	ATTEMPT IS MADE RCE IN OVERLAY	TO DISMOUNT SYO: THEN
	1031 *		SMOUNT OPERATING	SYSTEM
	1032 * 1033 *			
	1033 *	ENTRY:	(HL) = ADDR	ESS OF DEVICE SPECIFICATION
	1035 *			
	1036 * 1037 *	EXIT:		SET IF ERROR
	1038 *	•••••		= ERROR CODE
	1039 *	USES:	ALL	
	1040 * 1041			
000.244	1042 DMC	NMS EQU	*	
	1043	IF CALL	DEBUG \$TYPTX	
	1045	DB	'In DMONMS', EN	
	1046	ENDIF		
	1047 1048	CALL	\$SOB H	SKIP OVER LEADING BLANKS SAVE DEVICE ADDRESS
000.250 315 263 001	1049	CALL	CDM	CHECK FOR DEVICE MOUNTED
	1050	POP	D	(DE) = DEVICE ADDRESS
000.254 330 000.255 302 264 000	1051 1052	RC JNZ	DMO1	ERROR IN DEVICE SPECIFICATION MOUNTED
000,260 076 042	1053	MVI	A.EC.NVM	NO VOLUME PRESENTLY MOUNTED
	1054 1055	STC		
	1056	RET	• • • • • • • • • • • • • • • • • • • •	
• • • • • • • • • • • • • • • • • • • •	1057 *	OK TO	DISMOUNT	
	1058 1059 DMO	1 CALL	COF	CHECK FOR OPEN FILES ON THE DEVICE
000.267 330	1060	ŘC ŘC		SHOULD NOT DISMOUNT A DISK WITH OPEN FILES.
	1061	PUSH	<u>В</u>	SAVE INDEX
	1062 1063	PUSH LDA	H UNIT	SAVE DEV.MUM ADDRESS
000.275 062 061 041	1064	STA	AIO.UNI	SET UNIT NUMBER
	1065 1066	ANA JNZ	<u>A</u>	NOT DISMOUNTING SYO:
000.304 052 350 040	1067	LHLD	S.OFWA	(HL) = FWA OF OVERLAY TABLE
	1068	LXI	D.OVLO*OVL.ENS	FOVL + FLB
	1069 1070	DAD MVI	II A,OVL.RES	(DE) = ADDR OF FLAG BYTE
000.315 246	1071	ANA	M	
	1072 1073	JŽ	DMO4	OVLO NOT PERM. RESIDENT
• • • • • • • • • • • • • • • • • • •	1073	DAD	D,OVL.ENS	
	1075	ANA	M	
000.326 312 017 001	1076 1077	JZ	DMO4	OVL1 NOT PERM. RESIDENT
	1077 1078 DHO	2 LHLD	UNTTÄB	

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	POINT.	OVĖRI					•••••	HEATH HBASM V1.4 01/20/78 PAGE 25 DMONMS 14:20:14 16-MAY-80
	0.337		000	1080		DW	UNT.GTS	
	0.341	325	. 247 . 242	1081		PUSH	D \$INDL	
			234 030			CALL		DE = GRT RAM ADDRESS
	0.345	001.	.000	1083			UNT.GRT	
000	0.347	341		1084		POP	Н	HL = GRT SECTOR
	Y+FY	· XAY	000 001	1085		XI	8:867	(BC) = COUNT
	0.353	076		1087		MVI	B,256	(BC) = COOM
	X.25E.		130 040			CALL	A,DC.WRI SYDD	WRITE GRT BACK TO DISK
	0.360	341	130 040	1089		POP	H	WATTE ORT BACK TO DISK
	0.361			1090			B	·····
	0.362			1070		MOV		
	0.363	·:	• • • • • • • • • • • • • • • • • • • •	1071		CMA	A,B	
	0.364	246				ANA	M	
	0.365			1093 1094			M	CLEAR BIT SHOWING MOUNT
			233 002			CALL	GETLAB.	
	0.371	330	.499994	1096		Y055 RC	9515781	ERROR
	0.372		127 000			LXI	H,DMOA	ERROR
	0.375	072	320 005	···i098		LDA	UNIT	
	1.000			1099		ANA	A	
	1.001			1100		RNZ		WAS NOT SYO:
				1101				*****
• • • • • • • • • • • • • • • • • • • •				1102		FLAG S	YSTEM DISMOUNT	ED
				1103				<del></del>
00	1.002	072	032 041			LDA	S.MOUNT	
00	1.005	247		1105		ANA	A	
00	1,006	310		1106	• • • • • • • • • • • • • • • • • • • •	ŔŻ		FLAG SYSTEM DISMOUNTED
00	1.007	315	035 002	1107		CALL	CDT	CLEAR DEVICE TABLE
00	1.012	257		1108		XRA	A	
00	1.013	062	032 041	1109		STA	S.MOUNT	FLAG SYSTEM DISMOUNTED
00	1.016	311		1110		ŘEŤ		
				1111				
				1112		TRIED	TO DISMOUNT SY	O: WITH SY1: STILL MOUNTEED
				1113				
	1.017				DMO4	POP	H	
00	1.020	301		1115		POP	B	RESTORE REGS.
	1.021			1116		MVI	A,EC.NPM	NO PROVISION MADE FOR REMOUNTING HDOS
	1.023		<b>.</b>	1117		<u>STC</u>		
00	1.024	311		1118		RET		
• • • • • • • • • • • • • • • • • • • •		••••			• • • • • • • • • • • • • • • • • • • •		•••••	
• • • • • • • • • • • • • • • • • • • •								

SECOND HDOS ( RESET	JVERLAY					HEATH H8ASM V1.4 01/20/78 PAGE 26 RESET 14:20:14 16-MAY-80
• • • • • • • • • • • • • • • • • • • •		1122	***	RESET	- RÉSÉT DÉVICE	E
		1123				
		1124 1125	*	RESET 1	HE SPECIFIED UN	NIT OF THE SELECTED DEVICE
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1126		IF THE	DEVICE NAME IS	NT FOLLOWED BY A MOUNT. <null>, THEN RESET SYO: AND SY1:,</null>
• • • • • • • • • • • • • • • • • • • •		1127	*	OTHERWI	SE, THE DEVICE	NAME SHOULD BE IN THE SAME FORMAT AS
		1128	*	THAT	RPECTED BY MOUNT	T & DMOUN
		1129	<u>*</u>	• • • • • • • • • • • • •		
		1131	*	ENTRY:	(HL) = ADI	DRESS OF DEVICE SPECIFICATION
```		1132	*			
		1133	· <u>*</u>	EXIT:	(PSW) = /C/	' CLEAR IF NO ERROR
		1134	*		' ''	SET IF ERROR
••••••		1136	·.*		• • • • • • • • • • • • • • • • • • • •	(A) = ERROR CODE
	•••••	1137	*	USES:	ALL	
		1138 1139	*			
001.025	• • • • • • • • • • • • • • • • • • • •	1140	RESET	EQU	*	
001.025	315 247 005	1141		CALL	\$SOB	
001.030		1142		MOV	A+M	
	247 302 060 001	1143		ANA JNZ	. A	A
001.035	041 171 001	1145		LXI	RES1 H,RESA	CALLER SUPPLIED DEVICE NAME
001.040	315 025 001			CALL	RESET	RESET SY1:
001+043		.1147.		RC		
	072 334 040 247	1148 1149		LDA ANA	S.CAADR+1	
	300	1150	• • • • • • • • • • • • • • • • • • • •	RNZ	.A	THERE WAS AN ABORT
001.051	041 176 001	.1151		LXI	H,RESB	
	315 025 001 311	1152 1153		CALL	RESET	RESET SYO:
	S.t.t	1154		RET	• • • • • • • • • • • • • • • • • • • •	
001.060	345	1155	RES1	PUSH	Н	
001.061 001.064	315 114 000			CALL	DMOUN	
	322 077 001	1157 1158	• • • • • • • • • • • • • • • • • • • •	POP JNC	H RES2	NO ERROR
001.070	376 042	1159		CPI	EC+NVM	NO ENNOR
	312 165 001	1160		JZ	RES3	NO VOLUME MOUNTED ERROR NOT CONSIDERED FATAL
001.075		1161.		STC		FLAG ANY OTHER ERRORS AFTER CPI MAY HAVE
		1163		RET		CLEARED FLAG
	315 136 031	1164	RES2	CALL	*TYPTX	
	012 007 120	1165		DB	NL,BELL, 'Fleas	se Replace Diskette in Drive',' '+200Q
001.145 001.146	345 -076 004	1166 1167		PUSH MVI	н	
	315 265 005	1168	• • • • • • • • • • • • • • • • • • • •	CALL	A, IOC, UNI-IOC, \$TYPCC	*DEYTZ
	315 136 031	1169	• • • • • • • • • • • • • • •	CALL	\$TYPTX	
001.156 001.160	012 212 315 273 004	1170 1171		ĎB	NL, ENL	HATT FOR PRINT TO THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE TAXABLE PRINTS OF THE
	341	1172		CALL	. WDO	WAIT FOR DRIVE TO OPEN
001.164	300	1173		RNZ		AN ABORT IS PENDING
	315 060 000		RES3	CALL	MOUNT	
001.170	311	1175 1176	• • • • • • • • • • • • • • • • • • • •	RET		
001.171	123 131 061		RESA	DB	/SY1:/+0	
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SECOND HDOS OVERLAY RESET	RESET	HEATH H8ASM 01.4 01/20/78 14:20:17 16-MAY-80	PAGE 27
001.176 123 131 060 1178 RESB DB 'SYO			,
001.176 123 131 000 1178 KESB DB 9503			
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			***************************************
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SEC SEC	ROUTINES.			· • • • • • • •					CAB.	HEATH H8ASM V1.4 14:20:17 16-MAY-8		PAGE	28
		<i></i>								N			
					1182 1183		CAB	- CHECK ABORT					
		• • • • • • •	• • • • • •	• • • • • • •	1184		CAR WA	ITS FOR A REVOLU	ITTON OF THE	DISK WHILE MONITORING TH	1E	• • • • • • • • • • • • • • • • • • • •	
					1185		ABORT I	FLAG. AFTER ONE	COMPLETE RE	M. ANY ATTEMPTS TO ABORT	Γ.		
					1186		ARE FU	TILE.					
		<b>.</b>		<i>.</i>	1187								
					1188								
• • • • • • • • • • •			• • • • • •	• • • • • • •	1189		ENTRY	NONE				• • • • • • • • • • • • • • • •	
					1190 1191	*	EXIT	(00U) = /7/	CLEAD TE	TO ADDET			
		• • • • • • •	• • • • • •	• • • • • • •	1192		E^#.!		CLEAR IF	TO ABORT			
					1193			- 2	SEL IL ME				
					1194		USES	(PSW),(D)		•••••	• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·
						*							
					1196								
. <b></b>	.001.203	0.26.	.014			CAB	MVI	D,12	WAIT FOR 1	2.HOLES, OR AT LEAST ONE	RPM .		
					1198								
						*	WAITF!	OR.A.HOLE.TO.PAS	S				
	001 005	715	274	001	1200	0.4.0.4	0417	0.45					
• • • • • • • • • • • • • • • • • • • •	.001,205.				1202	··· /- HRI	ĿŖĻĻ RNZ	CAB.	AN ADDET T	······································			
	.001.210				1203		ANI	DF.HD	AN ABORT I				
	001.213					• • • • • • • • • • • • • • • • • • • •	JNZ	CAB1	HE ARE HAT	CHING A HOLE	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •
					1205		W11.	W/ 1 W/ A	WE THIE WITH	CHING A NOCE			
					1206		WAIT F	OR A GAP TO PASS	;		•••••		•••••
					1207.								
	001.216					CAB2	CALL	CAB.				,	
	991221.				1,209.		RNZ		AN.ABORT.J	S PENDING		• • • • • • • • • • • • • • • • • • • •	
	001.222			001	1210		ANI	DF.HD					
	001224.		.4.4.P.	.vv	4641. 1212	• • • • • • • • • •	JZ		WE.AKE.WAI	CHING A GAP			
	001.227.	025					nce	T)	COUNT THE	TEAMETTICAL			
• • • • • • • • • • • •	001,230			001	1214	•••••	JNZ	CAB1	VXVXII Л. F.	TRANSITION	• • • • • • • • • • • • • • • • • • • •		
	.001.233								AT LEAST C	NE.RFM. AND NO ABORT			
					1216					va.mmve.nego			
	.001.234.	373.			1217	CAB,							
	001.235				1218		PUSH	B					
· · · · · · · · · · · · · · ·	001236.	<u>972</u> .	.320.				LDA	T.MU				• • • • • • • • • • • • • • • • • • •	
	001.241				1220		VOM	B,A					
• • • • • • • • • • • • • • • • • • • •	.001,242.		•••••	• • • • • • •	1221. 1222		IŅR XRA	<u>B</u>	• • • • • • • • • • • • • • • • • • • •				
	.001.243		373	004			XKA CALL	A RITS	CET THE DE	ווזרב הזד			
	000.000		· Y7.Y.	. Y M. 7	1224	• • • • • • • • • • • • • • • • • • • •	ERRNZ	DF • DSO-2	9511 <b>05</b> 45	VICE BIT	• • • • • • • • • • • • • • • • • • • •		
· · · · · · · · · · · · · · · · · · ·	.000.000				1225.		ERRŅZ						
	000.000				1226		ERRNZ	DF • DS2-8		•••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
· • • • • • • • • • • • • • • • • • • •	001.247	. 366	.020		1,227.		ORI	DF•MO					
	001.251				1228		OUT	DF.DC	ON MOTOR,	AND DRIVE SELECT			
	001.253		.334		1229		LDA	S.CAADR+1					
	001.256		177		1230		ANA	A DO DO		*			
• • • • • • • • • • • •	001.257		. <del>!</del>	• • • • • • •	1231 1232	• • • • • • • • • • • • • • • • • • • •	IN POP	DF - DC					
	001.262				1233		RET	D					
			• • • • • • •						• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			
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SECOND HDOS OVERLAY SUBROUTINES				HEATH H8ASM V1.4 01/20/78 14:20:19 16-MAY-80	PAGE 29
	1 H4ETE	COM - CHECK FOR DEVIC	er samatet		
	1235 ** 1236 *	. CDM - CHECK FOR DEVIC	E MOONTED.		
	1237 *	COM REFORMATS THE SUF	PUTED DEVICE SPECIA	TCATION	
	1238 *	INTO A 6 CHARACTER FI	ELD OF THE FORMAT		
	1239 *			***************************************	••••••••
	1240 *	D E V : <00> <enl></enl>			
	1241 *	TH /BEINAME/			
	1242 * 1243 *	IN 'DEVNAME'			•••••
	1244 *				
	1245 *	ENTRY (HL) = ADI	RESS FOR DEVICE SPE	CIFICATION	
	1246*				
	1247 *		CLEAR IF NO ERROR		
	1248*		B) = BIT INDEX FOR ]	HE SPECIFIED UNIT	
	1249 *		IL) = ADDREESS OF DE Z' SET IF NOT MOUNTE		4
	1250* 1251 *		CLEAR IF MOUNTED	·M	•••••
	1252 *	= 'C'	' SET IF ERROR		
	1253 *	(4	4) = ERROR CODE		
	1254*	<u> </u>			
	1255 *	USES ALL			
	1256*				••••••
001.263 315 247 005		CALL \$SOB	SKIP BLANKS		
000.001	1259	CALL \$SOB IF DEBUG		***************************************	
	1260	CALL TRACE			
	1261	DB 'IN CDM',E	ENL		
	1262	ENDIF.			
	1263 1264	MOV A,M CALL \$MCU	MAP TO UPPER CAS	\$F	
001.272 376 123	1265	CPI 'S'	CHECK 'S'		***************************************
001,274 302 025 002		JNE CDM2	ERROR		
001.277 043	1267	INX H			• • • • • • • • • • • • • • • • • • • •
	1268	MOV ArM		<u>,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	1269	CALL \$MCU	MAP TO UPPER CAS	SE ,	
001.304 376 131 001.306 302 025 002	1270	CPI 'Y' JNE CDM2	NOT 'Y'		
	1272	INX H	17 W 1 1		
	1273	MOV A+M	• • • • • • • • • • • • • • • • • • • •		
001.313326.060		\$UI	,		
001.315 332 025 002		JC CDM2			
001.320.374.003	1276	CP.I3			
001.322 322 025 002 001.325 043	1277 1278	JNC CDM2 INX H			
	1279	+!\^	(B) = UNIT		••• ••••
001,327 062 320 005		STA UNIT	· - · · · · · · · · · · · · · · · · · ·		
001.332 306 060	1281	ADI 'O'			
001.334 062 033 002	1282	STACDMB		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	1283	MOV A,M			
001.340 376 072 001.342 302 025 002	1284	CPI /:/ JNE CDM2	ÉRROR		•• •••••
	1286	SIKE ODITE	ENNON		
	1287 *	GOT VALID DEVICE.		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	1288 *				
	1289 *	(B) = UNIT NUMBER			
	1290				

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SECOND HOOS OVERLAY	*****		
SUBROUTINES			HEATH H8ASM V1.4 01/20/78 PAGE 30 CDM 14:20:20 16-MAY-80
••••••			474444
			410,4,0,0,0
	1291 * 1292	SET-UP	TABLE BASES
001.345 052 354 040	1293	LHLD	S.DFWA
001,350 042 321 005	1294	SHLD	DEVTAB
001.353 021 012 000		LXI	D. DEV. UNY
001.356 031	.1296	DAD	D
001.357 072 320 005 001.362 315 027 041	1297 1298	LDA CALL	UNIT S.GUP
001,365 042 323 005	1299	CALL SALD	UNTTAB
VV27000 V72 020 700	1300	OTTEL.	ONTINE
001.370 305	1301	PUSH	В
	1302	CALL	\$MOVEL
	1303	I:W	4,CDMA,DEVNAME COFY NAME
002.002 301 002.003 052 321 005	1304	POP	B (B) = UNIT NUMBER
002.003 032 321 003	1305 1306	LHLD LXI	DEVTAB D.DEV.MUM
002.011 031	1307	DAD	D D D D D D D D D D D D D D D D D D D
	1308	LDA	UNIT
002.015 107	1309	MOV	B,A
002.016 257	1310	XRA	.A
002,017 315 373 004		CALL	BITS SET THE UNIT BIT
002.022 107 002.023 246	1312	VOM ANA	B;A M SET FLAGS
002.023 240	1314	RET	n SEI FLAGS
	1315	: ١٩٣٠	
	1316 *	ERROR	
	1317		
002.025 076 005	.1318 CDM2	MYI	A:EC:INS
002.027 067 	1319 .1320	STC RET	
XVA1XVXVX1	1321	N\$J	
	.1322CDMA	DB	/\$Y/
002.033 061 072	1323 CDMB	DB	/\$Y/ /1:/
••••••			
	***************************************		
	. 1325 **	coz	CLEAR DEVICE TABLE
	1326 ×		$\cdot$
•••••	1327 *		DRIVERS ARE IN MEMORY, FLAG THEM PERMANENTLY RESIDENT, SE, REMOVE THEIR ENTRY FROM THE DEVICE LIST.
	1329 *	O MILKWI	SEP REMOVE THEIR ENTRY FROM THE DEVICE LIST.
	1330 *		
	.1331 *	ENTRY:	NONE
	1332 *		
•••••	1333 * 1334 *	EXIT:	NONE
	1334 * 1335 *	USES:	ALL
***************************************	1336 *		
	1337		
002.035 052 354 040		LHLD	S.DFWA
	1339		
002.040 176 002.041 247	1340 CDT1 1341	MOV	A+M A
002.042 310	1342	ANA RZ	A TO THE END OF THE DEVICE TABLE
000.000	1343	ERRNZ	DV.EL
	• • • • • • • • • • • • • • • • • • • •		
	• • • • • • • • • • • • • • • • • • • •		

SECOND HDOS OVERLAY SUBROUTINES					CDT	HEATH H8ASM V1.4 01/20/78 14:20:21 16-MAY-80	PAGE 31
	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	5.7%		
002.043 376 00	i 134	<b></b>	CPI				
002.045 312 07			JZ	CDT3	THIS ENTRY NOT	TN LICE	
002.050 345	134		··řůsh····	н	SAVE FWA OF DEV	IN USE	
002.051 021 00			LXI	D.DEV.RES	SHAF LAN OL DEA	TOE ERIKI	
002,054 031	7		DAD	D D	(DE) = ADDRESS	OF DEV.RES FLAGS	
002.055 176	134		MOV	A+M	(DE) - HEENEGO	OF PEASONES LENGS	
002.056 346 00	i 135		ANI	DR.IM			
002.060 312 07			JZ	CDT2	DRIVER NOT IN M	FMORY	
002.063 176	135		' MÖV	AyM			
002.064 366 00			ORI	DR.IM+DR.PR	FLAG IN MEMORY	AND PERMANENTLY RESIDENT	
002.066 167	135	4	HOV	M,A		***************************************	•••••
002.067 341	135		POF	H			
002.070 303 07			JMP	CDT3	• • • • • • • • • • • • • • • • • • • •	***************************************	• • • • • • • • • • • • • • • • • • • •
		7				e e	
002.073 341	135		POP		• • • • • • • • • • • • • • • • • • • •	***************************************	
002.074076.00			MYI	A.P.Y.NU	FLAG. DÈVICE ENT	RY NOT USED	
002.076 167	136		∵₩ŏŷ·····	Mad		Programme Company Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con	• • • • • • • • • • • • • • • • • • • •
	136	1					
002,077 021 01	7 000 136	2 CDT3	LXI	D, DEVELEN		•••••	
002,102 031	136	.3	DAD	D			
002.103 303 04			JMP	CDT1	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••
	134	6. **		- CHECK OUTPUT	T.FILE		
	136	7 *				, FILES.	
	136	7 *			T FILE EVICE FOR ANY OPEN	(FILES.	
	136	7 * 8 * 9 *				FILES.	
