

```

3 *** NDDVD - ND DEVICE DRIVER.
4 *
5 * J. G. L.
6
7
000.000 8