	136 136 136	7 * 8 * 9 *		THE SPECIFIED DE			
	136 136 137 137 137	7 * 8 * 9 * 0 * 1 *	CHECK 1	THE SPECIFIED DE	EVICE FOR ANY OPEN DRESS OF DEVICE SF	ECIFICATION	
	136 136 137 137 137 137	7 * 8 * 9 * 0 * 1 * 2 *	CHECK ]	THE SPECIFIED DE  (DE) = ADI  (PSW) = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SP CLEAR IF NO OPEN	ECIFICATION FILES	
	136 136 137 137 137 137 137	7 * 8 * 9 * 0 * 1 * 2 * 4 *	CHECK 1	THE SPECIFIED DE  (DE) = ADI  (PSW) = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SP CLEAR IF NO OPEN	ECIFICATION	
	136 136 136 137 137 137 137	7	CHECK ] ENTRY: EXIT:	(DE) = ADI  (PSW) = 'C'  = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SP CLEAR IF NO OPEN	ECIFICATION FILES	
	136 136 137 137 137 137 137 133	7 *	CHECK ] ENTRY: EXIT:	THE SPECIFIED DE  (DE) = ADI  (PSW) = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SP CLEAR IF NO OPEN	ECIFICATION FILES	
	136 136 137 137 137 137 137 137 137	7	CHECK ] ENTRY: EXIT:	(DE) = ADI  (PSW) = 'C'  = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SP CLEAR IF NO OPEN	ECIFICATION FILES	
	136 136 137 137 137 137 137 137 137 137	7	CHECK TENTRY: EXIT: USES:	(DE) = ADI (PSW) = 'C' = 'C' (PSW),(DE)	EVICE FOR ANY OPEN DRESS OF DEVICE SP CLEAR IF NO OPEN	ECIFICATION FILES	
002.106 305	136 136 137 137 137 137 137 137 137 137 137	7	CHECK TENTRY: EXIT: USES: PUSH	(DE) = ADI  (PSW) = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SP CLEAR IF NO OPEN	ECIFICATION FILES	
	136 136 137 137 137 137 137 137 137 137 137	7	ENTRY: EXIT: USES: PUSH PUSH	(DE) = ADI (PSW) = 'C' = 'C' (PSW),(DE)	EVICE FOR ANY OPEN DRESS OF DEVICE SF CLEAR IF NO OPEN SET IF OPEN	ECIFICATION FILES FILES	
	136 136 137 137 137 137 137 137 137 137 137	7	ENTRY: EXIT: USES: PUSH PUSH LDAX	THE SPECIFIED DE  (DE) = ADI  (PSW) = 'C'  = 'C'  (PSW),(DE)  B H D	EVICE FOR ANY OPEN DRESS OF DEVICE SP CLEAR IF NO OPEN	ECIFICATION FILES FILES	
	136 136 137 137 137 137 137 137 137 137 137 138 138 138 138 138 138 138 138 138 138	7	ENTRY: EXIT: USES: PUSH PUSH LDAX STA	(DE) = ADI (PSW) = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SF CLEAR IF NO OPEN SET IF OPEN	ECIFICATION FILES FILES	
002,107 345 002,110 032 002,111 062 21 002,114 023	136 136 137 137 137 137 137 137 137 137 138 138 138 138 138 138 138 138 138 138	7	ENTRY: EXIT: USES: PUSH PUSH LUAX STA. INX	THE SPECIFIED DE  (DE) = ADI  (PSW) = 'C'  (PSW),(DE)  B H D COFA	EVICE FOR ANY OPEN DRESS OF DEVICE SF CLEAR IF NO OPEN SET IF OPEN	ECIFICATION FILES FILES	
002.107 345 002.110 032 002.111 062 21 002.114 023 002.115 032	136 136 137 137 137 137 137 137 137 138 138 138 138 138 138 138 138 138 138	7	ENTRY:  EXIT:  USES:  PUSH PUSH LDAX STA INX LDAX	THE SPECIFIED DE  (DE) = ADI  (PSW) = 'C'  (PSW),(DE)  B H D COFA D D	EVICE FOR ANY OPEN DRESS OF DEVICE SF CLEAR IF NO OPEN SET IF OPEN	ECIFICATION FILES FILES	
002.107 345 002.110 032 002.111 062 21 002.114 023 002.115 032 002.116 062 21	136 136 137 137 137 137 137 137 137 137 138 138 138 2 002 138	7	ENTRY:  EXIT:  USES:  PUSH PUSH LDAX STA INX STA LDAX STA	THE SPECIFIED DE  (DE) = ADI  (PSW) = 'C'  (PSW),(DE)  B H D COFA D COFA+1	EVICE FOR ANY OPEN DRESS OF DEVICE SF CLEAR IF NO OPEN SET IF OPEN	ECIFICATION FILES FILES	
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002,107 345 002,110 032 002,111 062 21 002,114 023 002,115 032 002,116 062 21 002,121 023 002,122 032 002,123 326 06	136 136 137 137 137 137 137 137 137 138 138 138 2 002 138 138 138 138 138 138 138 138 138 138	7	ENTRY:  EXIT:  USES:  PUSH PUSH LUAX STA INX LUAX STA INX LUAX STA INX LUAX SUI	(DE) = ADI  (PSW) = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SF CLEAR IF NO OPEN SET IF OPEN	ECIFICATION FILES FILES	
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002.107 345 002.110 032 002.111 062 21 002.114 023 002.115 032 002.116 062 21 002.121 023 002.122 032 002.123 326 06 002.125 062 21 002.130 016 00	136 136 137 137 137 137 137 137 137 138 138 2 002 138 138 2 002 138 138 139 139 139 139 139 139 139 139 139 139	7	ENTRY:  EXIT:  USES:  PUSH PUSH LUAX STA INX LUAX STA INX LUAX STA INX LUAX SUA STA MVI	(DE) = ADI (PSW) = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SF CLEAR IF NO OPEN SET IF OPEN	ECIFICATION FILES FILES	
002.107 345 002.110 032 002.111 062 21 002.114 023 002.115 032 002.116 062 21 002.121 023 002.122 032 002.123 326 06 002.125 062 21 002.130 016 00 000.000	136 136 137 137 137 137 137 138 138 138 2 002 138 138 2 002 138 139 3 002 138 139 139 139 139 139 139 139 139 139 139	7	ENTRY:  EXIT:  USES:  PUSH PUSH LDAX STA INX LDAX STA INX LDAX SUI STA MVI ERRNZ	(DE) = ADI (PSW) = 'C'	EVICE FOR ANY OPEN  DRESS OF DEVICE SF  CLEAR IF NO OPEN  SET IF OPEN  SET UP THE COMF	ECIFICATION FILES FILES ARISON STRING	
002.107 345 002.110 032 002.111 062 21 002.114 023 002.115 032 002.116 062 21 002.121 023 002.122 032 002.123 326 06 002.125 062 21 002.130 016 00	136 136 137 137 137 137 137 137 137 138 138 2 002 138 138 2 002 138 138 138 138 138 138 138 138 138 138	7 * * * * * * * * * * * * * * * * * * *	ENTRY:  EXIT:  USES:  PUSH PUSH LUAX STA INX LUAX STA INX LUAX STA INX LUAX SUA STA MVI	(DE) = ADI (PSW) = 'C'	EVICE FOR ANY OPEN DRESS OF DEVICE SF CLEAR IF NO OPEN SET IF OPEN	ECIFICATION FILES FILES ARISON STRING	
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002,211 311 1422 RET  002,212 1424 COFA DS 3 TEMPORARY COMPARISON STRING  1426 ** GETLAB - GET LABEL 1427 ** READ DISKETTE LABEL, AND STORE IN RAM. 1429 * READ DISKETTE LABEL, AND STORE IN RAM. 1430 * 1430 * 1431 * ENTRY; UNIT = DEVICE UNIT NQ. 1432 * 1433 * EXIT: (PSW) = 'C' CLEAR IF NO ERROR 1434 * (C' SET IF ERROR 1435 * (A) = ERROR CODE 1436 * 1437 * USES: ALL 1438 * 1437 * USES: ALL 1438 * 1437 * USES: ALL 1438 * 1439 * 002,215 '072 '320' 005 '1440' GETLAB LDA UNIT 000,001 1441 IF DEBUG 1442 CALL TRACE 1443 DB 'IN GETLAB',ENL 002,220 062 061 041 1445 ENDIT 002,220 062 061 041 1445 ENDIT 002,225 315 130 040 1447 CALL SYDD DRIVER ABORT 002,235 315 130 040 1447 CALL SYDD DRIVER ABORT							· · · · · · · · · · · · · · · · · · · ·
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1426   **   GETLAB   - GET LABEL     1426   **   GETLAB   - GET LABEL     1427   *       1428   *   READ DISKETTE LABEL, AND STORE IN RAM.     1429   *   READ DISKETTE LABEL, AND STORE IN RAM.     1430   *       1431   *                 1432   *       1432   *       1433   *                   1435   *               1435   *             1435   *             1435   *             1436   *       1437   *               1438   *           1439   *         1439   *         1439   *         1439   *         1430             1431                 1432                 1433                   1434                   1435                     1436                   1437   *                     1438                       1439                         1440                             1441                               1442                               1443                                       1444		··~				• • • • • • • • • • • • • • • • • • • •	
1426 ** GETLAB - GET LABEL   1427 *   1428 * READ DISKETTE LABEL, AND STORE IN RAM.   1429 *   1430 *   1430 *   1431 *   ENTRY: UNIT = DEVICE UNIT NQ.   1432 *   1433 *   EXIT: (PSW) = 'C' CLEAR IF NO ERROR.   1434 *   C' SET IF ERROR   1435 *   (A) = ERROR CODE   1435 *   (A) = ERROR CODE   1437 *   USES: ALL   1438 *   1437 *   USES: ALL   1438 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1439 *   1440 * ENDIT   1442 * CALL TRACE   1443 * DB	002,212			COEA	ne	7	TEVERSELEV SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE SEVELETIES TO THE S
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1434 *			1426 1427 1428 1429 1430 1431	** * * * *	GETLAB READ DI	- GET LABEL SKETTE LABEL, AN	D STORE IN RAM.
1435 * (A) = ERROR CODE  1436 * 1437 * USES: ALL  1438 * 1439  002.215 072 320 005 1440 GETLAB LDA UNIT 000.001 1441 IF DEBUG  1442 CALL TRACE 1443 DB 'IN GETLAB', ENL  002.220 062 061 041 1445 STA AIO.UNI SET UNIT  002.223 076 007 1446 MVI A, DC. ABT  002.225 315 130 040 1447 CALL SYDD DRIVER ABORT			1426 1427 1428 1429 1430 1431 1432	** * * * *	GETLAB READ DI ENTRY:	- GET LABEL SKETTE LABEL, AN UNIT = DEVICE U	D STORE IN RAM.
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002.223 076 007 1446 MVI A.DC.ABT 002.225 315 130 040 1447 CALL SYDD DRIVER ABORT 002.230 315 241 031 1448 CALL \$WER	002,215 000.001	• • • • • • • • • • • • • • • • • • • •	1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443	** * * * * * * * * * * * * * * * * * * *	GETLAB READ DI ENTRY: EXIT: USES: LDA IF CALL DB	- GET LABEL  SKETTE LABEL, AN  UNIT = DEVICE U  (PSW) = 'C' CI  'C' SI  (A)  ALL  UNIT  DEBUG  TRACE	D STORE IN RAM.  NIT NO.  LEAR IF NO ERROR  ET IF ERROR
002.223 078 007 1446 MUI A,DC.ABT 002.225 315 130 040 1447 CALL SYDD DRIVER ABORT 002.230 315 241 031 1448 CALL \$WER	002,215 000,001		1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1440 1441 1442 1443 1444	** * * * * * * * * * * * * * * * * * * *	GETLAB READ DI ENTRY: EXIT: USES: LDA IF CALL DB ENDIF	- GET LABEL  SKETTE LABEL, AN  UNIT = DEVICE UI  (PSW) = 'C' C'  'C' SI  (A)  ALL  UNIT  DEBUG  TANCE 'IN GETLAB', ENL	D STORE IN RAM.  NIT NQ.  EAR IF NO ERROR  ET IF ERROR  = ERROR CODE
002,230 315 241 031 1448 CALL \$WER	002,215 000,001	062 061 041	1426 1427 1428 1429 1430 1431 1432 1433 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1444	** * * * * * * * * * * * * * * * * * * *	GETLAB READ DI ENTRY: EXIT: USES: LDA IF CALL DB ENDIF STA	- GET LABEL  SKETTE LABEL, AN  UNIT = DEVICE UI  (PSW) = 'C' CI  'C' SI  (A)  ALL  UNIT  DEBUG  TRACE 'IN GETLAB', ENL  AIO, UNI	D STORE IN RAM.  NIT NO.  EAR IF NO ERROR  ET IF ERROR  = ERROR CODE
002.230 315 241 031 1448 CALL \$WER	002,215 000,001 002,220 002,223		1426 1427 1428 1429 1430 1431 1432 1433 1435 1436 1437 1436 1437 1440 1441 1442 1443 1444 1445	** * * * * * * * * * * * * * * * * * * *	GETLAB READ DI ENTRY: EXIT: USES: LDA IF CALL DB ENDIF STA MUI	- GET LABEL  SKETTE LABEL, AN  UNIT = DEVICE UI  (PSW) = 'C' CI  'C' SI  (A)  ALL  UNIT  DEBUG  TRACE 'IN GETLAB', ENL  AIO.UNI A, DC.ABT	D STORE IN RAM.  NIT NO.  EAR IF NO ERROR  ET IF ERROR  = ERROR CODE  SET UNIT
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	002,215 000,001 002,220 002,223 002,225 002,236	062 061 041 076 007 315 130 040 315 241 031	1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1440 1441 1442 1444 1445 1444 1445	**  *  *  *  *  *  *  *  *  *  *  *  *	GETLAB READ DI ENTRY: EXIT: USES: LDA IF CALL DB ENDIF STA MUI CALL CALL	- GET LABEL  SKETTE LABEL, AN  UNIT = DEVICE UM  (PSW) = 'C' CM  'C' SM  (A)  ALL  UNIT  DEBUG  TRACE 'IN GETLAB', ENL  AIO.UNI  A, DC. ABT SYDD  \$WER	D STORE IN RAM.  NIT NO.  EAR IF NO ERROR  ET IF ERROR  = ERROR CODE  SET UNIT

SECOND HDOS OVERLAY SUBROUTINES			HEATH HBASM V1.4 01/20/78 GETLAB 14:20:23 16-MAY-80	PAGE 33
002.236 021 000 027 002.241 041 011 000 002.244 076 002	1451 L	XI D,LABEL XI H,DDF,LAB VI A,DC.RER		
	1453 C	ALL SYDD	COULD NOT READ LABEL, NOT PROPERLY INITIALIZE	ED.
	1457 ** I	MM - ISSUE MOUNT MESSAG	E.	
	1460 *	MM TYPES THE MOUNTING F		
	1462 * L 1463 * 1464 * E	OLUME NNN MOUNTED ON DE ABEL: XXXX XXX NTRY LABEL SECTOR REA	ND	
		(HL) = ADDRESS C XIT NONE SES ALL	F MESSAGE VERB STRING (.PRINT FORMAT)	
002.254 072 000 027 000.001	1469 1470 IMM L 1471 I	DA LABEL+LAB.SER F DEBUG		
002.257 345	1473 D 1474 E	ALL TRACE B 'IN IMM',ENL NDIF USH H	SAVE VERB	
002,260 117 002,261 006 000 002,263 041 344 002 002,266 076 003	1477 H 1478 L	OV C,A VI B,O XI H,IMMB VI A,3		
002,270 315 157 031 002,273 315 224 005 002,276 004 000 312	1480 C 1481 C 1482 D	ALL \$UDD ALL \$MOVEL W 4,DEVNAME,IMMC	UNPACK VOLUME NUMBER SET DEV NAME	
002.304 041 335 002 002.307 377 003 002.311 341 002.312 377 003	1484 D 1485 P	XI H,IMMA B SYSCALL,.PRINT OF H B SYSCALL,.PRINT	PRINT MESSAGE PRINT VERB	
002.314 041 351 002 002.317 377 003 002.321 041 021 027 002.324 315 042 005	1488 D 1489 L	XI H, IMMC	PRINT THE REST OF IT	
002.327 315 265 005 002.332 303 034 005	1491 C 1492 J 1493	ALL \$TYPCC MP \$CRLF	DELETE TRAILING BLANKS TYPE LABEL CRLF AND EXIT	•••••
002,335 126 157 154 002,344 130 130 130 002,351 104 105 126	1495 IMMB D	B 'Volume ' B 'XXX',' '+2000 B 'DEV:',NL,'Label	.ŧ/•/ /+200Q	

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SECOND HOOS OVERLAY SUBROUTINES				MND	HEATH H8ASM V1.4 01/20/78 14:20:24 16-MAY-80	PAGE 34
	1498 ** 1499 *	MND -	MOUNT SYSTEM DIS	κ.		,
	1500 *		UNTS A NEW DISK	INTO 'SY' UN	TT 'UNIT'	••••
	1501 *					
	1502 *	1) ABC	RT DRIVER			
•••••	1503 * 1504 *	2). KEF	. OULIME NUMBER E	ne hetuee		
	1505 *	0, 01,	VOLONE NONLEN 1	OK BKIVEK		
	1506 *	EXIT	'C' CLEAR IF O			• • • • • • • • • • • • • • • • • • • •
	_1507   * _1508   *		LABEL = LABEL 'C' SET IF ERR			
	1509		C OCI IT EKK	UN		
•••••	1510	• • • • • • • • • • • • • • • •		•••••	•••••	• • • • • • • • • • • • • • • • • • • •
002.365 315 215 002 000.001	1511 MND 1512	CALL	GETLAB	GET LABEL	• • • • • • • • • • • • • • • • • • • •	
000+001	1512	CALL	DEBUG TRACE			
• • • • • • • • • • • • • • • • • • • •	1514	ĎB	'IN MND', ENL		•••••	• • • • • • • • • • • • • • • • • • • •
002.370 330	1515	ENDIF.			•••••••••••	
002.370 330	1516 1517	RC		BAD ERROR		
• • • • • • • • • • • • • • • • • • • •		CALL I	EVICE MOUNT ROUT	INE	••••••	•••
	1519					
002.371 072 010 027		LDA	LABEL+LAB.VLT	(A) = VOLU	ME TYPE	•••
002.374 376 002 002.376 322 111 003	.1521 .1522	CPI JNC	LAB.NOD MND2	" Neutre hae	SNT HAVE A DIRECTORY	• • • • • • • • • • • • • • • • • • • •
003.001 072 000 027	1523	LDA	LABEL+LAB.SER	DEVICE DOE	SKI HAVE A DIRECTOR!	
003.004 157	1524	MOV	L,A			• • • • • • • • • • • • • • • • • • • •
003.005 046 000	1525 1526	MVI MVI	H,O A,DC,MOU	(HL) = SER	IAL NUMBER	• • • • • • • • • • • • • • • • • • • •
003.011 315 130 040	1527	CALL	SYDD	тіми тишом		
003.014 330	1528	ŔĊ	• • • • • • • • • • • • • • • • • • • •	BAD ERROR		••••
	1529 1530 *	······································	ENTRY IN DEVLIST			
	1531	5E 1 UF	ENIKT IN DEVEST			
	1532	LHLD	LABEL+LAB.DIS			
003.020 353	1533	XCHG				••••
003.021 052 323 005 003.024 315 124 005	1534 1535	LHLD CALL	UNTTAB \$INDS	CAUS DIDE	CTORY CECTOR ROTHERS IN UNIT TARE	
003.027 005 000	1536	DW	UNT.DIS	HOXE HINE	CTORY SECTOR FOINTER IN UNIT TABLE.	••••
003.031 353	1537	XCHG				****
003.032 052 005 027 003.035 353	1538 1539	LHLD XCHG	LABEL+LAB.GRT			
003.036 315 124 005	1540	CALL	\$INDS	SAVE GRT	SECTOR POINTER IN TABLE	• • • • • • • • • • • • • • • • • • • •
003.041 003 000	1541	D₩	UNT.GTS		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
	1542	OFF 75				
••••	1543 * 1544	stt.ll	WRITE-PROTECTED		• • • • • • • • • • • • • • • • • • • •	••••
003.043 345	1545	PUSH	Н			
003.044 001 000 000	1546	LXI	B • O		UMMY WRITE OF ZERO BYTES	**** **********************************
003.047 150 003.050 140	1547 1548	VOM VOM	L,B H,B	TO SEE IF	DISKETTE IS WRITE PROTECTED	• • • • • • • • • • • • • • • • • • • •
003.051 076 001	1549	MVI	A,DC.WRI	TRY IT		
003.053 315 130 040	1550	CALL	SYDD			••••
003.056 341	1551		H			
003.057 365	1552 1553	PUSH	PSW		FLAG	

SUBROUTINES	••••••						HEATH HBASM V1.4 01/20/78 PAGE 35 MND 14:20:25 16-MAY-80
<u></u>							
003.060	315 103	3 005			CALL	\$INDLB	
003.063	000000	)	1555		DW	UNT.FLG	
003.065	107		1556			₿∮Å	***************************************
003.066	361		1557		POP	PSW	RESTORE CARRY
003.067			1558		MOV	A,B	A = FLAG
003.070	332 100	0.003			JC	MND.5	WAS WRITE PROTECTED
007 077	7		1560				
003.073	366 004		1561		ORI	DT.CW	SET CAPABLE OF WRITE
003.075	303 102	2 003	1562		JMF	MND+6	
	<u> </u>		1563				
003.100	346 373	3		MND.5	ANI	377Q-DT.CW	SET INCAPABLE OF WRITE
			.1565				
003.102	315 160	005	1566	MND+6	CALL	\$INDSB	UPDATE FLAG BYTE
		)	1567		DW	UNT.FLG	
003.107			1568		ORA	A	CLEAR /C/
	311		1569		RET		AND RETURN
			1570	*********			
			. 1.57.1 .	*	DEVICE	DOES NOT HAVE	A DIRECTORY,
		_	1572				
003.111		5		MND2	MVI	A,EC,DNI	DISK NOT INITIALIZED
003.113			1574		STC		FLAG ERROR
003,114	31.1		1575		RET		
			1570				
	• • • • • • • • • • • • • • • • • • • •		1578 1579	<i></i>	PGT PRI	FPARES THE GROU	P PEREDUATION TADE DV DEADING DOTH THE
	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1579 1580	*	PGT PRE	EPARES THE GROU D. THE RGT INTO	P RESERVATION TABLE BY READING BOTH THE MEMORY.
······································		•••••	1579 1580 1581	* *	GRTANI	P. THE RGT INTO	MEMORY.
	• • • • • • • • • • • • • • • • • • • •	•••••	1579 1580 1581 1582	* *	GRTANI	P. THE RGT INTO	MEMORY.
			1579 1580 1581 1582 1583	* * * *	GRTANI THEGRO	D. THE RGT INTO . DUPS UNRESERVED	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS SEGUE TO
		••••••	1579 1580 1581 1582 1583 1584	* * * * *	.GRT.ANI .THE.GRO EACH DI	D.THE.RGT.INTO. DUPS UNRESERVED IRECTORY ENTRY	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS
		••••••	1579 1580 1581 1582 1583 1584 1585	* * * * *	GRTANI THEGRC EACHDI FOLLOWE	D.THE.RGT.INTO. DUPS UNRESERVED IRECTORY ENTRY	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS SEGUE TO
		••••••	1579 1580 1581 1582 1583 1584 1585 1586	* * * * *	.GRT.ANI .THE.GRO EACH DI	D.THE.RGT.INTO. DUPS UNRESERVED IRECTORY ENTRY	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS
			1579 1580 1581 1582 1583 1584 1585 1586 1587	* * * * * * * * * * *	.GRT ANI THE GRO EACH II FOLLOWE BUILT.	D.THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING
			1579 1580 1581 1582 1583 1584 1585 1586 1587 1588	* * * * * * * * * * * * *	GRT.ANI .THE GRO .EACH DI .FOLLOWE .BUILT.	D.THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING
			1579 1580 1581 1582 1583 1584 1585 1586 1587	* * * * * * * * * * * * * * * *	GRT.ANI .THE GRO .EACH DI .FOLLOWE .BUILT.	D.THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING
			1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590	* * * * * * * * * * * * * * * * * * * *	GRT ANI THE GRO EACH DI FOLLOWE BUILT. WHEN THE FRE	D.THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS EE LIST.	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING
			1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591	* * * * * * * * * * * * * * * * * * * *	GRT ANI THE GRO EACH DI FOLLOWE BUILT. WHEN TH THE FRE	D. THE RGT INTO  DUPS UNRESERVED  IRECTORY ENTRY  ED THROUGH THE  HIS PROCESS IS  EE LIST.	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO
			1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592	* * * * * * * * * * * * * * * * * * * *	GRT ANI THE GRO EACH DI FOLLOWE BUILT. WHEN TH THE FRE ENTRY EXIT	D.THE RGT INTO  DUPS UNRESERVED  IRECTORY ENTRY  ED THROUGH THE  HIS PROCESS IS  EE LIST.  NONE  (HL) = SECTOR	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO
			1579 1580 1581 1582 1583 1584 1585 1586 1588 1588 1590 1591 1592 1593	* * * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DO FOLLOWE BUILT. WHEN THE THE FRE ENTRY EXIT USES	D.THE RGT INTO  DUPS UNRESERVED  IRECTORY ENTRY  ED THROUGH THE  HIS PROCESS IS  EE LIST.  NONE  (HL) = SECTOR  ALL	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES
			1579 1580 1581 1582 1588 1586 1586 1587 1588 1589 1590 1591 1592 1593 1594	* * * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DO FOLLOWE BUILT. WHEN THE THE FRE ENTRY EXIT USES	D.THE RGT INTO  DUPS UNRESERVED  IRECTORY ENTRY  ED THROUGH THE  HIS PROCESS IS  EE LIST.  NONE  (HL) = SECTOR  ALL	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO
			1579 1580 1581 1582 1583 1586 1586 1588 1588 1590 1591 1593 1593 1594 1596	* * * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DO FOLLOWE BUILT. WHEN THE THE FRE ENTRY EXIT USES	D.THE RGT INTO  DUPS UNRESERVED  IRECTORY ENTRY  ED THROUGH THE  HIS PROCESS IS  EE LIST.  NONE  (HL) = SECTOR  ALL	MEMORY.  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES
			1579 1580 1581 1582 1583 1586 1586 1588 1588 1590 1591 1593 1593 1594 1596	* * * * * * * * * * * * * * * * * * * *	GRT ANI THE GRO EACH DI FOLLOWE BUILT. WHEN TH THE FRE ENTRY EXIT USES MODIFIC	D.THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS EE LIST.  NONE (HL) = SECTOR ALL CATIONS: B. WA	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  IZMAN 3/7/89 TO ALLOW USING EITHER SY1; OR SYO:
003.115	315 241	031	1579 1580 1581 1582 1583 1586 1586 1588 1588 1590 1591 1593 1593 1594 1596	* * * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DO FOLLOWE BUILT. WHEN THE THE FRE ENTRY EXIT USES	D. THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS EE LIST.  NONE (HL) = SECTOR ALL CATIONS: B. WA	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  APDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES
	315 241	031	1579 1580 1581 1582 1583 1584 1585 1586 1586 1589 1591 1592 1593 1594 1596 1597	* * * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DO FOLLOWE BUILT. WHEN THE THE FRE ENTRY EXIT USES MODIFIC CALL IF	D. THE RGT INTO  DUPS UNRESERVED  IRECTORY ENTRY  ED THROUGH THE  HIS PROCESS IS  EE LIST.  NONE  (HL) = SECTOR  ALL  CATIONS: B. WA  \$WER  DEBUG	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  IZMAN 3/7/89 TO ALLOW USING EITHER SY1: OR SYO:
003.115	315 241	031	1579 1580 1581 1582 1588 1588 1588 1588 1589 1590 1591 1592 1598 1598 1599 1598 1598 1599 1598 1599 1599	* * * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DO FOLLOWE BUILT. WHEN THE FRE ENTRY EXIT USES MODIFIC CALL IF CALL	D. THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS EE LIST.  NONE (HL) = SECTOR ALL CATIONS: B. WA  \$WER DEBUG TRACE	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  IZMAN 3/7/89 TO ALLOW USING EITHER SY1: OR SYO:
003.115	315 241	031	1579 1580 1581 1583 1584 1586 1586 1589 1590 1591 1593 1593 1593 1598	* * * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH D: FOLLOWE BUILT. WHEN THE FRE ENTRY EXIT USES MODIFIC CALL IF CALL DB	D. THE RGT INTO  DUPS UNRESERVED  IRECTORY ENTRY  ED THROUGH THE  HIS PROCESS IS  EE LIST.  NONE  (HL) = SECTOR  ALL  CATIONS: B. WA  \$WER  DEBUG	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  IZMAN 3/7/89 TO ALLOW USING EITHER SY1; OR SYO:
003.115	315 241	031	1579 1580 1581 1583 1584 1586 1588 1588 1589 1591 1591 1592 1598 1598 1598 1598 1598 1598 1598 1598	* * * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DO FOLLOWE BUILT. WHEN THE FRE ENTRY EXIT USES MODIFIC CALL IF CALL	D. THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS EE LIST.  NONE (HL) = SECTOR ALL CATIONS: B. WA  \$WER DEBUG TRACE	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  IZMAN 3/7/89 TO ALLOW USING EITHER SY1: OR SYO:
003.115	315 241	031	1579 1580 1581 15883 15884 15886 15887 15889 1599 1599 1599 1599 1599 1600 1600 1600	* * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DO FOLLOWE BUILT. WHEN THE THE FRE ENTRY EXIT USES MODIFIC CALL IF CALL DB ENDIF	D. THE RGT INTO  DUPS UNRESERVED  IRECTORY ENTRY  HIS PROCESS IS  EE LIST.  NONE  (HL) = SECTOR  ALL  CATIONS: B. WA  *WER  DEBUG  TRACE  'IN PGT', ENL	MEMORY,  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT, THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  TZMAN 3/7/89 TO ALLOW USING EITHER SY1; OR SYO;  WRITE ENABLE PROTECTED RAM
003.115	315 241	031	1579 1580 1581 1583 1584 1586 1588 1588 1589 1591 1591 1592 1598 1598 1598 1598 1598 1598 1598 1598	* * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DO FOLLOWE BUILT. WHEN THE THE FRE ENTRY EXIT USES MODIFIC CALL IF CALL DB ENDIF	D. THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS EE LIST.  NONE (HL) = SECTOR ALL CATIONS: B. WA  \$WER DEBUG TRACE	MEMORY,  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT, THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  TZMAN 3/7/89 TO ALLOW USING EITHER SY1; OR SYO;  WRITE ENABLE PROTECTED RAM
003.115 000.001	315 241	031	1579 1581 1581 1588 1588 1588 1588 1589 1599 159	* * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DI FOLLOWE BUILT. WHEN THE FRE ENTRY EXIT USES MODIFIC CALL IF CALL DB ENDIF	D. THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS EE LIST.  NOME (ALL) = SECTOR ALL CATIONS: B. WA  *WER DEBUG TRACE 'IN PGT', ENL HE RGT INTO GRT	MEMORY,  VIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  TZMAN 3/7/89 TO ALLOW USING EITHER SY1; OR SYO;  WRITE ENABLE PROTECTED RAM
003.115 000.001	315 241	031	1579 1581 1588 1588 1588 1588 1588 1590 1591 1592 1599 1599 1599 1599 1599 1599	* * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH D: FOLLOWE BUILT. WHEN THE FRE ENTRY EXIT USES MODIFIC CALL IF CALL DB ENDIF READ TH	D. THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS EE LIST.  NOME (ALL) = SECTOR ALL CATIONS: B. WA  *WER DEBUG TRACE 'IN PGT', ENL HE RGT INTO GRT	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  TZMAN 3/7/89 TO ALLOW USING EITHER SY1: OR SYO:  WRITE ENABLE PROTECTED RAM  MEMORY
000.001	315 241	031	1579 1581 1588 1588 1588 1588 1588 1590 1591 1592 1599 1599 1599 1599 1599 1599	* * * * * * * * * * * * * * * * * * *	GRT AND THE GRO EACH DI FOLLOWE BUILT. WHEN THE FRE ENTRY EXIT USES MODIFIC CALL IF CALL DB ENDIF	D. THE RGT INTO DUPS UNRESERVED IRECTORY ENTRY ED THROUGH THE HIS PROCESS IS EE LIST.  NOME (ALL) = SECTOR ALL CATIONS: B. WA  *WER DEBUG TRACE 'IN PGT', ENL HE RGT INTO GRT	MEMORY.  YIA THE RGT ARE FLAGGED FREE (LINK TO GROUP 1)  IS THEN CHECKED, AND ITS GROUP IS  GRT. THE CHAIN IS DUPLICATED INTO THE GRT BEING  COMPLETE, ANY UNUSED GROUPS ARE CHAINED TO  ADDRESS OF LAST DIRECTORY BLOCK CONTAINING FILES  TZMAN 3/7/89 TO ALLOW USING EITHER SY1; OR SYO;  WRITE ENABLE PROTECTED RAM

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SECOND HDOS SUBROUTINES						HEATH HBASM VI PGT. 14:20:26 16-h		PAGE	36 
	001 000	1607		DW	UNT.GRT				
003,130.		1608	• • • • • • • • • • • • • •	XCHG	note	CAUC OUT ADDRESS			
003,131	042 103 004	1609 1610		XCHG	PGTG	SAVE GRT ADDRESS			
003.135	393	1611		PUSH	н	•••••		• • • • • • • • • • • • • • • • • • • •	
				LXI	H,DDF,RGT	RGT SECTOR ADDRESS			
003.141	041.012.000 315 042 004	1613		CALL	PGT10.	READ RGT INTO GRT AREA			
003,144		1614		POP	н				
003.145	330	1615		RC		ERROR			
		1616		· · · <u>· · · · · · · · ·</u>					
		1617	*	READ I	N THE GRT				
007 144	715 074 070	1618 1619	• • • • • • • • • • • • •	CALL	\$INDL				
003-148	315 234 030 003 000	1620		DW	UNT.GTS	DE - CET CECTOR			
003.153	345	1621	• • • • • • • • • • • • • • • • • • • •	PUSH	H	DE = GRT SECTOR	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
003.154	353	1622		XCHG	11	HL = GRT SECTOR			
003.155	021 000 027	1623		LXI	D,PGTA	DE = WORK SPACE			
003,160	315 042 004	1624		ÇALL	PGT10.				
003,163	341	1625		POP	H				
003.164	330	1.62.6		RC					
		1627		T)  T T T A		TABLE 1.005			
	• • • • • • • • • • • • • • • • • • • •	1628	<b>*</b>	tutiite	LIZE FOR BUILD	TABLE LUUF			• • • • • • • • • • • • • • • • • • • •
007 145	715 074 070			CALL	\$INDL				
003.170	315.234.939 005 000	1631	• • • • • • • • • • • • • • • • • • • •	∪₩ <b>ĻĻ</b>	UNT.DIS		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	052.120.041						/79.•1.1.•GC/		
003.175	315 124 005	1633		CALL	\$INDS	STORE FIRST DIR, SECT.	/79.11.GC/		
	376.001	1634		₽₩	DIS.LNK		/79.12.GC/		
		1635							
	257			XRA	<u> </u>				
003,203	062 000 027			STA	PGTA	CLEAR OLD FREE CHAIN			
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	16.38. 1639		DEAD D	IRECTORY BLOCK				
		1640	•	KEHD D	INECTORT BEOCK				
003,206	052 120 041		PGT3	LHLD	S.SCR		/79.11.GC/		
	315.234.030				\$INDL		/79,11,GC/		
003.214	376 001	1643	• • • • • • • • • • • • • • • • • • • •	D₩	DIS.LNK		/79.12.GC/		
	353	16.44.		ХСНБ		HL.=.DIRECTORY.LINK.SECTOR.NU	IBER ./79.11.GC/		
		1645				DE = SECTOR SCRATCH ADDRESS	/79.12.GC/		
<u></u>	174	1646 1647	•••••	 MOV				· · · · · · · · · · · · · · · · · · ·	
777 717	1/4	104/		MUV QRA	A,H L				
003.217 003.220									
003,220	265	1648	• • • • • • • • • • • • • • • • • • •			ALL TIONE			
		1648 1649		JZ	FGT7	ALL DONE			
003,220	265 312 354 003	1648 1649 1650				ALL DONE	/79.12.GC/		
003.220 003.221 003.224 003.227		1648 1649 1650 1651 1652		JZ LXI XRA	PGT7 B•512 A	ALL DONE	/79.12.GC/		
003,220 003,221 003,224 003,227 000,000	265 312 354 003 001 000 002 257	1648 1649 1650 1651 1652 1653	•••••••••••••••••••••••••••••••••••••••	JZ LXI XRA ERRNZ	PGT7 B,512 A DC.REA		/79.12.GC/ /79.12.GC/		
003,220 003,221 003,224 003,227 000,000 003,230	265 312 354 003 001 000 002 257 315 130 040	1648 1649 1650 1651 1652 1653 1654		JZ LXI XRA ERRNZ CALL	PGT7 B,512 A		/79.12.GC/ /79.12.GC/ /79.12.GC/		
003,220 003,221 003,224 003,227 000,000	265 312 354 003 001 000 002 257 315 130 040	1648 1649 1650 1651 1652 1653 1654		JZ LXI XRA ERRNZ	PGT7 B,512 A DC.REA		/79.12.GC/ /79.12.GC/		
003,220 003,221 003,224 003,227 000,000 003,230	265 312 354 003 001 000 002 257 315 130 040	1648 1649 1650 1651 1652 1653 1654 1655		JZ LXI XRA ERRNZ CALL RC	PGT7 B,512 A DC.REA SYDD		/79.12.GC/ /79.12.GC/ /79.12.GC/		
003,220 003,221 003,224 003,227 000,000 003,230	265 312 354 003 001 000 002 257 315 130 040	1648 1649 1650 1651 1652 1653 1654 1655 1656	*	JZ LXI XRA ERRNZ CALL RC	PGT7 B,512 A DC.REA SYDD		/79.12.GC/ /79.12.GC/ /79.12.GC/		
003,220 003,221 003,227 000,000 003,230 003,233	265 312 354 003 001 000 002 257 315 130 040 330	1648 1649 1650 1651 1652 1653 1654 1656 1657 1658	*	JZ LXI XRA ERRNZ CALL RC SAVE B	FGT7  B,512 A DC.REA SYDD LOCK INFO IN C		/79.12.6C/ /79.12.6C/ /79.12.6C/ /79.12.6C/		
003,220 003,221 003,227 000,000 003,230 003,233	265 312 354 003 001 000 002 257 315 130 040 330	1648 1649 1650 1651 1652 1653 1654 1656 1657 1658 1659	*	LXI XRA ERRNZ CALL RC SAVE B	FGT7  B,512 A DC.REA SYDD  LOCK INFO IN C		/79.12.6C/ /79.12.6C/ /79.12.6C/ /79.12.6C/		
003.220 003.221 003.227 000.000 003.230 003.233	265 312 354 003 001 000 002 257 315 130 040 330	1648 1649 1650 1651 1652 1653 1654 1656 1657 1658 1659	*	JZ LXI XRA ERRNZ CALL RC SAVE B	FGT7  B,512 A DC.REA SYDD  LOCK INFO IN C		/79.12.6C/ /79.12.6C/ /79.12.6C/ /79.12.6C/		

SUBROUTINES			•••••			HEATH H8ASM V1.4 01/20/78 PAG PGT 14:20:27 16-MAY-80
•••••						
003.247	315 234 030	1663		CALL	\$INDL	/79.12.60/
003.252		1664		DW	DIS.SEC	/79.12.6C/
003.254	353	1665	• • • • • • • • • • • • •	XCHG		/79.12.6C/
003.255	042 077 004	1666		SHLD	PGTD	SAVE THIS BLOCK NUMBER /79.12.GC/
003.260	353	1667		XCHG		/79.12.6C/
***************************************		1668				///12:00/
		1669	···*	SCAN DI	RECTORY FOR EN	TRYS, TRANSFER THE CHAIN TO THE NEW GRT.
		1670				THE TANK WE SELL TO
003.261	176	1671	FGT4		A+M	(A) = 1ST CHARACTER OF NAME
000.000		1672		ERRNZ	DF.EMP-377Q	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
003.262	074	1673		INR	A	
	312 336 003	1674		JZ	PGT6	SPACE IS EMPTY
000.000		1675		ERRNZ	DF.CLR-376Q	
	07.4			INR	. A	
003.267		1677	• • • • • • • • • • • • •	JZ	PGT7	ALL DONE
				ML	PGT6	** DERUG ** SHOULD NOT OCCUR
003,275	372336003. 345	1679		PUSH	Н	SAVE ADDRESS OF DIRECTORY ENTRY
		1680				
003,276	315 103 005	1681		CALL	\$INDLB	
	.020.000	1682.		DW	DIR.FGN	
003.303		1683		MOV	LiA	L = FIRST GROUP NUMBER
	*******	1.684			• • •	
		1685	*	COPY CH	AIN TO GRT	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• • • • • • • • • • • • • • • • • • •	1,686				
003.304	046 027		PGT5	MVI	HyPGTA/256	
003,306	176	1688		MOV	A,M	
		1689	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •	·····
003.307		1690		PUSH	PSW	
003.310	072 104 004	1691		LDA	PGTG+1	
003.313.	.147	1692		MOV	H,A	SET UP THE HIGH ORDER BYTE OF GRT ADDR
003.314	361	1693		POP	PS₩	
	• • • • • • • • • • • • • • • • • • • •	1694				
003.315		1695		DCR	М	SEE IF FREE
003.316		1,696	. <b></b>	VOM	M+A	· · · <del>· · · · · · · · · · · · · · · · </del>
003.317	302 035 004	1697		JNZ	PGTERR	WAS NOT FREE ! DOUBLE LINKAGE & EXIT
003,322	. 247	1698		ANA	A	· ····································
	157	1699		MOV	L+A	
	.302.304.003.	1700		JNZ	PGT5	MORE TO GO
003.327	052 077 004	1701		LHLD	PGTD	······································
	042032004.	1702		SHLD	PGTB	SAVE SECTOR ADDRESS OF BLOCK
003.335	341	1703		POP	Н	(HL) = DIRECTORY SECTOR POINTER
		1704				
	072 101 004		PGT6	LDA	PGTE	DIRECTORY ENTRY LENGTH
	315101030.			CALL	\$DADA.	HL = HL + DIR. LENGTH
		1707				
003.344	1.76	1708		MOV	A+M	
003.345		1709		ANA	A	SEE IF ENTRY
	302.261.003	1710		JŅZ	PGT4	MORE ENTRYS TO GO
003.351	303 206 003			JMP	PGT3	GET NEW SECTOR
		.1712.		. <b></b>	********	
		1713	*	ALL DON	E, LINK UNUSED	GUYŚ
		1714				
003.354			PGT7	MVI	Ć,0	(C) = NEXT FREE GROUP
	052 103 004	. 1716 .		LHLD	PGTG	
	021 377 000			LXI	D,255	
003.364	031	1718		DAD	D	HL = GRT ADDRESS + 255

SUBROUTINES	OVERL	AY					HEATH H8ASM V1.4 01/20/78 PAGE 38 PGT 14:20:29 16-MAY-80
			1719				
003.365	076	001		PGT8	MVI	A,1	
003.367			1721		CMP	M	NOT FREE
003.370		375 003	.1/22 1723		. JNE MOV	PGT9 M.C	NOT FREE LINK TO NEXT FREE
003,374			1724		MOV	C,L	SAVE THIS ONES INDEX
003.375		7/5 007		PGT9	DCR	L	NOT ALL DROCECCED
003.376	161	365.003	.1726. 1727	• • • • • • • • • • • • • •	.JŅZ	PGT8 M.C	NOT ALL PROCESSED SET FREE CHAIN
			1728	<b></b>		,	
004.002			1729		LHLD	UNTTAB	
004.005		.234030 000	.1/39. 1731		.CALL	\$INDL UNT.GTS	
004.012			1.732		PUSH	D	
004.013	315	234 030			CALL	\$INDL	DE = GRT ADDRESS
004.016		.990	.1 <u>734</u> .	• • • • • • • • • • • • • • • • • • • •	.DW POP	UNT.GRT	HL = GRT SECTOR
			1736				
		000 001			LXI	B, 256	
004.024		130 040	. 1738 . 1739 .		MVI CALL	A,DC.WRI SYDD	UPDATE GRT
		000 000			LXI	H+0	(HL) = SECTOR NUMBER OF LAST BLOCK WITH FILES
004,032	****			PGTB	EQU	<b>*</b> -2	
004.034			.1.7.9.2.		.RET		
004.035		.047		**	.wui		R IN DISK FILE STRUCTURE.  DISK STRUCTURE IS CORRUPT
004.037	067		1745 1746 1747		MVI	.A.EC.DSC	
	067		1745 1746		MVI STC IF CALL	.A,EC,ISC .DEBUG. .TRACE	DISK STRUCTURE IS CORRUPT
004.037	067		1745 1746 1747 1748 1749 1750		MVI STC IF CALL DB	.A,EC,ISC .DEBUG. .TRACE	
004.037	067		1745 1746 1747 1748 1749 1750 1751	PGTERR	MUI STC IF CALL DB HLT	.A,EC,ISC .DEBUG. .TRACE	DISK STRUCTURE IS CORRUPT
004.037 000.001	341		1745 1746 1747 1748 1749 1750 1751 1752 1753		MUI STC IF CALL DB HLT ENDIF	.A,EC,ISC .DEBUG. .TRACE	DISK STRUCTURE IS CORRUPT
004.037	341		1745 1746 1747 1748 1749 1750 1751 1752 1753 1754	PGTERR	MUI STC IF CALL DB HLT	.A,EC,DSC .DEBUG TRACE .(AT.PGTERR(,E)	DISK STRUCTURE IS CORRUPT
004.037 000.001	341		1745 1746 1747 1748 1749 1750 1751 1752 1753	PGTERR	MUI STC IF CALL DB HLT ENDIF	.A,EC,DSC .DEBUG TRACE .(AT.PGTERR(,E)	DISK STRUCTURE IS CORRUPT
004.037 000.001	341		1745 1746 1747 1748 1749 1750 1751 1752 1753 1754	PGTERR	MVI STC IF CALL DB HLT ENDIF POP RET	.A,EC,DSC DEBUG TRACE .'AT.PGTERR',EN	DISK STRUCTURE IS CORRUPT
004.037 000.001	341		1745 1746 1747 1748 1748 1750 1751 1752 1753 1754 1755	PSTERR	MVI STC IF CALL DB HLT ENDIF POP RET	A,EC,DSC  DEBUG  TRACE  'AT PGTERR',E)  H	DISK STRUCTURE IS CORRUPT
004.037 000.001 004.040 004.041	341		1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755	PSTERR	MVI STC IF CALL DB HLT ENDIF POP RET	.A,EC,DSC DEBUG TRACE .'AT.PGTERR',EN	DISK STRUCTURE IS CORRUPT
004.040 004.041 004.041 004.042 000.000	341 311		1745 1746 1747 1748 1750 1751 1752 1753 1755 1755 1757 1758 1759 1760	PGTERR. PGTERR.	MVI STC IF CALL DB HLT ENDIF POP RET PGT10. LXI ERRNZ	A,EC,DSC  DEBUG TRACE 'AT FGTERR',EN  H  - GET ONE SECTIONS B,256 DC,REA	DISK STRUCTURE IS CORRUPT
004.040 004.041 004.041 004.042 000.000 004.045	341 311 001	000 001	1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1757 1758 1758 1759 1760 1761	PGTERR. PGTERR.	MVI STC IFCALL UBHLT ENDIF POP RET	A,EC,DSC  DEBUG TRACE 'AT PGTERR',EN  H  GET ONE SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTI	DISK STRUCTURE IS CORRUPT
004.040 004.041 004.041 004.042 000.000	067 341 311 001 257 315		1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1757 1758 1758 1759 1760 1761	PGTERR. PGTERR.	MVI STC IF CALL DB HLT ENDIF POP RET PGT10. LXI ERRNZ	A,EC,DSC  DEBUG TRACE 'AT FGTERR',EN  H  - GET ONE SECTIONS B,256 DC,REA	DISK STRUCTURE IS CORRUPT
004.041 004.041 004.041 004.041 004.045 004.045 004.046	067 341 311 001 257 315 311	000 001	1745 1746 1747 1748 1750 1751 1753 1753 1754 1755 1757 1758 1759 1760 1761 1762 1763	PGTERR.  PGTERR.  ** PGT10.	MVI STC LF CALL DB HLT ENDIF POP RET PGT10. LXI ERRNZ XRA CALL RET	A,EC,DSC  DEBUG TRACE 'AT PGTERR',EN  H  GET ONE SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SEC	DISK STRUCTURE IS CORRUPT  NL  TOR
004.041 004.041 004.041 004.041 004.045 004.045 004.046	067 341 311 001 257 315 311	000 001	1745 1746 1747 1748 1750 1751 1753 1753 1754 1755 1757 1758 1759 1760 1761 1762 1763	PGTERR.  PGTERR.  ** PGT10.	MVI STC LF CALL DB HLT ENDIF POP RET PGT10. LXI ERRNZ XRA CALL RET	A,EC,DSC  DEBUG TRACE 'AT PGTERR',EN  H  GET ONE SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SEC	DISK STRUCTURE IS CORRUPT  NL  TOR
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004.041 004.041 004.041 004.041 004.045 004.045 004.046	067 341 311 001 257 315 311	000 001	1745 1746 1747 1748 1750 1751 1753 1753 1754 1755 1757 1758 1759 1760 1761 1762 1763	PGTERR.  PGTERR.  ** PGT10.	MVI STC LF CALL DB HLT ENDIF POP RET PGT10. LXI ERRNZ XRA CALL RET	A,EC,DSC  DEBUG TRACE 'AT PGTERR',EN  H  GET ONE SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SECTOR SEC	DISK STRUCTURE IS CORRUPT

SUBROUTINES	OVĚRLAÝ		•••••				ATH H8ASM V1.4 0 20:30 16-MAY-80		PAGE	39
				*********	·····Abaranaria	ar i banda banda banda i indi dan iliban kaban kaban kaban banda banda banda banda banda banda banda banda ban	4 <u>4410</u> 001201200011			
		1766 1767	**	PG111.	- GET THE SECONI	D'SECTOR OF THE DIRE	ECTORY BLOCK			
004.052	345	1798.	~PGT11.	TPUSH TH	н		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
004.053	315 067 004	1769		CALL	PGT12.	DE = SECTOR SCRATCH	4			
004.056	~~052~075~004~	1770		QUAU	PGTC			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
004.061	043	1771		INX	H					
	315 042 004	``1772`		CALL	PGT10.					
004,065		1773		POP	, Н					
004.066	311	1774		'RET						***********
		1776	**	PGT12.	- GET THE POINTE	ER TO THE SECTOR SC	RATCH AREA			
	<u></u>	1777.								
004.067			PGT12.	XCHG				+11+GC/		
	052.120.041.	1779			S.SCR	and the same of the same of the same of the same of the same of the same of the same of the same of the same of	,	.11.GC/		
004.073		1780		XCHG		DE = SECTOR SCRATCH		.11.GC/		
004.074	311	1781		RET				.11.GC/		
	***************************************					***************************************				• • • • • • • • • • • • • • • • • • • •
004.075	000 000	1783	PGTC	ĎW	······	DIRECTORY LINK SECT	OR			
004.077	000 000	1784		D₩	0	CURRENT BLOCK NUMBE				
004.101	000	``i785`	PGTE	DB	· · · · · · · · · · · · · · · · · · ·	DIRECTORY ENTRY LEN				
004.102	000	1786	PGTF	DB	0	SECOND SECT. OF BLO		FLAG		
	• • • • • • • • • • • • • • • • • • • •	1787	*		• • • • • • • • • • • • • • • • • • • •	!= 0 => TRUE				• • • • • • • • • • • • • • • • • • • •
004.103	000 000	1788	PGTG	D₩	0	SAVED GRT ADDRESS				
	· · · · · · · · · · · · · · · · · · ·					OHAFF OK! HPDKESS				
								······································		••••••
			** *		CLEAR DIRECTORY SE			······································		
		1790 1791		CDS - C	CLEAR DIRECTORY SE	PACES.	THE	······································		
		1790 1791 1792		CDS - C	CLEAR DIRECTORY SF	PACES. HE UNUSED ENTRYS AT	THE	······································		
		1790 1791		CDS - C	CLEAR DIRECTORY SE	PACES. HE UNUSED ENTRYS AT	THE			
		1790 1791 1792 1793		CDS - C CDS IS END OF	CLEAR DIRECTORY SF CALLED TO FLAG TH THE DIRECTORY AS	PACES. HE UNUSED ENTRYS AT CLEAR.		ITES		
		1790 1791 1792 1793 1794	* * *	CDS - C CDS IS END OF WHEN A	CLEAR DIRECTORY SF CALLED TO FLAG TH THE DIRECTORY AS FILE IS DELETED,	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI	EMPTY, CDS LOCA			
		1790 1791 1792 1793 1794 1795		CDS - C CDS IS END OF WHEN A EMPTY S	CLEAR DIRECTORY SF CALLED TO FLAG TH THE DIRECTORY AS FILE IS DELETED,	PACES. HE UNUSED ENTRYS AT CLEAR.	EMPTY, CDS LOCA			
		1790 1791 1792 1793 1794 1795 1796 1797 1798	* * * * *	CDS - C CDS IS END OF WHEN A EMPTY S	CLEAR DIRECTORY SE CALLED TO FLAG THE THE DIRECTORY AS FILE IS DELETED, FOTS WHICH ARE AF GS THEM CLEAER.	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
		1790 1791 1792 1793 1794 1795 1796 1797	* * * * *	CDS - C CDS IS END OF WHEN A EMPTY S	CLEAR DIRECTORY SE CALLED TO FLAG THE THE DIRECTORY AS FILE IS DELETED, FOTS WHICH ARE AF GS THEM CLEAER.	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
		1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800	* * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT	CLEAR DIRECTORY SECONDLE CALLED TO FLAG THE THE DIRECTORY AS FILE IS DELETED, POTS WHICH ARE AS THEM CLEARR.  (HL) = SECTOR NU NONE	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
		1790 1791 1792 1793 1794 1795 1796 1797 1799 1800 1801	* * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA	CLEAR DIRECTORY SECTION OF THE DIRECTORY AS FILE IS DELETED, SPOTS WHICH ARE AFOS THEM CLEAER.	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
		1790 1791 1792 1793 1794 1795 1796 1797 1798 1798 1798 1800 1801 1802	* * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT	CLEAR DIRECTORY SECONDLE CALLED TO FLAG THE THE DIRECTORY AS FILE IS DELETED, POTS WHICH ARE AS THEM CLEARR.  (HL) = SECTOR NU NONE	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
		1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1800 1802 1803	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES	CLEAR DIRECTORY SECONDLE TO FLAG THE TO FLAG THE DIRECTORY AS FILE IS DELETED, SPOTS WHICH ARE AS THEM CLEAER.  (HL) = SECTOR NUMBER AND ALL	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
	001 000 002	1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1803 1804	* * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES	CLEAR DIRECTORY SECALLED TO FLAG THE DIRECTORY AS FILE IS DELETED, SPOTS WHICH ARE AS THEM CLEAER.  (HL) = SECTOR NU NONE ALL  B,512	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
004.105 000.001		1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1799 1801 1802 1803 1804 1805	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES LXI IF	CLEAR DIRECTORY SECALLED TO FLAG THE DIRECTORY AS FILE IS DELETED, SPOTS WHICH ARE AFOS THEM CLEAER.  (HL) = SECTOR NU NONE ALL  B,512 DEBUG	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
		1790 1791 1792 1793 1795 1795 1797 1798 1799 1801 1802 1803 1804 1805 1805	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES LXI IF CALL	CLEAR DIRECTORY SF CALLED TO FLAG TH THE DIRECTORY AS FILE IS DELETED, POTS WHICH ARE AF AGS THEM CLEAER.  (HL) = SECTOR NU NONE ALL  B,512 DEBUG TRACE	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
		1790 1791 1792 1793 1794 1795 1797 1798 1799 1801 1802 1803 1804 1806 1806	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES  LXI IF CALL DB	CLEAR DIRECTORY SECALLED TO FLAG THE DIRECTORY AS FILE IS DELETED, SPOTS WHICH ARE AFOS THEM CLEAER.  (HL) = SECTOR NU NONE ALL  B,512 DEBUG	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
000.001		1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES LXI IF CALL	CLEAR DIRECTORY SECONDLED TO FLAG THE DIRECTORY AS FILE IS DELETED, POTS WHICH ARE AS THEM CLEAER.  (HL) = SECTOR NU NONE ALL  B,512  DEBUG TRACE 'IN CDS',ENL	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	O EMPTY. CDS LOCA N. THE DIRECTORY,	••••••		
000,001	315 067 004	1790 1791 1792 1793 1794 1795 1797 1798 1799 1801 1802 1803 1804 1806 1806	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES  LXI IF CALL DB	CLEAR DIRECTORY SF CALLED TO FLAG TH THE DIRECTORY AS FILE IS DELETED, POTS WHICH ARE AF AGS THEM CLEAER.  (HL) = SECTOR NU NONE ALL  B,512 DEBUG TRACE	PACES. HE UNUSED ENTRYS AT CLEAR. ITS ENTRY IS FLAGEI TER THE LAST FILE I	DEMPTY, CDS LOCA IN THE DIRECTORY, FORY BLOCK WITH F	••••••		
000.001	315 067 004	1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1801 1802 1803 1805 1806 1807 1806 1809 1809	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES LXI IF CALL DB ENDIF CALL PUSH	CLEAR DIRECTORY SF CALLED TO FLAG TH THE DIRECTORY AS FILE IS DELETED, POTS WHICH ARE AF AGS THEM CLEAER.  (HL) = SECTOR NU NONE ALL  B,512 DEBUG TRACE 'IN CDS',ENL  PGT12, D	PACES.  HE UNUSED ENTRYS AT CLEAR.  ITS ENTRY IS FLAGEIFTER THE LAST FILE I	DEMPTY, CDS LOCA IN THE DIRECTORY, FORY BLOCK WITH F	••••••		
000.001 004.110 004.113 004.114	315 067 004 325 257	1790 1791 1792 1793 1795 1795 1797 1798 1799 1801 1802 1803 1804 1805 1806 1807 1808 1808	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES  LXI IF CALL DB ENDIF CALL	CLEAR DIRECTORY SECONDLED TO FLAG THE DIRECTORY AS FILE IS DELETED, SPOTS WHICH ARE AFROS THEM CLEAER.  (HL) = SECTOR NUMBER OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECONDLE OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SE	PACES.  HE UNUSED ENTRYS AT CLEAR.  ITS ENTRY IS FLAGEIFIER THE LAST FILE J	DEMPTY, CDS LOCA IN THE DIRECTORY, FORY BLOCK WITH F	••••••		
000.001 004.110 004.113 004.114 000.000	315 067 004 325 257	1790 1791 1792 1793 1794 1795 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1806 1809 1811 1811	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES  LXI IF CALL DB ENDIF CALL PUSH XRA ERRNZ	CLEAR DIRECTORY SECONDLE TO FLAG THE DIRECTORY AS FILE IS DELETED, POTS WHICH ARE AS THEM CLEARR.  (HL) = SECTOR NUNONE ALL  B,512  DEBUG TRACE 'IN CDS',ENL  PGT12, D A DC.REA	PACES.  HE UNUSED ENTRYS AT CLEAR.  ITS ENTRY IS FLAGEIFTER THE LAST FILE JUBBER OF LAST DIRECT  DE = SECTOR SCRATCH SAVE #SECSCR	EMPTY, CDS LOCA IN THE DIRECTORY, FORY BLOCK WITH F	••••••		
000.001 004.110 004.113 004.114 000.000	315 067 004 325 257 315 130 040	1790 1791 1792 1793 1795 1795 1797 1798 1799 1801 1802 1803 1804 1805 1806 1807 1808 1808	* * * * * * * * * * * * * * * * * * * *	CDS - C CDS IS END OF WHEN A EMPTY S AND FLA ENTRY EXIT USES  LXI IF CALL DB ENDIF CALL PUSH XRA	CLEAR DIRECTORY SF CALLED TO FLAG TH THE DIRECTORY AS FILE IS DELETED, POTS WHICH ARE AF AGS THEM CLEAER.  (HL) = SECTOR NU NONE ALL  B,512 DEBUG TRACE 'IN CDS',ENL  PGT12, D A	PACES.  HE UNUSED ENTRYS AT CLEAR.  ITS ENTRY IS FLAGEIFTER THE LAST FILE I	EMPTY, CDS LOCA IN THE DIRECTORY, FORY BLOCK WITH F	••••••		

SECOND HDOS SUBROUTINES		AY.						CDS	HEATH HBASM V1.4 01/20/7 14:20:30 16-MAY-80	8 PAGE 40
004.121	321	·····		i8i5		POP	D		• • • • • • • • • • • • • • • • • • • •	
004,122				1816		MOV	H,D			
004.123				1817		MOV	L,E	(DE) = (HL)	= #SECSCR	
				1818						
				1819	*	FIND LA	AST FILE NAME	IN THIS BLOCK		
	, <u></u> . , .			1820	<u></u>					
004.124					CDS1	MOV	A+M			
	247.			1822		ANA	<u>A</u>		,	
004.126				1823		JZ	CDS3	END OF BLOCK		
004.131		136		1824		.J <u>M</u>	CDS2	EMPTY OR CLE	.an	
004.134				1825		MOV	D+H	ADEL - ADDE	OC OF THAT FILE MANE	
004,135.	135			1826		MOV	E,L	(he) = Annke	SS OF THAT FILE NAME	
				1827					EV ENTEN LENGTH	
004.136 004.141	315.	260.	<u> </u>	1828	ÇD\$2	CALL	CDS6.	⊌…≞trk₽cin	RY ENTRY LENGTH	
004.141	315	101	030	1857		CALL		TOV NEVT ONE	•	
004.144		A##.		1830		JMP	CDS1	TRY NEXT ONE	<b>`</b>	
				1831	•	ALI ==	OTY CONTE COLL	TOAL TANT SMISH	NAME TO BE FLAGGED CLEAR	
				1833 1833	*	.HLVFI		owiko"(u4)":Pub.("	MAIL TO BE TENOORD OFFICE	
004 147	757				CDS3	XCHG		(UL) = ATITICE	SS OF LAST FILE ENTRY	
004,147.	<del>.</del>	• • • • • •		1.93.4. 1835		.^409			.99.90+N9)(.4 <del>04</del> +N(N(	
004 150	174			1836	CDS4	, MOV	AyM	(A) = ENTRY	FIRST RYTE	
004+150 004+151				1837	9897	ANA			1.7117.1	
		174				JZ	CDS5	END OF BLOCK	•	
004,152 004,155		.A/#.	мум	1839 1839		 MOV	B•A	SAVE ENTRY F		
		1/7				JP		IS NOT EMPTY		
004.156	394.	. XQQ .	V.V.**	1841	• • • • • • • • • • • • • • • • • • • •	 MVI	M,DF,CLR	IS CLEAR NOW		
004.163					CDS4.5	CALL	CDS6.		PRY ENTRY LENGTH	
004.166					949749	CALL	\$DADA.		/!\! <del>+!\!!\!+#</del> 09!!\	
						JMP				
		. XVX .		1845		4(0				
					*	BLOCK	IS CORRECTED.	WRITE, BACKTQ.DI	ISK	
	· · · · · · ·			1847			**	ACATA LECENTIA LE		••••
004+174	305			1848	CDS5	PUSH	B	SAVE (B) FLA	AG	
004.175	001	000				LXI	B,512			
	052	120	041	1850		LHLD	S.SCR		/79.11.GC	Z
004.203	353			1851		XCHG		DE = SCRATCH	POINTER /79.11.GC	· /
004.204		374				LXI	H.DIS.SEC			
004.207				1853		DAD	D	HL = POINTER	TO DIS.SEC /79.11.GC	
004.210	315	.211	030	1854		CALL	\$HLIHL	HL = SECTOR	/79.11.GC	V
004.213				1855		MVI	A,DC.WRI			
004+215		130.				CALL	SYDD	WRITE BLOCK.	BACK	
004.220	301			1857		POP	В			
	330			1858		RC		CANT WRITE I	IT, FORGET IT	
				1859						
	.,			1860		IF THE	LAST ENTRY IN	THIS BLOCK IS N	NOT CLEAR, MUST CONTINUE	
				1861	•	CORREC	TIONS TO NEXT	RFOCK		
				1862						
004.222		3/6		1863		MVI	A, DF, CLR			
004,224				1864		. CMP		ALL CLEAR		
004.225	310			1865		KE		ALL ULLAR		
				1866						
004.226				1867		LHLD	S.SCR		/79.11.GC	·/
004.231				1868		CALL	\$INDL		/79.11.60 /79.11.60	<u> </u>
004.234				1869		DW	DIS.LNK	10 - 1 ***** **		
004.236	353			1870		XCHG		Hr = rikk 2F	CTOR; DE = SCR. /79.11.GC	•/

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SUBROUTINES	DVERLAY				•••••	HEATH H8ASM V1.4 01/20/78 CDS 14:20:33 16-MAY-80	PAGE 41
		1871				······································	•••••
004.237	174	1872		MOÚ	A,H		
004.240		1873		ÖRA			• • • • • • • • • • • • • • • • • • • •
004.241		1874		ŔZ	<b>L</b>	NO MORE TO CORRECT	
				!\**		NO HORE TO CONNECT	• • • • • • • • • • • • • • • • • • • •
004.242	001 000 002	1876		LXI	B.512		
004.245	257	1877	• • • • • • • • • • • •	XRA	B,512	••••••	•••••
000.000		1878		ERRNZ	DC.REA		
	315 130 040			CALL	SYDD	READ NEXT BLOCK	
004.251	330	1880		RC	SIDE	ERROR	
		1881	• • • • • • • • • •			ERROR	
004.252	052 120 041	1882		LHLD	S.SCR	III - CCDATCU DOTNITED (70 44 00)	
	303 150 004	1883	•••••	JMP	CDS4	HL = SCRATCH POINTER /79,11,6C/ TRY THIS ONE	
						••••••••••••••••••••••••••••••••	
		1885	**	CDS6.	- GET DIRECTO	ORY ENTRY LENGTH	•••••
004,260	7.45	1886 1887	CDC/	DUCU	11		
004.261			CDS6.	PUSH	H.	/79.11.GC/	• • • • • • • • • • • • • • • • • • • •
				LHLD	SISCR	/79.11.GC/	
	315 103 005	. 1889		CALL	\$INDLB	/79.11.GC/	
004.287	373 001	1890		DW	DISTENL	/79.11.GC/	
004.271	341	1891		POP	H	/79.11.6C/ /79.11.6C/	
004.272	311	1892		RET		/79.11.GC/	
004.272	311	1892		KEI.		/79.11.GC/	
004.272	311	1894	**	WDO	- WAIT FOR DRI		
004.272	311	1894 1895	**	WDO		IVE TO OPEN	
004.272	311	1894 1895		WDO WAIT UN	TIL USER OPENS	IVE TO OPEN SELECTED DRIVE.	
004.272	311	1894 1895 1896	* * *	WDO WAIT UN DRIVE I	TIL USER OPENS S ASSUMED TO BE	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS	
004.272	311	1894 1895 1896 1897 1898	* * *	WDO WAIT UN DRIVE I	TIL USER OPENS S ASSUMED TO BE	IVE TO OPEN SELECTED DRIVE.	
004.272	311	1894 1895 1896 1897 1898	* * *	WDO WAIT UN DRIVE I	TIL USER OPENS S ASSUMED TO BE	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS	
004.272	311	1894 1895 1896 1897 1898 1899 1900	* * * *	WIO WAIT UN BRIVE I BETWEEN	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A	IVE TO OPEN  SELECTED DRIVE, E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL, SEC.	
004.272	311	1894 1895 1896 1897 1898 1899 1900	* * * * * *	WDO WAIT UN DRIVE I	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS	
004.272	311	1894 1895 1896 1897 1898 1899 1900 1901 1902	* * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY:	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL, SEC. T NUMBER	
004.272	311	1894 1895 1896 1897 1898 1899 1900 1901 1902	* * * * * *	WIO WAIT UN BRIVE I BETWEEN	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z'	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC. T NUMBER  CLEAR IF AN ABORT IS PENDING	
004.272	311	1894 1895 1896 1897 1898 1899 1900 1901 1902 1903	* * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY:	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z'	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL, SEC. T NUMBER	
004.272	311	1894 1895 1896 1898 1898 1900 1901 1902 1903 1904 1905	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY:	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z'	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC. T NUMBER  CLEAR IF AN ABORT IS PENDING	
004.272	311	1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY:	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z'	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC. T NUMBER  CLEAR IF AN ABORT IS PENDING	
004.272	311	1894 1895 1896 1897 1898 1898 1990 1901 1902 1903 1904 1905 1906	* * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY:	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z'	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC. T NUMBER  CLEAR IF AN ABORT IS PENDING	
004.272		1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES:	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC. T NUMBER  CLEAR IF AN ABORT IS PENDING	
004.272	072 320 005	1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES:	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC. T NUMBER  CLEAR IF AN ABORT IS PENDING	
004.272 004.273 004.273		1894 1895 1896 1898 1899 1900 1901 1902 1903 1904 1905 1906 1909 1909	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES: LDA STA	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT AIO.UNI	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC. T NUMBER  CLEAR IF AN ABORT IS PENDING	
004.272	072 320 005	1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES: LDA STA IF	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT AIO.UNI DEBUG	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC. T NUMBER  CLEAR IF AN ABORT IS PENDING	
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004.272 004.273 004.273	072 320 005	1894 1895 1896 1897 1898 1899 1900 1901 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES: LDA STA IF CALL DB	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT AIO.UNI DEBUG	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC. T NUMBER  CLEAR IF AN ABORT IS PENDING	
004.272 004.273 004.276 000.001	072 320 005 062 061 041	1894 1895 1896 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1910 1911 1911 1911 1913	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES: LDA STA IF CALL DB ENDIF	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT AIO.UNI DEBUG TRACE 'IN WDO', ENL	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC.  T NUMBER  CLEAR IF AN ABORT IS PENDING SET IF NO ABORT	
004.272 004.273 004.276 000.001	072 320 005 062 061 041 315 205 040	1894 1895 1896 1899 1899 1900 1901 1902 1903 1904 1905 1906 1908 1909 1910 1911 1912 1913 1915	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES: LDA STA IF CALL DB	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT AIO.UNI DEBUG TRACE	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC.  T NUMBER  CLEAR IF AN ABORT IS PENDING SET IF NO ABORT	
004.272 004.273 004.276 000.001	072 320 005 062 061 041	1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1911 1912 1913 1914 1915 1916	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES: LDA STA IF CALL DB ENDIF CALL	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT AIO.UNI DEBUG TRACE 'IN WDO', ENL  D.SDF	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC.  T NUMBER  CLEAR IF AN ABORT IS PENDING SET IF NO ABORT	
004.272 004.273 004.276 000.001	072 320 005 062 061 041 315 205 040	1894 1895 1896 1899 1899 1900 1901 1902 1903 1904 1905 1906 1908 1909 1910 1911 1912 1913 1915	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES: LDA STA IF CALL DB ENDIF	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT AIO.UNI DEBUG TRACE 'IN WDO', ENL	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL. SEC.  T NUMBER  CLEAR IF AN ABORT IS PENDING SET IF NO ABORT	
004.272 004.273 004.276 000.001	072 320 005 062 061 041 315 205 040	1894 1895 1896 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1910 1911 1913 1914 1915 1916 1917	* * * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES: LDA STA IF CALL DB ENDIF CALL CALL	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT AIO.UNI DEBUG TRACE 'IN WDO', ENL  D.SDF	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL, SEC.  T NUMBER  CLEAR IF AN ABORT IS PENDING SET IF NO ABORT  SET UP DEVICE PARAMETERS SEEK TRACK ZERO	
004.273 004.273 004.276 000.001	072 320 005 062 061 041 315 205 040	1894 1895 1896 1898 1899 1900 1901 1902 1903 1904 1905 1906 1909 1910 1911 1912 1913 1915 1916 1917	* * * * * * * * * * * * * * * * * * *	WDO WAIT UN DRIVE I BETWEEN ENTRY: EXIT: USES: LDA STA IF CALL DB ENDIF CALL CALL	TIL USER OPENS S ASSUMED TO BE NOLE DETECT, A  UNIT = UNIT  (PSW) = 'Z' = 'Z' ALL  UNIT AIO.UNI DEBUG TRACE 'IN WDO', ENL  D.SDP D.STZ	IVE TO OPEN  SELECTED DRIVE. E OPEN WHEN THERE ARE NO MORE TRANSITIONS AND NO HOLE DETECT IN 200 MIL, SEC.  T NUMBER  CLEAR IF AN ABORT IS PENDING SET IF NO ABORT  SET UP DEVICE PARAMETERS SEEK TRACK ZERO	

004.312 052 033 040 1921 LHLD .TICCNT 004.315 021 144 000 1922 LXI D.100 004.320 031 1923 DAD D	
	• • • • • • • • • • • • • • • • • • • •
ለሰ <i>ል</i> . ፕշሲ ለሚ1 1927 ክልክ ክ	
	• • • • • • • • • • • • • • • • • • • •
004.325 135 1924 MOU E-I (DE) (CURRENT TIC COUNT ± 100 )	
004.326 315 234 001 1927 WD03 CALL CAB. CHECK ABORT	
004.331 300 1928 RNZ AN ABORT IS PENDING	
004.332 346 001 1929 ANI DF.HD	
004.334 041 372 004 1930 LXI H,WDDA 004.337 276 1931 CMF M	
004.740 147: 1972 MOU M.A	•
004.341 312 345 004 1933 JZ WD04 NO TRANSITION	• • • • • • • • • • • • • • • • • • • •
004.344 003 1934 INX B	
004.345 052 033 040 1935 WD04 LHLD .TICCNT	
004.350 031 1936 DAD D	
004.351 174 1937 MOV A,H 004.352 247 1938 ANA A	
004.353 372 326 004 1939 JM WD03 WAIT AT LEAST 200 MIL SEC.	
004.356 170 1940 MDV A,B	
004.357 302 307 004 1941	***************************************
004.362 171 1942 MOV A,C	
004.363 376 002 1943 CPI 2	
004.365 322 307 004 1944	
004.371 311 1946 RET ( ONE HOLE IS OK IN CASE WE STOPPED OVER ONE!)	
1947	****************
004,372 000 1948 WDDA DB 0	
***************************************	• • • • • • • • • • • • • • • • • • • •

SECOND HDOS O COMMON DECKS			•••••			HEATH H8ASM V1.4 01/20/78 F 14:20:35 16-MAY-80	AGE 4	3
004.373		1952	••••••	XTEXT	BITS			
•••••			••••••	• • • • • • • • • • • • • • • • • • • •				
		1954X		BITS	- BIT	SET		
***************************************		1955X 1956X	k	BITS SE	TS THE	PECIFIED BIT IN THE ACCUMULATOR.		
***************************************		1957X 1958X	<b>k</b>	ENTRY:	. <b></b>	= ORIGINAL A		
		1959X 1960X	<b>k</b>			= NUMBER OF BIT TO SET ( 7=HIGH,,O=LDW )		
		1961X .1962X	<b>k</b>	EXIT:	Α	= ORIGINAL A WITH BIT(B) SET		
•••••		1963X 1964X		USES:	PSW			
004.373	305	1965X 1966X 1967X	BITS	PUSH				
004.374 004.375		1968X 1969X		PUSH MVI	PSW A,1000	0000		
004.377 005.000	004	1970X 1971X	RTTS1	INR	B	······		
005.001		1972X		DCR JNZ	B BITS1			
005.005		1974X 1975X		MOV	C,A		······	
005.006 005.007	361	1976X 1977X		POF ORA	PS₩ C			· • • • • • • • • • • • • • • • • • • •
005,010	301	.1978X 1979X		POP	BC			
005.011 005.012	31,1	1980X 1981		RET XTEXT	CDEHL			
		• • • • • • • • • • • • • • • • • • • •						
						E /DEX TO /W X		••••••
		1984X 1985X	*			E (DE) TO (HL)  (DE) TO (HL) FOR EQUALITY.		
	***************************************	1986X 1987X	*	ENTRY	NONE			
		1988X 1989X	*	EXIT USES		IF (DE) = (HL)		
		1990X 1991X						
030.216 005.012		1992X 1993	\$CDEHL	EQU XTEXT	302166 CFD	IN H17 ROM		
••••								
						······································		
						······································		
	•••••••••							
	•	• • • • • • • • • • •						

COMMON DECKS	• • • • • • • • • • • • • • • • • • • •		HEATH H8ASM V1.4 01/20/78 PAGE 44 \$CFD 14:20:39 16-MAY-80
•••••••••••••••••	1995X **	\$CFD -	- CHECK FILE DELIMITER.
***************************************	1996X *		
	1997X *	\$CFD C	CHECKS AN ASCII CHARACTER TO SEE IF IT IS A LEGAL FILE
	1998X *	NAME I	DELIMITER. LEGAL DELIMITERS ARE
	1999X *		
***************************************	2000X_*		' <blank></blank>
	2001X *		
***************************************	2002X *	ENTRY.	
	2003X *	EXIT	'C' CLEAR IF OK
	2004X *		CC SET IF ERROR
	2005X *		(A) = ERROR CODE
	2006X *	USES	AyF
	2007X		
	2008X		
005.012 247	2009X \$CFD	ANA	Α
005.013310	2010X	ŖZ	IS 00
005.014 376 054	2011X	CPI	<b>***</b>
005,016 310	2012X	RE	IS ,
005.017 376 075	2013X	CPI	/=/
005.021 310	201.4X	RE	IS.=
005,022 376 057	2015X	CPI	'''
005,024 310	2016X	ŖE	IS /
005.025 376 040	2017X	CPI	
005,027 310	2018X	RE	
005.030 076 007	2019X	MVI	A,EC.IFN ILLEGAL FILE NAME
0.05.032 067	2020X	\$T.C	
005.033 311	2021X	RET	
005.034	2022	XTEXT.	CHL
		XTEXT.	СНГ
		XTEXT.	СНЦ.
		XTEXT	СН
	2022		
	2022 2024X **		- COMPLEMENT (HL).
	2024X ** 2024X *	\$CHL -	- COMPLEMENT (HL).
	2024X ** 2025X * 2026X *	\$CHL -	
	2024X ** 2025X * 2026X * 2027X *	\$CHL - (HL) =	- COMPLEMENT (HL). = -(HL) TWO'S COMPLEMENT
	2024X ** 2025X * 2025X * 2026X * 2027X *	\$CHL - (HL) = ENTRY	- COMPLEMENT (HL). = -(HL) TWO'S COMPLEMENT ' NONE
	2024X ** 2024X ** 2025X * 2026X * 2027X * 2028X * 2029X *	\$CHL - (HL) = ENTRY EXIT	- COMPLEMENT (HL). = -(HL) TWO'S COMPLEMENT  NONE NONE
	2024X ** 2024X ** 2025X * 2026X * 2027X * 2028X * 2029X * 2030X *	\$CHL - (HL) = ENTRY	- COMPLEMENT (HL). = -(HL) TWO'S COMPLEMENT 'NONE
	2024X ** 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X	\$CHL - (HL) = ENTRY EXIT	- COMPLEMENT (HL). = -(HL) TWO'S COMPLEMENT  NONE NONE
005,034	2024X ** 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X 2032X	\$CHL - (HL) = ENTRY EXIT USES	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A+F+H+L
005.034	2024X ** 2025X * 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X 2032X 2032X 2032X \$CHL	\$CHL - (HL) = ENTRY EXIT USES	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM
005,034	2024X ** 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X 2032X	\$CHL - (HL) = ENTRY EXIT USES	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM
005.034	2024X ** 2025X * 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X 2032X 2032X 2032X \$CHL	\$CHL - (HL) = ENTRY EXIT USES	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM
030.224	2024X ** 2025X * 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X 2032X 2032X 2032X \$CHL	\$CHL - (HL) = ENTRY EXIT USES	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM
005.034	2024X ** 2025X * 2025X * 2026X * 2027X * 2029X * 2030X * 2031X 2031X 2032X 2032X 2033X \$CHL	\$CHL - (HL) = ENTRY EXIT USES EQU XTEXT	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM COMP
005.034	2024X ** 2025X * 2025X * 2027X * 2027X * 2028X * 2029X * 2030X * 2031X 2032X 2033X \$CHL 2034	\$CHL - (HL) = ENTRY EXIT USES EQU XTEXT	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM
030.224	2024X ** 2025X * 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X 2032X 2033X \$CHL 2034	\$CHL - (HL) = ENTRY EXIT USES EQU XTEXT	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM COMP  - COMPARE TWO CHARACTER STRINGS.
005.034	2024X ** 2024X ** 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X 2031X 2032X 2033X \$CHL 2034	\$CHL - (HL) = ENTRY EXIT USES EQU XTEXT	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM COMP
005.034	2024X ** 2025X * 2025X * 2026X * 2027X * 2029X * 2031X 2031X 2032X 2033X \$CHL 2034	\$CHL - (HL) = ENTRY EXIT USES  EQU XTEXT  \$COMP	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM COMP  - COMPARE TWO CHARACTER STRINGS.
005.034	2024X ** 2025X * 2025X * 2026X * 2027X * 2028X * 2031X * 2031X * 2031X * 2032X + 2032X + 2032X * 2038X * 2038X * 2038X *	\$CHL - (HL) = ENTRY EXIT USES EQU XTEXT	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A,F,H,L  30224A IN H17 ROM COMP  - COMPARE TWO CHARACTER STRINGS.  COMPARES TWO BYTE STRINGS.  (C) = COMPARE COUNT
005.034	2024X ** 2025X * 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X 2032X 2033X \$CHL 2034  2036X ** 2037X * 2038X * 2039X * 2039X * 2039X * 2040X * 2040X * 2041X *	\$CHL - (HL) = ENTRY EXIT USES  EQU XTEXT  \$COMP	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A+F+H+L  30224A IN H17 ROM COMP  - COMPARE TWO CHARACTER STRINGS.  COMPARES TWO BYTE STRINGS.  (C) = COMPARE COUNT (DE) = FWA OF STRING #1
005.034	2024X ** 2025X * 2025X * 2026X * 2027X * 2028X * 2030X * 2031X 2032X 2033X \$CHL 2034  2036X ** 2037X * 2037X * 2038X * 2039X * 2040X * 2040X * 2041X * 2042X *	\$CHL - (HL) = ENTRY EXIT. USES  EQU XTEXT  \$COMP \$COMP	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A;F;H;L  30224A IN H17 ROM COMP  - COMPARE TWO CHARACTER STRINGS.  COMPARES TWO BYTE STRINGS.  (C) = COMPARE COUNT (DE) = FWA OF STRING #1 (HL) = FWA OF STRING #2
005,034	2024X ** 2025X * 2025X * 2026X * 2027X * 2028X * 2029X * 2030X * 2031X 2032X 2033X \$CHL 2034  2036X ** 2037X * 2038X * 2039X * 2039X * 2039X * 2040X * 2040X * 2041X *	\$CHL - (HL) = ENTRY EXIT USES  EQU XTEXT  \$COMP	- COMPLEMENT (HL).  = -(HL) TWO'S COMPLEMENT  NONE NONE A+F+H+L  30224A IN H17 ROM COMP  - COMPARE TWO CHARACTER STRINGS.  COMPARES TWO BYTE STRINGS.  (C) = COMPARE COUNT (DE) = FWA OF STRING \$1

SECOND HOOS OVERLAY COMMON DECKS				\$COMP	HEATH HBASM V1.4 01/20/78 14:20:44 16-MAY-80	PAGE
•••••	2045X *		(DE) = ADDRÉSS	OF MISMATCH IN	N STRING#1	•• ••••
	2046X *		(HL) = ADDRESS	OF MISMATCH IN	N STRING #2	
	2047X *		'C' SET, HAVE N	1ATCH		
	2048X *		(C) = 0	.,,,,,,,	***************************************	
	2049X *		(HL) = (DE) +	(00)		
	2051X *	USES	`A)F,C,D,E,H,L		••••••	•• • • • • • • • • • • • • • • • • • • •
	2052X					
***************************************	2053X		••••••		•••••••••••••••••••••••••••••••••••••••	
030.060	2054X \$COMP	EQU	30060A	IN H17 ROM		
005.034	2055	XTEXT	CRLF			
		• • • • • • • • • • • • • • • • • • • •				
	2057X **	\$CRLF -	.TYPE CARRIAGE F	RETURN/ LINE FER	FTI .	
***************************************	2058X *			'm : mv: v: <del></del>	***************************************	
	2059X *	\$CRLF I	S USED TO GENERA	TE PADDED CRLF	′S•	
	2060X *	F117F14				
	2061X * 2062X *	ENTRY EXIT	NONE (A) = 0			
	2063X *	USES	A,F			
	2064X					
	2065X					
005.034 076 012	2066X \$CRLF	MVI	AINL	***************************************		
005.036 377 002	2067X	DB	SYSCALL, SCOUT			
005.040 257	2068X	XRA	A			
005,041 311	2069X 2070	RET XTEXT	DADA2			
					***************************************	
	2072Y **	<b>Φ</b> ΠΔΠΔ	- AND (O-A) TO (	u.i.s		
	2072X **	\$DADA.	- ADD (0,A) TO (	H <sub>*</sub> L)		
·	2073X *		NONE			
			NONE			
	2073X * 2074X * 2075X * 2076X *	ENTRY				
	2073X * 2074X * 2075X * 2076X * 2077X	ENTRY EXIT	NONE (HL) = (HL) + (			
	2073X * 2074X * 2075X * 2076X * 2077X 2078X	ENTRY EXIT USES	NONE (HL) = (HL) + ( A,F,H,L	0A)		
030.101	2073X * 2074X * 2075X * 2075X * 2076X * 2077X 2078X 2079X \$DADA	ENTRY EXIT USES EQU	NONE (HL) = (HL) + (A,F,H,L)			
030.101 005.042	2073X * 2074X * 2075X * 2076X * 2077X 2078X	ENTRY EXIT USES EQU	NONE (HL) = (HL) + ( A,F,H,L	0A)		
	2073X * 2074X * 2075X * 2075X * 2076X * 2077X 2078X 2079X \$DADA	ENTRY EXIT USES EQU	NONE (HL) = (HL) + (A,F,H,L)	0A)		
	2073X * 2074X * 2075X * 2075X * 2077X 2077X 2078X 2079X \$DADA.	ENTRY ÉXÍT USES EQU XTEXT	NONE (HL) = (HL) + (A,F,H,L) 30101A DTB	0A) IN H17 ROM		
	2073X * 2074X * 2074X * 2075X * 2076X * 2077X 2078X 2079X \$DADA . 2080	ENTRY ÉXÍT USES EQU XTEXT	NONE (HL) = (HL) + (A,F,H,L)	0A) IN H17 ROM		
	2073X * 2074X * 2074X * 2075X * 2076X * 2077X 2078X 2079X \$DADA. 2080	ENTRY ÉXÍT USES EQU XTEXT	NONE (HL) = (HL) + (A,F,H,L  30101A DTB	OA)  IN H17 ROM  BLANKS.		
	2073X * 2074X * 2075X * 2075X * 2077X 2078X 2079X \$DADA. 2080  2082X ** 2083X *	ENTRY ÉXÍT USES EQU XTEXT	NONE (HL) = (HL) + (A,F,H,L) 30101A DTB	OA)  IN H17 ROM  BLANKS.	A CODED LINE.	
	2073X * 2074X * 2075X * 2075X * 2077X 2078X 2079X \$DADA. 2080  2082X ** 2083X * 2084X * 2085X *	ENTRY EXIT USES EQU XTEXT  \$DTB - 1	NONE (HL) = (HL) + (A,F,H,L  30101A DTB  DELETE TRAILING LETES THE TRAIL)	OA)  IN H17 ROM  BLANKS.	A CODED LINE.	
	2073X * 2074X * 2075X * 2075X * 2077X 2078X 2079X \$DADA. 2080  2082X ** 2083X *	ENTRY EXIT USES EQU XTEXT  \$DTB - 1 \$DTB DEL	NONE  (HL) = (HL) + (A,F,H,L  30101A DTB  DELETE TRAILING LETES THE TRAILI (HL) = LINE FWA	OA)  IN H17 ROM  BLANKS.  NG BLANKS FROM		
	2073X * 2074X * 2075X * 2075X * 2077X 2078X 2079X \$DADA. 2080  2082X ** 2083X * 2084X * 2085X * 2085X *	ENTRY EXIT USES EQU XTEXT  \$DTB - 1	NONE  (HL) = (HL) + (A,F,H,L  30101A DTB  DELETE TRAILING LETES THE TRAILI (HL) = LINE FWA	OA)  IN H17 ROM  BLANKS.  NG BLANKS FROM	A CÓDÉD LINE. DING OO TERMINATOR BYTE)	
	2073X * 2074X * 2074X * 2076X * 2077X 2078X 2079X \$DADA. 2080  2082X ** 2083X * 2084X * 2085X * 2085X * 2086X * 2086X * 2088X * 2088X *	ENTRY ÉXIT USES  EQU XTEXT  \$DTB - 1 \$DTB DEL ENTRY EXIT	NONE (HL) = (HL) + (A,F,H,L)  30101A DTB  DELETE TRAILING LETES THE TRAILI (HL) = LINE FWA (A) = LENGTH OF	OA)  IN H17 ROM  BLANKS.  NG BLANKS FROM		
	2073X * 2074X * 2075X * 2075X * 2077X 2078X 2079X \$DADA 2080  2082X ** 2083X * 2084X * 2085X * 2085X * 2086X * 2087X * 2088X *	ENTRY ÉXIT USES  EQU XTEXT  \$DTB - 1 \$DTB DEL ENTRY EXIT	NONE (HL) = (HL) + (A,F,H,L)  30101A DTB  DELETE TRAILING LETES THE TRAILI (HL) = LINE FWA (A) = LENGTH OF	OA)  IN H17 ROM  BLANKS.  NG BLANKS FROM		

005.045 005.046 005.057 005.051 005.054 005.054	135 033 176 043 247 302 046 005	2092X 2093X 2094X 2095X 2095X 2096X 2097X 2098X 2099X 2100X 2101X *	MOV DCX MOV INX ANA JNZ DCX	D,H E,L D A,M H A \$DTR1 H	(DE) = FWA (DE) = FWA-1 FIND END OF LIN				
005.044 005.045 005.046 005.050 005.051 005.054 005.054	135 033 176 043 247 302 046 005 053	2093X 2094X 2095X \$DTB1 2096X 2097X 2098X 2099X 2100X 2101X *	MOV DCX MOV INX ANA JNZ DCX	E,L D A,M H A \$DTRI	(DE) = FWA-1				
005.045 005.046 005.057 005.050 005.051 005.054 005.055 005.056 005.061	033 176 043 247 302 046 005 053	2094X 2095X \$DTB1 2096X 2097X 2098X 2099X 2100X 2101X *	MOV INX ANA JNZ DCX	A,M H A \$DTB1	(DE) = FWA-1				
005.046 005.047 005.050 005.051 005.054 005.055 005.056 005.061	176 043 247 302 046 005 053	2095X \$DTB1 2096X 2097X 2098X 2099X 2100X 2101X *	MOV INX ANA JNZ DCX	A,M H A \$DTB1	• • • • • • • • • • • • • • • • • • • •				
005.047 005.050 005.051 005.054 005.055 005.056 005.061	043 247 302 046 005 053	2096X 2097X 2098X 2099X 2100X 2101X *	INX ANA JNZ DCX	H A \$DTB1	FIND END OF LIN				
005.050 005.051 005.054 005.055 005.056 005.061	247 302 046 005 053	2097X 2098X 2099X 2100X 2101X *	ANA JNZ DCX	A \$DTB1	FIND END OF LIN	-			
005.054 005.055 005.056 005.061 005.064	053	2098X 2099X 2100X 2101X * 2102X	JNZ DCX	\$DTB1	FIND END OF LIN				
005.054 005.055 005.056 005.061 005.064	053	2099X 2100X 2101X * 2102X	DCX			<u>.                                    </u>			
005.055 005.056 005.061 005.064	053	2100X 2101X * 2102X		.m	/// \ _ APPECO	OF TENTHATING TENS BUTE			
005.056 005.061 005.064		2101X * 2102X	COT CND		(HL) = ADDKESS	OF TERMINATING ZERO BYTE			
005.056 005.061 005.064		2102X		OF LINE, DELETE	TRAILING BLANKS				
005.056 005.061 005.064			9915117	······································		•••••		• • • • • • • • •	
005.056 005.061 005.064		2103X \$DTB2	DCX	н	BACKUP ONE CHAR	ACTER			
005.061 005.064		2104X		\$CDEHL		HOTEK		• • • • • • • • • •	
005.064	312 072 005	2105X		\$DTB3	GONE PAST FRONT	OF LINE, MUST BE ALL BLANKS			
		2106X		.т.т.т.т		.or .cincy .noopc. ncc. bennes.	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	• • •
		2107X		, ,					
	312 055 005			\$DTB2	GOT BLANK	***************************************		• • • • • • • • • • • • • • • • • • • •	• • •
		2109X							
		2110X *	HAVE TRI	MED LINE. COMPU	TE LENGTH	***************************************		• • • • • • • • • •	• • • •
		2111X							
005.072	043	2112X \$DTB3	INX	Н		***************************************		• • • • • • • • • • • • • • • • • • • •	• • • •
005.073		2113X	MVI	M+0	TERMINATE LINE				
005.075	175	2114X		A,L		***************************************			
005.40.76		2115X		Ę	(A) = LENGTH +1	(FOR OO BYTE)			
005.077		2116X	XCHG			***************************************			• • • •
0.05.1.00	.043	. 2117X	INX	<u>H</u>	(HL) = LINE FWA				
005.101		2118X		D	RESTORE (DE)				•••
005.102	31.1	2119X	RET						
005.103		2120	XTEXT	HLIHL					
030.211 005.103		2122X ** 2123X * 2124X * 2125X * 2125X * 2126X * 2127X * 2127X * 2129X * 2130X \$HLIHL 2131	(HL) = ( ENTRY EXIT USES	NONE	CT THROUGH HL.				
		2133X ** 2134X * 2135X * 2136X * 2137X * 2138X * 2138X * 2140X * 2141X *	\$INDL LO THIS ACT (DE) = (	S AS AN INDEXED (HL) + DSPLACE)	TWO BYTES AT (HI FULL WORD LOAD. MENT ) ACMENT (FULL WOR				

SECOND HOOS OVERLAY COMMON DECKS	••••			\$INDL	HEATH HBASM V1.4 01/20/78 14:20:54 16-MAY-BO	PAGE 47
	2142X *		(HL) = TABLE AT	DRESS		• • • • • • • • • • • • • • • • • • • •
	2143X *	EXIT	TO (RET+2)	·		
	2144X *	USES	A,F,D,E			
	2145X 2146X			• • • • • • • • • • • • • • • • • • • •		
070.274	2146X 2147X \$INDL	COLL	700744	TN 1412 BOW		
030,234 005,103	2148	. EQU XTEXT	30234A INDXX	IN H17 ROM		
		,				
				• • • • • • • • • • • • • • • • • • • •		••••
	2150X **	\$INDLB	- INDEXED LOAD	BYTE		
	2151X *					
	2152X.*	BYTEIN	DEXED LOAD PRIMI	TIYE		• • • • • • • • • • • • • • • • • • • •
	2153X *					
•••••••••••••••••••••••••••••••••••••••	2154X *	ENTRY;	.HL = BASE. (RET) = FULL	ADDRESS		
	2155X * 2156X *		(KEI) = FULL	MOKE KELUCATION		
••••••	2157X *	EXIT:	A = ( HL	+ (RET) )	•••••	
	2158X *		– \ HL	- NINE 17 /		
	2159X *	USES:		• • • • • • • • • • • • • • • • • • • •		••••••
	2160X *				•	
	2161X					• • • • • • • • • • • • • • • • • • • •
005.103 353 005.104 343	2162X \$INDLB	XCHG	*****************	DE = BASE		
	2163X	XTHL	_	SAVE .DE.		
005,105 325	2164X	PUSH	. <u>D</u>	SAVE BASE		
005.106 305	2165X	PUSH	В	SAVE .BC.		
005 407 447	2166X		C,M	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
005.107 116 005.110 043	2167X 2168X	VOM	69점 나			
005.111 106	2100A 2169X	MOV	.Н. В•М	BC = OFFSET	••••••	• • • • • • • • • • • • • • • • • • • •
005.112 043	2170X	IŅX	.Н	HL = ,RET,		
	2171X	AVII			•••••	• • • • • • • • • • • • • • • • • • • •
005.113 353	2172X	XCHG		HL = BASE		
005.114 011	2173X	DAD	B	HL = BASE + OF	FSET	• • • • • • • • • • • • • • • • • • • •
005.115 176	2174X	MOV	.A.M	A = ( BASE + (		
005.116 353	2175X	XCHG		HL = .RET.		
AAF 447 7A4	2 <u>176</u> X	POP				
005.117 301 005.120 321	2177X		B	RESTORE .BC.		
005.120 321 005.121 343	2178X 2179X	. POP XTHL	. D	RESTORE BASE		
005.121 343		X THE		HL = .DE. ; (Si DE = .DE. ; HL	"/ = +NE!+ - DACE	
005.123 311	2180X 2181X	RET	•••••	x+T1251.7N4.	.T. AR9E	• • • • • • • • • • • • • • • • • • • •
			•••••	• • • • • • • • • • • • • • • • • • • •		
·	• • • • • • • • • • • • • • • • • • • •		***************************************	• • • • • • • • • • • • • • • • • • • •		
	3107V ++	& TAITIO	. INDEVER ATAL	·F		
	2183X ** 2184X *	…≜Yünö…	- INDEXED STOR	E		
	2185X *	INDEXED	STORE PRIMITIVE	• .		
***************************************	2186X *		. S. ONE . NINE LIVE	` <del>`</del> `	••••••	• • • • • • • • • • • • • • • • • • • •
	2187X *	ENTRY:	HL = BASE ADDRE	SS		
***************************************	2188X *		DE = VALUE TO S	TORE	•••••	•••••
	2189X *			-· <del>-</del>		
	2190X *	ĖXIT:	( HL + (RET) )	= DE	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	2191X *					

SECOND HDOS COMMON DECKS					HEATH HBASM V1.4 01/20/78 PAGE 48 \$INDS 14:20:55 16-MAY-80
		. 51 A5X .*	USES	NONE	
		2193X *			
		2194X			
005.124	315 301 005	2195X \$IN		XCHGBC	
005.127	343	2196X	XTHL		SAVE .BC.
005.130	. 325	2197X	PUSH	D	
005.131	315 201 005	2198X	CALL	TUDEHL	DE = OFFSET
005.134	315 301 005	2199X	CALL	XCHGBC	BC = .RET.
005.137	353	2200X	XCHG		DE = BASE ; HL = OFFSET
005.140	031	2201X	DAD	D	HL = BASE + OFFSET
005.141	353	2202X	XCHG		
005.142	343	2203X	XTHL		SAVE BASE DE = VALUE
005.143	353	2204X	XCHG		DE = VALUE
005,144	315 206 005	2205X	CALL	ISDEHL	
005.147	341	2206X	POP	Н	HL = BASE
005.150	315 301 005	2207X	CALL	XCHGBC	
005.153	343	2208X	XTHL		RESTORE .BC.
005.154	315 301 005	2209X	CALL	XCHGBC	
005.157	311	2210X	RET		
• • • • • • • • • • • • • • • • • • • •		.2212X **.	≱TMD2₽	- INDEXED BYTE	STURE
		2213X *			
			INDEXED	BYTE STORE.	
	•••••	2214X *	INDEXED	BYTE STORE,	
	······································	2214X * 2215X *			TO STORE
		2214X *	INDEXED	A = VALUE	TO STORE ADDRESS
		2214X * 2215X * 2216X *		A = VALUE	ADDRESS
		2214X * 2215X * 2216X * 2217X * 2218X * 2219X *		A = VALUE HL = BASE	ADDRESS
		2214X * 2215X * 2216X * 2216X * 2217X * 2218X * 2219X * 2220X *		A = VALUE HL = BASE	ADDRESS
		2214X * 2215X * 2216X * 2217X * 2218X * 2219X *	ENTRY:	A = VALUE HL = BASE (RET) = OFFSE	ADDRESS
		2214X * 2215X * 2216X * 2216X * 2217X * 2218X * 2219X * 2220X *	ENTRY:	A = VALUE HL = BASE (RET) = OFFSE NONE	ADDRESS
		2214X * 2215X * 2216X * 2217X * 2217X * 2218X * 2219X * 2220X * 2221X *	ENTRY:	A = VALUE HL = BASE (RET) = OFFSE NONE	ADDRESS
		2214X * 2215X * 2215X * 2217X * 2217X * 2219X * 2220X * 2221X * 2222X * 2222X * 2224X	ENTRY: EXIT; USES;	A = VALUE HL = BASE (RET) = OFFSE NONE	ADDRESS
005.160		2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2223X * 2223X *	ENTRY: EXII; USES:	A = VALUE HL = BASE (RET) = OFFSE NONE	ADDRESS
005.161	343	2214X * 2215X * 2216X * 2217X * 2218X * 2219X * 2220X * 2221X * 2222X * 2223X * 2223X * 2225X \$IN 2226X	ENTRY:  EXII:  USES:  DSB XCHG  XTHL	A = VALUE HL = BASE (RET) = OFFSE NONE PSW	ADDRESS
005.161	. 343 325	2214X * 2215X * 2216X * 2217X * 2218X * 2219X * 2221X * 2223X * 2224X \$IN 2225X \$2227X	ENTRY:  EXIT:  USES:  DSB XCHG  XTHL  PUSH	A = VALUE HL = BASE (RET) = OFFSE NONE PSW	ADDRESS  IT  DE = BASE  SAVE .DE.  SAVE BASE
005.161	. 343 325	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2223X * 2224X 2225X \$IN 2226X 2228X	ENTRY:  EXII:  USES:  DSB XCHG  XTHL	A = VALUE HL = BASE (RET) = OFFSE NONE PSW	ADDRESS IT  DE = BASE SAVE .DE.
005.161 005.162 005.163	343 325 305	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2222X * 2224X * 2225X \$IN 2226X 2227X 2229X	ENTRY:  EXIT:  USES:  DSB XCHG  XTHL  PUSH  PUSH	A = VALUE HL = BASE (RET) = OFFSE NONE PSW	ADDRESS  IT  DE = BASE  SAVE .DE.  SAVE BASE
005.161 005.162 005.163 005.164	343 325 305 116	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2222X * 2225X \$IN 2226X 2227X 2227X 2228X 2229X 2229X 2229X 2229X 2229X 2229X	ENTRY:  EXIT:  USES:  DSB XCHG  XTHL  PUSH  PUSH  MOV	A = VALUE HL = BASE (RET) = OFFSE NONE PSW	ADDRESS  IT  DE = BASE  SAVE .DE.  SAVE BASE
005.161 005.162 005.163 005.164 005.165	343	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2223X * 2225X \$IN 2226X 2227X 2228X 2229X 2229X 2230X 2231X	ENTRY:  EXIT:  USES:  DSB XCHG  XTHL  PUSH  PUSH  MOV  INX	A = VALUE HL = BASE (RET) = OFFSE NONE PSW D B C,M	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.
005.161 005.162 005.163 005.164 005.165 005.166	343. 325 305. 116. 043.	2214X * 2215X * 2216X * 2217X * 2219X * 2229X * 2221X * 2223X * 2224X * 2225X \$IN 2226X \$2227X 2228X 2229X 2229X 2229X 2229X 2230X 2230X 2231X 2232X	ENTRY:  EXIT:  USES:  USES:  USB XCHG  XTHL  PUSH  PUSH  PUSH  MOV  INX  MOV	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.
005.161 005.162 005.163 005.164 005.165	343. 325 305. 116. 043.	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2223X * 2224X * 2225X \$IN 2226X * 2227X * 2229X * 2230X * 2231X * 2231X * 2232X * 22333X *	ENTRY:  EXIT:  USES:  DSB XCHG  XTHL  PUSH  PUSH  MOV  INX	A = VALUE HL = BASE (RET) = OFFSE NONE PSW D B C,M	ADDRESS  IT  DE = BASE  SAVE .DE.  SAVE BASE
005.161 005.162 005.163 005.164 005.165 005.166 005.167	343. 325. 305. 116. 043. 106. 043.	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2222X * 2225X \$IN 2226X 2227X 2229X 2229X 2230X 2231X 2232X 2233X 2233X 2234X	ENTRY:  EXIT:  USES:  USES:  THL  PUSH  PUSH  MOV  INX  MOV  INX	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.  BC = OFFSET HL = .RET.
005.161 005.162 005.163 005.164 005.165 005.166 005.167	343 325 305 116 043 106 043	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2222X * 2225X \$IN 2226X 2227X	ENTRY:  EXIT:  USES:  DSB XCHG  XTHL  PUSH  PUSH  MOV  INX  MOV  INX  XCHG	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.  BC = OFFSET HL = .RET.  HL = BASE
005.161 005.162 005.163 005.164 005.165 005.166 005.167	343 325 305 116 043 106 043 353	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2223X * 2225X \$IN 2226X 22278X 2229X 2229X 2231X 2233X 2233X 22334X 2235X 2236X	ENTRY:  EXIT:  USES:  U	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.  BC = OFFSET HL = .RET.  HL = BASE HL = BASE + OFFSET
005.161 005.162 005.163 005.164 005.165 005.166 005.167 005.170 005.171	343 325 305 116 043 106 043 353 011	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2221X * 2223X * 2224X * 2225X \$IN 2226X * 2226X * 2226X * 2226X * 2230X * 2230X * 2234X * 2237X * 2233X * 2234X * 2237X * 2233X * 2234X * 2235X *	ENTRY:  EXIT:  USES:  DSB XCHG  XTHL  PUSH  PUSH  MOV  INX  MOV  INX  XCHG  DAD  MOV	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.  BC = OFFSET HL = .RET.  HL = BASE
005.161 005.162 005.163 005.164 005.165 005.166 005.167	343 325 305 116 043 106 043 353	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2222X * 2224X * 2224X * 2225X \$IN 2226X * 2230X * 2231X * 2236X * 2233X *	ENTRY:  EXIT:  USES:  U	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.  BC = OFFSET HL = .RET.  HL = BASE HL = BASE + OFFSET
005.161 005.162 005.163 005.164 005.165 005.166 005.167 005.170 005.171 005.172 005.173	343 325 305 116 043 106 043 353 011 167 353	2214X * 2215X * 2216X * 2217X * 2217X * 2219X * 2220X * 2221X * 2222X * 2222X * 2222X * 2225X \$IN 2226X 2227X 2225X 2225X 2225X 2226X 2227X 2230X 2231X 2232X 2236X 2236X 2236X 2236X 2236X 2236X 2236X 2236X 2236X 2237X 2238X 2238X 2238X	ENTRY:  EXIT:  USES:  DSB XCHG  XTHL  PUSH  PUSH  MOV  INX  MOV  INX  XCHG  DAD  MOV  XCHG	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.  BC = OFFSET HL = .RET.  HL = BASE HL = BASE + OFFSET ( BASE + OFFSET) = A
005.161 005.162 005.163 005.164 005.165 005.166 005.167 005.170 005.171 005.172 005.173	343 325 305 116 043 106 043 353 011 167 353	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2222X * 2225X \$IN 2226X 2227X 2227X 2226X 2227X 2236X 2235X 2236X	ENTRY:  EXIT:  USES:  USES:  DSB XCHG  XTHL  PUSH  PUSH  MOV  INX  MOV  INX  XCHG  DAD  MOV  XCHG  POP	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M H B M,A	ADDRESS IT  DE = BASE SAVE DE. SAVE BASE SAVE BASE SAVE BC.  BC = OFFSET HL = +RET.  HL = BASE HL = BASE + OFFSET ( BASE + OFFSET) = A  RESTORE +BC.
005.161 005.162 005.163 005.164 005.165 005.166 005.167 005.170 005.171 005.172 005.173 005.174	343 325 305 116 043 106 043 353 011 167 353 301 321	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2220X * 2221X * 2222X * 2222X * 2225X \$IN 2226X 2227X 2228X 2227X 2236X 2235X 2236X 2236X 2236X 2236X 2236X 2236X 2236X 2237X 2238X	ENTRY:  EXIT:  USES:  USES:  DSB XCHG  XTHL  PUSH  PUSH  MOV  INX  MOV  INX  XCHG  DAD  MOV  XCHG  POP  POP	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.  BC = OFFSET HL = .RET.  HL = BASE HL = BASE + OFFSET ( BASE + OFFSET) = A  RESTORE .BC. RESTORE .BC.
005.161 005.162 005.163 005.165 005.166 005.167 005.170 005.171 005.172 005.173 005.174 005.175 005.175	343 325 305 116 043 106 043 353 011 167 353 301 321 343	2214X * 2215X * 2216X * 2217X * 2219X * 2219X * 2221X * 2223X * 2224X * 2224X * 2225X \$IN 2226X * 2224X * 2225X \$223X * 2234X * 2236X	ENTRY:  EXIT:  USES:  USES:  USB XCHG  XTHL  PUSH  PUSH  MOV  INX  XCHG  MOV  XCHG  MOV  XCHG  POP  POP  YTHL	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M H B M,A	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.  BC = OFFSET HL = .RET.  HL = BASE HL = BASE + OFFSET ( BASE + OFFSET) = A  RESTORE .BC. RESTORE .BC. RESTORE BASE HL = .DE. \$ (SP) = .RET.
005.161 005.162 005.163 005.164 005.165 005.166 005.167 005.170 005.171 005.172 005.173 005.174	343 325 305 116 043 106 043 353 011 167 353 301 321 343 353	2214X * 2215X * 2216X * 2217X * 2217X * 2219X * 2220X * 2221X * 2222X * 2222X * 2225X \$IN 2226X 2227X 2228X 2227X 2236X 2235X 2236X 2236X 2236X 2236X 2236X 2236X 2236X 2237X 2238X	ENTRY:  EXIT:  USES:  USES:  DSB XCHG  XTHL  PUSH  PUSH  MOV  INX  MOV  INX  XCHG  DAD  MOV  XCHG  POP  POP	A = VALUE HL = BASE (RET) = OFFSE NONE PSW  D B C,M H B,M H B M,A	ADDRESS IT  DE = BASE SAVE .DE. SAVE BASE SAVE .BC.  BC = OFFSET HL = .RET.  HL = BASE HL = BASE + OFFSET ( BASE + OFFSET) = A  RESTORE .BC. RESTORE .BC.

SECOND HOOS OVERLAY COMMON DECKS				\$INDSB	HEATH HEASH U1.4 01/20/78	PAGE 49
005.201	2245	XTEXT	TUBEHU			
		• • • • • • • • • • • • • • • • • • • •		•••••		
	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •		•••••
••••••	2247X ** 2248X *	ILDEHL	- INDEX	KED LOAD OF DE FRO	M HL	•••••
	2249X *	'DE' GE	THE FUL	L WORD VALUE POIN	ITED TO BY 'HL', AND 'HL' IS	
	2250X ¥ 2251X ¥	INCREME	NTED BY T	rwo.		*******
***************************************	2252X * · · ·	ENTRY:	HL	= ADDRESS OF FULL	WORD VALUE	•••••
	2253X_* 2254X_*	EXIT:	ne	·= (HL)		
	2255X *			= HL + 2		
	2256X *			************************	***************************************	•••••
•••••	2257X * 2258X *	USES:	DE			*******
•	2259X					
005.201 136	2260X 1LDE		EYM	•••••	***************************************	•••••
005.202 043 005.203 126	2261X 2262X	INX	H Dan	**********		******
005.204 043	2263X	INX	. Н 			
005.205 311	2264X	RET		• • • • • • • • • • • • • • • • • • • •	•••••	•••••
005.206	2265	XTEXT	ISDEHL			
	2267X ** 2268X * 2269X *	store		KED STORE OF DE AT HE ADDRESS POINTED	THE BY THEY, AND INCREMENT THE THE	
•••••	2270X * 2271X *	BY 2.				*******
	2272X *	ENTRY:		= VALUE		
	2273X*		HL.	= ADDRESS OF VALUE	E	
	2274X_* 2275X_*	EXIT:		= DE		*******
	2276X *			= HL + 2	•	
	2277X *			***********************	•••••••••••••••••••••••••••••••••••••••	***************************************
•••••	2278X * 2279X *	USES:	HL			*******
	2280X					
005.206 163	5581X . ISDE			• • • • • • • • • • • • • • • • • • • •	•••••	••••••
005.207 043 005.210 162	2282X	INX MOV	H b			*******
005.211 043	2284X	INX	H			
005.212 311	2285X	RÉT		• • • • • • • • • • • • • • • • • • • •	•••••	•••••
005.213	2286	XTEXT	MCU			
	•••••					•••••
					•••••	
				· · · · · · · · · · · · · · · · · · ·		

SECOND HOOS OVERLAY COMMON DECKS	*******	HEATH H8ASM V1.4 01/20/78 PAGE 50 \$MCU 14:20:59 16-MAY-80
••••••••••••••		MON MAR LOUER GARE TO UPPER GARE
	2288X ** 2289X *	MCU - MAP LOWER CASE TO UPPER CASE.
•••••	2290X *	MCU MAPS A LOWER CASE ALPHABETIC TO UPPER
	2291X *	CASE.
	2292X *	
• • • • • • • • • • • • • • • • • • • •	2293X *	ENTRY (A) = CHARACTER
	2294X *	EXIT (A) = CHARACTER RESULT
• • • • • • • • • • • • • • • • • • • •	2295X *	USES A,F
	2297X	
005.213 376 141	2298X \$MCU	CPI 'a'
005.215 330	2299X	RC NOT LOWER CASE
005.216 376 173	2300X	CPI 'z'+1
005.220 320	2301X	RNC NDT LOWER CASE
005.221 326 040	2302X	SUI 'a'-'A'
005.223 311 005.224	2303X 2304	RET XTEXT MOVE
003.224	2304	ATEXT MOVE
	• • • • • • • • • • • • • • • • • • • •	
	2306X **	\$MOVE - MOVE DATA
	2307X *	
	2308X *	\$MOVE MOVES A BLOCK OF BYTES TO A NEW MEMORY ADDRESS.
	2309X *	IF THE MOVE IS TO A LOWER ADDRESS, THE BYTES ARE MOVED FROM
	2310X *	FIRST TO LAST.
	2311X *	
• • • • • • • • • • • • • • • • • • • •	2312X * 2313X *	IF THE MOVE IS TO A HIGHER ADDRESS, THE BYTES ARE MOVED FROM LAST TO FIRST.
	2314X *	LHSI: IU FIRSI.
••••••	2315X *	THIS IS DONE SO THAT AN OVERLAPED MOVE WILL NOT 'RIPPLE'.
	2316X *	
	2317X *	ENTRY (BC) = COUNT
	2318X *	(DE) = FROM (HL) = TO
	2319X *	
• • • • • • • • • • • • • • • • • • • •	2320X * 2321X *	EXIT MOVED  (DE) = ADDRESS OF NEXT FROM BYTE
•	2322X *	(HL) = ADDRESS OF NEXT *TO* BYTE
••••••	2323X *	C' CLEAR
	2324X *	USES ALL
	2325X	
	2326X	TERM TO AWARAY
030.252 005.224	2327X \$MOVE	EQU 30252A IN H17 ROM
	2328	XTEXT MOVEL
• • • • • • • • • • • • • • • • • • • •		
•••••	2330X **	\$MOVEL - MOVE DATA
	2331X *	
	2332X *	\$MOVEL MOVES A BLOCK OF BYTES TO A NEW MEMORY ADDRESS.
	2333X *	IF THE MOVE IS TO A LOWER ADDRESS, THE BYTES ARE MOVED FROM
	2334X *	FIRST TO LAST.
	2335X *	THE TEMP TO A METTER TO THE TANKE AND THE COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A COLUMN TO A
	2336X *	IF THE MOVE IS TO A HIGHER ADDRESS, THE BYTES ARE MOVED FROM
	2337X *	LAST TO FIRST.

COMMON DECKS	3	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	HEATH H8ASM V1.4 01/20/78 PAGE 51 \$MQVEL 14:21:04 16-MAY-80
•••••	• • • • • • • • • • • • • • • • • • • •	2338x *	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
		2339X ¥	THIS IS	DONE SO THAT AN	N OVERLAPED MOVE WILL NOT 'RIPPLE'.
	•••	2340X *			
		2341X *	CALL	\$MOVEL	
		2342X *	₽₩	COUNT	
		. 2343X *	BW	FROM	
		2344X *	₽₩	TO	
		2345X * 2346X *	ENTRY	((SP)) = RET	
		2347X *	ENIKI	(RET+0) = COUNT	T (MORD UALUE)
	• • • • • • • • • • • • • • • • • • • •	2348X *	• • • • • • • • • • • • • • • • • • • •	(RET+2) = FROM	
	,	2349X *		(RET+4) = TO	
		2350X ¥	EXIT	TO (RET+6)	
		2351X *			OF NEXT FROM BYTE
		2352X *		(HL) = ADDRESS	OF NEXT *TO* BYTE
		2353X *			
		2354X *	USES	ALL	
	• • • • • • • • • • • • • • • • • • • •	. 2355X 2356X			
005.224	3 <b>4</b> 1	2350X 2357X \$MOVEL	ene	ш	(HL) = BET
005.225			POP MOV	H C+M	(HL) = RET
		2359X	INX	H	
005,227	106	2360X	MOV	∵	(BC) = COUNT
005,230		2361X	INX	Ĥ.	(20) - BOOK!
005.231		2362X	MOV	E,M	
005,232		.2363X	INX	<del>H</del>	
005.233		2364X	MOV	D•M	(DE) = FROM
	043	. 2365X	INX	<u>н</u>	
005.235	325	2366X	PUSH	D	((SP)) = FROM
		. 2367X 2368X	MOV	<u>E</u> ,M	
		2369X	MOV	H n-×	(DE) - TO
	043	2370X	INX	Д,М Н	(DE) = TO
005,242		2371X	XTHL		((SP)) = RET, (HL) = FROM
005.243		2372X	XCHG	• • • • • • • • • • • • • • • • • • • •	(DE) = FROM , (HL) = TO
	303 252 030		JMP	\$MOVE	MOVE IT
005.247		2374	XTEXT	SOB	
		• • • • • • • • • • • • • • • • • • • •			
		7774V ++	denb _	CKID DUED DU ANKO	n
		2376X ** 2377X *		SKIP OVER BLANKS	<b>34</b>
	*** **********	2378X *	\$SOB IS	CALLED TO SKIP	AN ARBITRARILY LONG STRING OF BLANKS AND TABS.
		2379X *			
		2380X *	ENTRY		(POSSIBLE) BLANK STRING
		2381X *	EXIT	(HL) = LWA+1 OF	F BLANK STRING (UNCHANGED IF NO BLANKS)
• • • • • • • • • • • • • • • • • • • •		.2382X *		(A) = FIRST NON	N-BLANK, NON-TAB CHARACTER EEN
	`	2383X *	USES	A,F,H,L	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	. 2384X 2385X		• • • • • • • • • • • • • • • • • • • •	
005.247	053	2386X \$SOB	DCX	н	PRE-DECREMENT
005.250		2387X \$SOB1	INX	·	THE PEOPLEMIA
005.251		2388X	MOV		
005.252	376 040	2389X	CPI	<u>À*</u> M	
005.254	312 250 005	2390X	JE	\$SOB1	GOT BLANK
				· · · · · · · · · · · · · · · · · · ·	

SECOND HDOS		•••••					1.4 01/20/78	PAGE 52
COMMON DECKS	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		\$SI	ÒB	14:21:06 16-	MAY-80	
005.257	376 011	2391X	CPI	TAB				
	.312.250.005	.239.2X	.JE	\$50B1 GO	ТТА₿			
005.264		2393X	RET					
000.001	• • • • • • • • • • • • • • • • • • • •	.2394 	.IF. XTEXT	.DEBUGTRACE	• • • • • • • • • • • • • • • • • • • •			
		.239.6	ENDIF	– –				
005.265		2397	XTEXT	TYPCC		•••••		
•	** ****************			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	
		.2399X **	\$TYPCC:	TYPE A CHARACTER S	STRING BY COUN	T		
		2400X *						
•••••	•••••••	.2491X.* 2402X *	STYPEC	[YPES.A.STRING.OF.C  RACTER ADDRESS AND (	HARACTERS. THE	E.CALLER.SUPPL	IES	
		2403X *	INE CHAI	HEIER HUBRESS HND I	LUUNI.			
		2404X *	ENTRY	(HL) = ADDRESS	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	**********************	***************************************
•••••		.2405X .*		(A) = COUNT				
		2406X *	EXIT	(HL) = LAST CHARACT	TER ADDRESS+1			
••••	• • • • • • • • • • • • • • • • • • • •	. 2407X . *	. พอะอ	AzF.zHzL		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••
************************		2409X						
005.265		2410X \$TYPCC		*	••••••		*********************	
				. <b>a</b>				
005,266 		2412X .2413X	RZ P.USH		THING TO TYPE			
005.270		2414X			YE COUNT	•••••	• • • • • • • • • • • • • • • • • • • •	
		.2415X	INX	.н.				
005.272		2416X	DB	SYSCALL, SCOUT				
		.2417X 2418X	POP DCR	.PSW	• • • • • • • • • • • • • • • • • • • •			
	.303.265.005		JMP					
005.301		2420	XTEXT	TYPTX	• • • • • • • • • • • • • • • • • • • •	***************************************	***************************************	• • • • • • • • • • • • • • • • • • • •
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		.2422X .**	.\$TYPTX.:	TYPETEXT				
		2423X #						
		.2424X.* 2425X *	.#.U#JX	D. PHEFEN IN TITE A	. AFNAV. OF. TEXT	un.ihe.syste	m CUNSULE.	
		.2426X *	IMBEDDE	ZERO BYTES INDICA	TE A CARRIAGE	RETURN LINE F	EED,	
		2427X *	A BYTE I	ITH THE 2000 BIT SE	ET IS THE LAST	BYTE IN THE	MESSAGE.	
•••••		.2428X .*	ENTEV	/OCT\ _ TEVT				
		2429X * 2430X *	ENTRY EXIT	(RET) = TEXT TO (RET+LENGTH)				
***************************************	•• •••••	2431X *	USES	A,F	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		•••••••••••••••••••••••••••••••••••••••
		2432X		***************************************				
071.174		2433X	EOU	7117/4	1112 504			
031.136	• • • • • • • • • • • • • • • • • • • •	.2434X \$TYPTX 2435X	··ቲ&ስ·····	31136A IN	H17 ROM			
031.144		2436X \$TYPTX.	EQU	31144A IN	H17 ROM			
005.301		2437	XTEXT	UDD			• • • • • • • • • • • • • • • • • • • •	***************************************
								• • • • • • • • • • • • • • • • • • • •
	•••••••		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	•••••
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COMMON DECKS		HEATH H8ASM V1.4 01/20/78 PAGE 53 \$UDD 14:21:15 16-MAY-80
	2439X **	\$UDD - UNPACK DECIMAL DIGITS.
	2440X * 2441X *	UDD CONVERTS A 16 BIT VALUE INTO A SPECIFIED NUMBER OF
	2442X *	DECIMAL DIGITS. THE RESULT IS ZERO FILLED.
	2443X ¥	Pedinal Pidio, ML Reder 15 Leve / Iteles.
	2444X *	ENTRY (B,C) = ADDRESS VALUE
	2445X *	(A) = pigit count
	2446X *	(H,L) = MEMORY ADDRESS
	2447X *	EXIT (HL) = (HL) + (A) USES ALL
	2448X * 2449X	USES ALL
	2450X	
031.157	2451X \$UDD	EQU 31157A IN H17 ROM
005.301	2452	XTEXT WER
•••••	2454X **	\$WER - WRITE ENABLE RAM.
	2455X *	
	2456X *	\$WER IS CALLED TO ENABLE WRITTING TO THE H17 CONTROLLER'S
	2457X *	RAM AREA.
	2458X *	ENTEN MOVE
	2459X * 2460X *	ENTRY NONE EXIT NONE
	2461X *	USES NONE
• • • • • • • • • • • • • • • • • • • •	2462X	9350
	2463X	
031.241	2464X \$WER	EQU 31241A IN H17 ROM
	2466X **	\$WDR - WRITE DISABLE RAM.
	2467X *	
	2468X *	\$WDR IS CALLED TO DISABLE WRITTING TO THE H17 CONTROLLER'S
	2468X * 2469X *	\$WDR IS CALLED TO DISABLE WRITTING TO THE H17 CONTROLLER'S RAM AREA.
	2468X * 2469X * 2470X *	RAM AREA.
	2468X * 2469X * 2470X * 2471X *	RAM AREA. ENTRY NONE
	2468X * 2469X * 2470X *	RAM AREA.
	2468X * 2469X * 2470X * 2471X * 2472X * 2473X * 2474X	RAM AREA.  ENTRY NONE EXIT NONE
	2468X * 2469X * 2470X * 2471X * 2472X * 2473X * 2473X * 2474X 2475X	RAM AREA.  ENTRY NONE EXIT NONE USES NONE
031.222	2468X * 2469X * 2470X * 2471X * 2472X * 2473X * 2474X 2475X 2476X \$WDR	RAM AREA.  ENTRY NONE EXIT NONE USES NONE  EQU 31222A IN H17 ROM
031.222 005.301	2468X * 2469X * 2470X * 2471X * 2472X * 2473X * 2473X * 2474X 2475X	RAM AREA.  ENTRY NONE EXIT NONE USES NONE
031.222 005.301	2468X * 2469X * 2470X * 2471X * 2472X * 2473X * 2474X 2475X 2476X \$WDR	RAM AREA.  ENTRY NONE EXIT NONE USES NONE  EQU 31222A IN H17 ROM
031.222 005.301	2468X * 2469X * 2470X * 2471X * 2472X * 2473X * 2475X 2475X 2475X 2476X \$WDR 2477	RAM AREA.  ENTRY NONE EXIT NONE USES NONE  EQU 31222A IN H17 ROM XTEXT XCHGBC
031.222 005.301	2468X * 2469X * 2470X * 2471X * 2472X * 2473X * 2475X 2475X 2476X \$WDR 2477	RAM AREA.  ENTRY NONE EXIT NONE USES NONE  EQU 31222A IN H17 ROM XTEXT XCHGBC  XCHGBC - XCHG BC
031.222 005.301	2468X * 2469X * 2470X * 2471X * 2471X * 2472X * 2473X * 2475X 2475X 2476X \$WDR 2477	RAM AREA.  ENTRY NONE EXIT NONE USES NONE  EQU 31222A IN H17 ROM XTEXT XCHGBC
031.222 005.301	2468X * 2469X * 2479X * 2471X * 2471X * 2472X * 2473X * 2475X 2475X 2476X \$WDR 2477  2479X ** 2480X * 2481X * 2482X *	RAM AREA.  ENTRY NONE EXIT NONE USES NONE  EQU 31222A IN H17 ROM XTEXT XCHGBC   XCHGBC - XCHG BC  EXCHANGE THE 'BC' REGISTER PAIR WITH THE 'HL' REGISTER PAIR.
031.222 005.301	2468X * 2469X * 2470X * 2471X * 2471X * 2472X * 2473X * 2475X 2475X 2476X \$WDR 2477	RAM AREA.  ENTRY NONE EXIT NONE USES NONE  EQU 31222A IN H17 ROM XTEXT XCHGBC  XCHGBC - XCHG BC

COMMON DECKS			XCHGRC	HEATH H8ASM V1.4 01/20/78 PAGE 54 14:21:19 16-MAY-80
	2486X *	EXIT:	BC = ORIGINAL HL	
.,	2487X *		HL = ORIGINAL BC	
	2488X *			***************************************
	2489X *	USES:	BC,HL	
	2490X *			
005.301 365	2491X 2492X XCHGBC	PUSH	PSW	
005,302 170	2493X		A,B	
005.303 104	2494X	· • • • • • • • • • • • • • • • •	н, р. В • Н	
005.304 147	2495X		H,A	
005.305 171	2496X		A+C	•••••••••••••••••••••••••••••••••••••••
005.306 115	2497X		C,L	
005.307 157	2498X		L,A	
005.310 361	2499X	POP	PSW	••••••
005.311 311	2500X	RET	•	
005.312	2501	XXEXT	ZERO	***************************************
***************************************	2503X **	\$ZERO -	ZERO MEMORY	
	2504X*			
	2505X *	\$ZERO ZE	ROS A BLOCK OF MEMORY.	•••••••••••••••••••••••••••••••••••••••
	250.6X .*		******************************	
	2507X *		(HL) = ADDRESS	
••••••	2508X.*		(B) .= .CQUNT	
	2509X *		(A) = 0	
***************************************	251QX * 2511X	848	AzBzFzHzL	
	2512X			
031.212	2513X \$ZERO	EQU	31212A IN H17 R	· · · · · · · · · · · · · · · · · · ·
			ZERQS	••••
			•••••	
	2516X **	8 CONSTA	NT ZERO BYTES.	
031.320	2517X 2518X \$ZEROS	FOU	31320A IN H17 R	
***************************************	2010X \$2ERUS	ERO .	31320A IN H17 R	
***************************************	•••••	• • • • • • • • • • • • • • • • • • • •		
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DATA	S	JVÉRLAY	• • • • • • • • • • • • • • • • • • • •				HEATH H8ASM V1.4 01/20/78 PAGE 55 14:21:25 16-MAY-80
•••••		• • • • • • • • • • • • • • • • • • • •	2521 2522		DATA FO	OR MOUNT & DIS	тиионе
			2523 · 2524	•••••••			
	6.320 6.320	704 105 12	2526	DEVNAME		O	- DEVICE UNIT NUMBER
005	.321	000 000	2528	DEVTAB	DW		DEVICE TABLE ADDRESS DEVICE UNIT TABLE ADDRESS
	.000	• • • • • • • • • • • • • • • • • • • •	2531 2532		'ÉQÚ'''	S.GRT24256	USE ROM/RAM SCRATCH AREA FOR LABEL INFORMATION
027			2533	"PGTA""	ĘØO	"S-GRT2+256"	WORK BUFFER FOR GRT (256 BYTES)
•••••							
• • • • • • • • • • • • • • • • • • • •			•••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	
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SECOND HDOS DATA		LAY 	• • • • • • •					•••••		SM V1.4 01/20/78 16-MAY-80	PAGE	56
• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	2536	*****	******	*******	*****			***	
	· · · · · ·			.2537			MATANAMATAN TOTT TO		80.47414.014 <b>4</b>			
				2538 2539	*	SB.OVMX	HIS OVERLAY, AND BYTES.	115 KELUCATI	ON TABLE MOST	USE LESS THAN	*	
				2540	*			TON TABLE CAN	NOT BE KNOWN	AT ACCEMBLY TIME	*	
	· · · · · ·	• • • • • •	• • • • • •	. 2541. 2542	* *	SO THE	'450' FIGURE USE	D BELOW IS AP	PROX, AND MUS	AT ASSEMBLY TIME: T BE WATCHED!	*	
				2543	*						<b>*</b>	
				2544 2545	*****	*****	******	*****	******	******	****	
005.325				2546		₽₩	'GC'	DUMY AREA F	OR UNWANTED RI	ELOCATIONS		
005,327 005,337				. 2547. 2548	• • • • • • • • • • • • • • • • • • • •	DB DB	0,0,0,0,0,0,0,0,0,0 0,0,0,0,0,0,0,0	!PAJ.C	H AREA			
005.347	000	000	.000	. 25.49.		DB	.0,0,0,0,0,0,0,0,0					
005.357 995.367				2550 2551		DB DB	0,0,0,0,0,0,0,0					
005.377				2552		DB	0,0,0,0,0,0,0,0,0,0,0,0,0 0,0,0,0,0,0,0		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	
373.227		• • • • •	• • • • • •	.2553 2554	• • • • • • • • • • •	ERRPL	*+400-SB.OVMX	TOO LARGE				
	<b></b> .		<del>.</del>	.2555		ERRF L.	*T400-38+0VHX	100 LHKOE				
				2556								
	•••••	• • • • •	• • • • • • •	.2557 2558	• • • • • • • • • • • •	LON	G				•••••	• • • • • • • • • • • • • • • • • • • •
				. 2559.		FMF.						
006.007	. 000	.027	000	2560		END	HOSOVL2					
	046	000	050	• • • • • • • • •		•••••				***************************************		
		.052.		• • • • • • •	• • • • • • • • • • • • • • • • • • • •		,	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
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	000	.214	.000.									
		.245			•							
	251	000	256				• • • • • • • • • • • • • • • • • • • •		******************			• • • • • • • • • • • • • • • • • • • •
• • • • • • • • • • • • • • • • • • • •		.265		• • • • • • •								• • • • • • • • • • • • • • • • • • • •
		317										
		000							••••••••			• • • • • • • • • • • • • • • • • • • •
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-		001 036					1				,	
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		.073										
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SECOND HDOS OVERLAY DATA	HEATH H8ASM V1.4 01/20/78 14:21:27 16-MAY-80	PAGE 57
151 001 161	······································	••••
001 166 001 206 001 214		••••
001 217 001 225 001 231		
001 237 001 245 001 264		••••
001 270 001 275 001 302		
001 307 001 316 001 323		
001 330 001 335 001 343		
001 351 001 360 001 366		
001 372 001 376 001 000		
002 004 002 013 002 020		
002 046 002 061 002 071		
002 104 002 112 002 117		
002 126 002 145 002 156		
002 165 002		
002 264 002 274 002 300		
002 302 002 305 002 315		
002 325 002 330 002 333		••••
002 366 002 377 002 022	·····	••••
003 025 003 037 003 061		••••
003 071 003 076 003 103		••••
003 121 003		
132 003 142 003 161 003 176 003 222		
003 240 003 245 003 256		••••
240 003 256 003 264 003 270 003 273		
003 277 003		,
311 003 320 003 325 003		
330 003 333 003 337 003		
347 003 352 003 357 003		
371 003 377 003 003 004		
	***************************************	*** ***********************************

SECOND HOOS OVERLAY DATA	HEATH HBASM V1.4 01/20/78 PAGE 58 14:21:27 16-MAY-80
	14+21+2/ 16-MAY-80
054 004 057	
004 132 004 137 004 145	
137 004 145 004 153 004	
157 004 164	
004 172 004 256 004 265	
004 274 004	
327 004 335 004 342 004	
354 004 360	
004 366 004 003 005 052	
005 062 005	
070 005 125 005 132 005	
135 005 145 005 151 005	
155 005 255	
005 262 005 277 005 000	
000	
ASSEMBLY COMPLETE 2540 STATEMENTS	
O ERRORS DETECTED	
10862 BYTES FREE	
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	isológia
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	<u>र्थें</u>
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<i>3</i>	

L.	ROSS R	EFERENCE	TABLE						XREF V	59					
	1						••••••		· / · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••••
	CFD	.030216 .005012*	1992E	2104											
	CHL	030224	1924	2033E											
	CDAP	. 030090	1404	2054E		• • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
	CRLF	0050341	1492	2066L											
	DADA. DTB	030101	861	1401	1706	1829	1843	2079E							
	<b>อ้า</b> ชิ้า	005046	1490 2095L	2091L 2098											
	DTB2	005055	2103L	2108											
\$	DTB3	0050727	2105	2112L		• • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	•••••	. ,		• • • • • • • • • • • • • • • • • • • •		
	HLIHL	030211	1409	1854	2130E										
	INDL	030234	1079	1082	1606	1619	1630	1642	1663	1730	1733	1868	2147	<u> </u>	•••••
	INDLB INDS	.005103′. .005124′.	1554 1535	1660 1540	1681 1633	1889	2162L								
• <b>.</b>		005124	1566	2225L	1033	2195L									
	MCU	0052137	1264	1269	2298L		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •					
	MOVE	030252	2327E	2373											
	MOVEL	0052241	1302	1481	2357L		• • • • • • • • • • • • • • • • • • • •						• • • • • • • • • • • • • • • • • • • •		
	SOB SOB1	.0052471 .005250	1047 2387L	<u>1141</u> 2390	1258 2392	2386L						<b></b>			
	TYPCC	0052651	1168	2370 1491	2372 2410E	2410									
		031136	1164	1169	2434E	2419	• • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·			
		031144	2436E												
	UDD	031157	1480	2451E				• • • • • • • • • • • • • • • • • • • •					• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	WDR WER	031222	2476E												
	ZERO	031241	997 2513E	1448	1597	2464E									
	ZEROS	031320	2518E	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •							
	ABUSS	040024	125E												
	ALARM	002136	98E		••••••								• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	ALEDS CHFLG	040013	123E 275L					• • • • • • • • • • • • •							
	CLEAR	000055	273L 272L												
		000056	273L	•••••		• • • • • • • • • • • •	• • • • • • • • • • • • •		• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •					
	CLOSE	000046	265L												
	CLRCO	000007	249L											• • • • • • • • • • • • • • • •	
	CONSL CRC	000006	248L 106E												
		040027	126E												
	CTC	002172	100E		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •		• • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
	CTLC	000041	260L												
		040011	122E				• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •					
	· · · · · · · · · · · · · · · · · · ·	000053	270L 267L												• • • • • • • • • • • • • • • • • • • •
		000030	276L												
	DLEDS	040021	124E	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •			,
	DLY	000053	95E												
	DMNMS	000203	287L	881										• • • • • • • • • • • • • • • • • • • •	
	DOD DOD	000201	285L 109E	875											
	DODA	003356	111E												***************************************
		040007	······120E·····	• • • • • • • • • • • • • • • •								· · · · · · · · · · · · · · · ·			
	DSPROT	040006	119E												
	DUMP	001374	97Ė							• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		•••••
	ERROR EXIT	.000057 .000000	274L												
	HORN	002140	242L 99E											•••••••	***************************************
		.000000	94E	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •		· · · · · · · · · · · · · · ·	<i></i>		• • • • • • • • • • • • •					
			· ·-												

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SECOND HDOS OVERLAY	XREF VI.1
CROSS REFERENCE TABLE	
	117E
	259L
	96E 277L
	277L 250L
	121E
	286L 878
•MDUNT 000200	<b>284L 847 8</b> 72 <b>8</b> 72 <b>8</b> 75 <b>878 881 884</b>
	271L
	264L
	261L 263L
	262L
	102E
	266L
•PRINT 000003	245L 1484 1486 1488
	110E
	246L
	118E 129E
	268L
	288L 884
•RNB 002331	105E
	104E
	243L
	244L 2067 2416
	269L 103E
	116E
	252L
	1285 1921 1935
	101E
	1275
	130E 251L
	108E
	107E
	247L
	537L
	535L
	531L 533L
	534L
	905L
	B2QL
	B16L
	B06L
	B01E B10L
	919L B11L
	R1.41
AIO.DTA 041053	909L
	B18L
	81/L
	902L 903L
	2021
	80%L
	•••••

SECOND HDO								PARE	4.1					
			• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • •			· /· /////	<del>1</del> 7.4				••••••	• • • • •
AIO.SPG		804L			. <b>.</b>									
AIO.TFP		819L												
AIO.UNI		81.2L	1064	1445	1910									
AIO.VEC		BOOL												
BELL	000007	<u>25</u> E	1165										• • • • • • • • • • • • • • • • • • • •	
BITS	004373′	1223	1311	1966L								•		
BITS1	0050001	1971L	19.73											
BKSP	000010	27E												
BOOT	000001	780E												
C.DSYN	000375	226E												
C.STX	000002	29E	. <i></i>						<i>.</i>					
C.SYN	000026	28E												
CAB	001203/	995	11.97ዜ		<u></u>								· · · · · · · · · · · · · · · · · · ·	
CAB.	0012341	1201	1208	1217L	1927									
	.001.205(	12011	1204	121 <del>4</del>	<i>.</i>									
CAB2	001216′	1208L	1211											
ÇB,CLI				· • • • • • • • • • • • • • • • • • • •										
CB.MTL	000040	63E												
	.000200 000020	65E 62E	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • •				
CDB.H84		723.Ę												
CDB.H85		7.49.5 722E	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •		• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · ·			. <i></i> .
	.0012631	982	1049	12501										
CDM2	002025	1266	1271	1258L 1275	1277	1285				• • • • • • • • • • • • •		• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	· • • • •
CDMA	002023	1303	1322L				1318L							
CDMB	002033	1282	1323L		· · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •			• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			· • • • •
CDS	004105	1002	1804L											
CDS1	004124	1821L	1830			• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • •	• • • • • • • • • • • • •		• • • • • • • • • • • •		• • • •
CDS2	0041361	1824	1828L											
CDS3	004147	1823	1834L				•••••	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • •
CDS4	0041501	1836L		1883										
CDS4.5	0041637	1840	1842L					• • • • • • • • • • •		• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •		• • • • •
CDS5	0041741	1838	18.48L,											
CDS6.	0042601	1828	1842	1887L			•••••			• • • • • • • • • • • • •				• • • • •
CDT	0020351	1107	1338L											
CDT1	0020401	1340L	1364									• • • • • • • • • • • • • • • • • • • •	,	• • • • •
CDT2	0020731	1351	1358L											
CDT3	002077'	1345	1356	1362L										
CF.F	0.31.35.4	15.4E												
CO.FLG	000001	699E												••••
CQF	.0021061	1059	1379L											
COF1	0021351	1394L	1412			,							***************************************	
	.0021671	1399	1407L											
COF3	0022031	1406	1417L										•	
	.0.922121	1382	1385	1.389	1.40.3	1.42.4L							• • • • • • • • • • • • • • • • • • • •	
CR	000015	21E												
CS.FLG		700E	· · · · · · · · · · · · · · · ·											
CSL . CHR		677E												
CSL.ECH.		675E												
CSL.WRP		676E												
	000001	3 <u>4E</u>												
CTLB	000002	37E												
CTLC	.000003	<u>38E</u>												
CTLD	000004	39E												
<u>cī</u> r <u>o</u>	000017	40E												
CTLP	000020	41E												
CTLQ CTLS	000021	42E 43E												
しょしろ	000023	43E												

CFICE   PAGE   A2   A2	SECOND HOOS OVERLAY	XREF V1.1
CTF 255 000010 485E CITE-NRI 000002 686E CITE-NRI 000040 685E CITE-NRI 0004040 685E CITE-NRI	CROSS REFERENCE TABL	PAGE 62
CTF 255 000010 485E CITE-NRI 000002 686E CITE-NRI 000040 685E CITE-NRI 0004040 685E CITE-NRI	CTI 7 000073	AAE
CTF, 8NH 900002		
CTP. 8IS 000200 682E  CITP. 11. 000404 683E  CITP. 12. 000001 687E  D. 18DRT 000131 62E  D. 18DRT 000131 62E  D. 18DRT 000132 63E  D. 18DRT 000133 63E  D. 18DRT 000133 63E  D. 18DRT 000133 63E  D. 18DRT 000134 63E  D. 18DRT 000135 63E  D. 18DRT 000136 63E  D. 18DRT 000137 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000138 63E  D. 18DRT 000008 43E  D. 18DRT 000008 43E  D. 18DRT 000008 43E  D. 18DRT 000008 33E  DEFINION 000008 33E  DEFINION 000008 33E  DEFINION 000008 33E  DEFINION 000008 33E  DEFINION 000008 33E  DEFINION 000008 33E  DEFINION 000008 33E  DEFINION 000008 33E		
CTP. HL D 000020		
C.TF., TAB 000001		83E
D. ARRIT O 40141 6 228L D. CER 949160 6 333. D. COW 940132 6 4014 D. DETS 94013 6 4414 D. DET		
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D. CON		
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D. DTS 040143 6344		
D. LFS 040177	D.DTS 040163	***************************************
N.   MAI   949171   6356		
D. HAO 040174 537L P. HOUNT 949133 526L D. RAH 040240 604L D. RAH 040250 604L D. RAH 0402		
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D. ISBT   040146   6354		
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D. UBC   940216   643L   D. UEC   040130   603L   623   D. UEC   040135   632L   645L   D. UEC   040155   632L   D. UEC   040155   632L   D. UEC   040224   645L   D. USP   040224   645L   D. USP   040224   645L   D. USP   040224   645L   D. USP   040136   627L   D. XOK   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136   040136		
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D. HSG. 040221 644L D. NSF 040224 645L D. XII 040144 62PL D. XIK 040136 62PL D. XOK 040136 62PL D. CLART 000007 43RL DC. CLD 00006 43TL DC. LDD 000011 440L DC. HAX 000012 441L DC. HOW 00010 43PL DC. OPP 000003 43AL DC. OPP 000003 43AL DC. OPP 000004 43SL DC. OPW 000004 43SL DC. REA 000000 431L 1653 1760 1812 1878 DC. REA 000000 431L 1653 1760 1812 1878 DC. REA 000001 332L 1087 1549 1738 1855 DCA 032002 156E DF. ROL 000011 501E DDF. ROL 000001 501E DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 502L 1451 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612 DDF. ROL 000001 335L 1612		
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DC. CLO 000006 437L DC. LDD 000011 440L DC. MAX 000012 441L DC. MAX 000012 441L DC. MAX 000013 437L DC. OPT 000003 434L DC. OPT 000003 434L DC. OPT 000005 436L DC. OPT 000000 435L DC. REA 000000 435L DC. REA 000000 435L DC. REA 000000 435L DC. REB 000001 432L 1087 1549 1738 1855 DCA 032002 156E DDF. BOL 000011 501E DDF. BOL 000011 501E DDF. RED 000000 500L DDF. LAR 000011 502L 1451 DDF. LAR 000014 504L DDF. LAR 000014 504L DDF. USB 000014 504L DDF. USB 000014 504L DEV. DDA 000004 333L DEV. DDA 000004 334L DEV. DDA 000001 334L DEV. DDA 000003 322L		
DC.MAX 000012 441L DC.MGU 000010 439L 1526 DC.DFR 000003 434L DC.DFR 000005 436L DC.DFW 000005 436L DC.REA 000000 431L 1653 1740 1812 1878 DC.REA 000002 433L 1452 DC.REA 000001 432L 1087 1549 1738 1855 DCA 032002 156E DDF.BOL 000011 501E DDF.BOL 000011 501E DDF.RED 000000 500L DDF.LAB 000011 502L 1451 DDF.RET 000012 503L 1612 DDF.RET 000014 504L DEBUG 000001 1E 908 945 978 1043 1259 1441 1471 1512 1598 1748 1805 DEV.DDA 000004 333L DEV.DDA 000004 333L DEV.DDA 000006 324L DEV.DDG 000006 324L DEV.JMP 000003 322L		
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DDF.B0D 000000   500L   DDF.LAB 000011   502L   1451   DDF.RGT 000012   503L   1612   DDF.USR 000014   504L   DDF.USR 000014   504L   DEBUG 000001   1E   908   945   978   1043   1259   1441   1471   1512   1598   1748   1805   1911   2394   DEV.DDA 000004   323L   DEV.DDG 000016   335L   DEV.DDG 000016   334L   DEV.FLG 000006   324L   DEV.JMP 000003   322L		
DDF.LAB 000011   502L   1451     DDF.RGT 000012   503L   1612     DDF.USR 000014   504L     DEBUG   000001   E   908   945   978   1043   1259   1441   1471   1512   1598   1748   1805     1911   2394     DEV.DDA 000004   323L     DEV.DDG 000016   335L   DEV.DDG 000016   334L   DEV.FLG 000006   324L   DEV.FLG 000006   322L   DEV.JMP 000003   DEV.JMP 000003   DEV.JMP 000003   322L   DEV.JMP 000003   DEV.JMP 0000003   DEV.JMP 0000003   DEV.JMP 0000003   DEV.JMP 0000003   DEV.JMP 0000000   DEV.JMP 0000000   DEV.JMP 00000000   DEV.JMP 00000000   DEV.JMP 00000000000   DEV.JMP 00000000   DEV.JMP 00000000   DEV.JMP 00000000000		***************************************
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SECOND HOOS		DI E			XREF VI.1
CROSS REF	EKERCE IM	DLE	• • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	PAGE 63
DEV.MNU O	00011	331L			
DEV. MUM O	00010	330[	1308	• • • • • • • • • • • • • • • • • • • •	
DEV.NAM O		314L	1000		
DEV.RES O		318L	1347	• • • • • • • • • • • •	***************************************
DEV.SPG O		329L	20 17		
DEV. UNT O		332Ľ	1295	•••••	
DEVELEN O		337E	1362		
DEVNAME O		1303	1482	2525L	
DEVTAB O		1294	1305	2528L	
	00376	357E	1675	1841	1863
	00040	202E			
	00002	198E	1224	• • • • • • • • • • • • • • • • • • • •	
DF.DS1 0		199E	1225		
	00010	200E	1226	• • • • • • • • • • • •	***************************************
DF.EMP O	00377	356E	1672		
	00001	192E	1203	1210	1929
	0.0020	201E	1227		
	00010	195E			
DF.ST O	00100	203E			
BF.TO O	00002	193E	• • • • • • • • • • • • • • • • • • • •		
	00001	197E			
	00004	194E			
DF+WR O	00200	204E			
DIF.CNT O		557E			
DIF.LOC O		555E			
DIF.SYS O		554E			
DIF.WP O		556E			
DIR.ALD O		372L			
DIR.CLU O		365L			
DIR.CRD O		371L			
DIR.EXT O		360L			
DIR.FGN O		368L	1682		
DIR,FLG.O		366L			
DIR.LGN O		369L			
DIR.LSI O		370L			
DIR.NAM O		359L 361L			
DIR.VER O		362L	• • • • • • • • • • • • • • • •		
DIRELEN O			700	410	01.4
DIRIDL O		37.4E 363E	<i>3.9.4</i>	<del>9</del> A7	814
DIS-ENL O		386L	1661	1000	
DIS.ENT O		381E		49.47	·····
DIS.LNK O		388L	1634	1447	1869
DIS.SEC O		387L	1664	1852	
		69E	1004	1002	
	00001	70E			
	00002	71E			
	00003	72E	• • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	002641	1052	1059L		
DM02 0	00331′	1066	1078L		
	01017/	1072	1076	1114L	
	00127	951	955L	1097	
DMONMS O	002441	882	949	1042E	
DMOUN O	00114	876	944E	1156	
	00177	190E	1228	1231	
	00001	319E	1350	1353	
DR.PR O	00002	320E	1353		
DREAD O	31256	144E			

		S OVERLAY			XREF V1.1 PAGE 64
r.~	cc.	000000	70.15		
<u>D</u> Ţ.		000002	326 <u>E</u>		
DT.		000004	327E	1561	1564
BT.		000001	<u>325E</u>	<u></u>	
DV.		000000	315E	1343	
DV.		000001	316E	1344	1359
		031253	142E		
		000004	451L		
		000027	470L		
		000017	462L		.,,
		000035	476L	4577	
		000045	484L	1573	
		000046	485L	1454	
		000005	452L	1318	
		000047	486L	1746	
		000001	448L		
		000002	449L		
		000031	472L		
		000026	469L		
<u>EC</u> .		000030	471L		
		000014	459L		
		000011	456L		
		000034	475L		
		000043	482L	1419	
		000013	458L		
		000016	461L		
		000006	453L		
		000020	463L		
		000007	454L	2019	
		000003	450L	853	
		000040	479L		
		000012	457L		
		000037	478L		
		000052	489L		
EC.		000032	473L		
<u>E</u> Ç.		000050	487L	• • • • • • • • • • • • • • • •	
		000021	464L		
<u>EÇ</u> .∢		000051	488L		
		000044	483L	1116	
		000010	455L	<u> <u></u></u>	······· <u>···</u> ······
		000042	481L	1053	1159
<u>E</u> C.		000053	490L		
EC.		000022	465L		
EC.		000036	477L		
EC.		000015	460L		
EC.		000033	474L	988	······································
EC.		000041	480L	768	
······ĒĊ:		000023 000025	466L	1014	
EC.	ME.		468L	1014	
ENL		000024 000212	467L		**************************************
		031344	34E 150F	1170	2525
		031350	150E	• • • • • • • • • • • • • • • • • • •	
		000015	853L		
		<b></b>	32E		
ESC FF		000033 000014			
······································		032133	35E 158E	• • • • • • • • • • • • • • • • • • • •	
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		032205	160E 182E	• • • • • • • • • • • • • • • • • • • •	
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SECOND HD CROSS R				• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		XREF VI	l • 1					***************************************
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FT.BAC FT.DD	000003	185E 399E						• • • • • • • • • • • •						
FT.OR	000002	400E												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
FT.OU	000010	402E	• • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	•••••			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••	• • • • • • • • • • • • • • • • • • • •
FT.OW FT.PIC	000004	401E 183E											• • • • • • • • • • • • • • • • • • • •	
FT.REL	000002	184E												
	0022157	915	1440L	1511	• • • • • • • • • • • • •						• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••	• • • • • • • • • • • • • • • • • • • •
GETLAB. HOS.SPG		1095 497E	1449L	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • •								• • • • • • • • • • • • • • • • • • • •
HOS1	0000141	852L	858											
HOS2	000021	848	857L	,		• • • • • • • • • • • • •	•••••			• • • • • • • • • • • • • • • • • • • •		•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
HOSOVL2		846L 859	870L	872	875	878	881	884						
HOSVECL		857	887E		0/3	0/0	001	004	887					
I.CONFL		702E	703						•••••	• • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
I.CONTY I.CONWI		689E 695E	690		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •					
I.CSLMD	000000	679E												
I.CUSOR ILDEHL		692E 2198	693							,	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••
IMM	002254	718	2260L 952	1470L	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •				
AMMA	0023351	1483	1494L											
IMMB IMMC	002344'	1478 1482	1495L 1487	14041								• • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
IOC.CGN		407L	+	1496L	•••••	• • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • •			
IOC.CSI		408L					• • • • • • • • • • • • •							
IOC.DDA IOC.DES		396L 414L	403	417										***************************************
IOC.DEV	000020	415L	1167	1391	1400	• • • • • • • • • • • • • •		• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	••••••		••••••	• • • • • • • • • • • • • • • • • • • •
IOC.DIL IOC.DIR		417E 419L			• • • • • • • • • • • • • • • • • • • •									
IOC.DRL		411E												
IOC.DTA		413L			••••••		• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	•• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
IOC.FLG IOC.GRT		398L 405L	411	1395	1400							• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
IOC.LGN	000012	409L												
IOC.LNK		395L	1408			• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	•• •••••	•••••
IOC.LSI IOC.SPG		410L 406L	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	. <b></b>				
IOC.SQL		403E												
IOC.UNI IOCCTD		416L 423E	1167	1391								• • • • • • • • • • • • • • • • • • • •	••••••••••	• • • • • • • • • • • • • • • • • • • •
IOCELEN		421E	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			
IP.PAD		55E						• • • • • • • • • • • •						
ISDEHL LAB.DAT		2205 516E	2281L										**************	
LAB.DIS	000003	512L	1532		• • • • • • • • • • • • •	••••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
LAB.GRT LAB.IND		513L 511L	1538			······					• • • • • • • • • • • • • • • • • • • •			
LAB.LAB			524	1489										
LAB.LBL	000074	524E					•••••			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	•• ••••	
LAB.NOD		518E 510L	1521 1470	1523									•• ••••	
LAB.SPG	000007	514L												***************************************
LAB.SYS		517E												
LAB.VER LAB.VLT		521L 520L	1520		• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·						• • • • • • • • • • • • • • • • • • • •	

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	LABEL	027000	1450 164E	1470	1489	1520	. 1523	1532	. 1538	2531E
	. Ц.Б	000012	22E							
		000017	584L							
	M.CDLY	000016	583L		<i></i> .					
	M.CFWA	000012	581L							
		000006								
		000005	578L 582L							
	.M∙GLWA M•COUT	000010	5845 580L	• • • • • • • • • • • • • • • • • • • •	,		• • • • • • • • • • • • • • • • • • • •			
		000003	576L							
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	M.CSLC	000002	575L							
	M.FOX	000303								
	.M.F.AMB		88£							
		000001	574L							
	.M∙SYSM MND	.000000 002365		1511L		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			
	MND,5	002303		1564L						
	MND.6	003102		1566L					• • • • • • • • • •	
		.003111		1573L						
	MOU1	000166		991L						
		000233			1003	1014L		. <b></b>		
		000241		1019L						
• • • • • • • • • • • • • • • • • • • •	. МОЦЗ МОЦА	000242		1020L 922L					• • • • • • • • • • • • • • • • • • • •	
	.MQUNMS				97.7L					
	MOUNT	000060		907E	1174					
	. NL	000012				1.17.0	1.49.6	2066		
	NUL2	000000								
		.000200								
		000360	56E							
• • • • • • • • • • • • • • • • • • • •	.QPDIG OP.SEG		57E 58E	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •			
	.QVL.GQD.									
	OVLIENS			1068	1073					
	OYL, ENT.									
	OVL.FLB		298L	1068						
	. DYL.IN					. <b></b>				
	OVL.NUM		749E 748E	1070						
	OVL.RES. OVL.SIZ			XY7.Y	• • • • • • • • • • • •					
	OVL.UCS									
	DVLO	000000		1068						
	. QYL1	000001				<b></b>				
	PDI	033145		4 = 5 = 1						
	PGT	003115		1597L						
	PGT10. PGT11.	004042 004052		1624	1759L	1772				
	PGT12.	004067		1778L	1809					
	PGT3	003206		1711						
•••••	PGT4	003261	′ 1671L	1710						
	PGT5	003304		1700						
	PGT6	003336		1678	1705L					
	PGT.Z	.003354			<b>17.15</b> L					
	PGT8 .P.GT.9	003365		1726 1725L						
	PGTA	.0033 <u>75</u> 027000		1./∠⊃Ļ 1637	1687	2533E				
				200,						

		OS OVERLA EFERENCE.						XKEF PAGE	V1.1			
												• • • • •
• • • • • • • • • • •	PGTB	.004032(	1702	1741E								
	PGTC	0040751	1770	1783L		•					• • • • • • • • • • • • • • • • • • • •	
· · · · · · · · · · · ·	PGTD	.004077/	1.666	1701	1784L.							
	PGTE	004101	1662	1705	1785L							
		.004035/	1.69.7	1746L								
		0040401	1753L							• • • • • • • • • • • • • • • • • • • •	**** **********************************	• • • • • •
	.PGTF	.004102/	1.786L									
	PGTG	0041037	1609	1691	1716	1788L			*******************************		••••	• • • • • •
	PIC.COD		549Ļ									
	PIC.ID		544L						***************************************			• • • • •
	PIC.LEN		546L									
	PIC.PTR		547L						*******************************			• • • • • •
	.QUQTE		3.QE									
	REL	033177	170E								• • • • • • • • • • • • • • • • • • • •	• • • • •
		.0.33.175	168E									
	RES1	0010601	1144	1155L					• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••	• • • • • •
	.RE\$2	.0.01.077.1	1158	11644								
	RES3	001165′	1160	1174L				• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	••••	• • • • •
	.RE\$A	.0011711	1145	1177L								
	RESB	001176′	1151	1178L								• • • • •
	RESET	.0010251	885	1.14.QE	1146	1152						
	ROMBOOT	030000	596E								••••	• • • • •
	.RUBQUT	.0.00177	24E									
	RUC	033257	174E							• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •
	.S. BAUD	.0.40344		. <b></b>								
	S.BOOTF	041034	779L								• • • • • • • • • • • • • • • • • • • •	
	.S. CAADR	.0.40.333	706L	1148	1229							
	S.CACC		763L	867					• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	SICCIAR	. 0.40.335	707L									
	S.CDB	040343	721L						• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	.SCFWA			1392					• • • • • • • • • • • • • • • • • • • •			
	S.CODE	041007	764L						• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • •
	S.CONFL		70.4L									
	S.CONTY		691L							• • • • • • • • • • • • • • • • • • • •		• • • • •
	.S. CONWI.	. 0.40.33.1										
	S.CSLMD	040326	680L	690	693	696	703				· • • • • • • • • • • • • • • • • • • •	• • • • • •
· · · · · · · · · · · · · · ·	.SCUSOR.	.0.40.330	494L									
	S.DATC	040310	662L							• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	S.RATE	0.40.27.7	66.1L									
	S.DCS	041033	フフフL					• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	SADDDTA	.0.40.36.6	742L									
	S.DDGRP		739L							•••••	••••	• • • • •
	SADDLDA	.0.40.36.Q										
	S.DDLEN	040362	738L							• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	S.DOOPC	0.40.37.0										
	S.DFWA		732L	1293	1338			• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	••••	
	S.DIREA.	941016	77.1L									
	S.DLINK		729L							• • • • • • • • • • • • • • • • • • • •	•••	
	S.FASER	.041013	770L									
		041021	772L							• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •
	S.GRTO	024000	59.2E									
	S.GRT1	025000	593E								•••	
	S.GRT2	026000	594E	2531	2533							
	S.GUP	041027	774L	1298	•••••	• • • • • • • • • • • • • • • • • • • •				•••••		
	S.HIMEM.	.040316	664L									
	S.INT	040343	606L	717				• • • • • • • • • • • • • • • • • • • •				
	S.JUMPS		768L									
	SIMOUNT	041032	776L	1104	1109			• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		• • • • •
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SECOND HDOS								XREF VI							
CROSS REF	ĘŖĘŅĊĘŢ	ABLE					<i>.</i>	PAGE	.eg				<i></i> .		
		7701	10/7												
S.OFWA O		730L	1067			• • • • • • • • • • • • •						• • • • • • • • • • • •	<i></i>		
S.OMAX O		670L 759L													
S+09N 0 S+0VLE 0	041004	756L	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •									
S.OVLE O		752L													
S.OVLS 0		755L													
S.QVSTK.Q		784L													
S.READ C		146E													
S.REWA9		733L													
	041024	773L	,												
S.SCR	041120	822L	1,632	1641	1659	1779	1850	1867	1882	1888			<i>.</i>		
S.SDD C	041010	769L													
S,SOVR C	241146	608Ļ	610												
	)41002	758L													
SS.YSMQ												<i></i>			
	240312	663L													
S.UCSF		753L							· · · · · · · · · · ·						· · · · · · · · · · ·
S.UCSL C	040374	754L													
	040322	668L	659	<i>.</i>		• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	040277	605L 148E													
SB.ORG C		135E								• • • • • • • • • • • • • • • • • • • •			· · · · · · · · · · · · · · · ·		
SB.OVMX.		136E	2554												
	042200	612E													
STACKL		610E													
	040130	602E	1088	1447	1453	1527	1550	1654	1739	1762	1813	1856	1879		
SYSCALL		235E		1.486											
	000011	31E	2391												
	0.33.233	1.72E			<b></b>										
	000100	219E													
UF.RDAS		216E													
UF.ROR C		217E													
UE*RPE(		218 <u>5</u>							• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • •				• • • • • • • •
UF.TBM (		220E	1000	1010	1000	1 207	1700	1440	1909	25271					
)T.MU		1063 346L	1098 1536	1219 1631	1.40.0		1308	1.772		4247.5					
UNT,FLG.		343L	1555	1567											
UNT.GRT (		344L	1083	1607	1734				• • • • • • • • • • • • • •						• • • • • • • • •
UNT.GTS.		345Ļ	1080	. 1541		1731									
UNT.SIZ (		348E													
UNTTAB. (		1078	1299	1534	1605	1729	2529L								
UO.CLK (		81E													
		8ŏ£													
UO.HLT (		78E													
UQ.NER(		79E												· · · · · · · · · · · · · · · · · · ·	
	000174	210E													
	000175	211E 213E											• • • • • • • • • • • • • • • • • • • •		• • • • • • • • •
	000176 000176	213E 214E													
	000175	212E		· · · · · · · · · · · · · · ·											
USERFWA		613E													
	000026	233E													
	0042731	1171	1909L												
	004307	1920L	1941	1944											
EQUM.	0043261	1927L	1939							<i></i>					
WDO4	0043451	1933	1935L												
	9.Q43.72.1	1930	1948L												
XCHGBC (	005301′	2195	2199	2207	2209	2492L									
23354 BYTE	S FREE	•••••													•••••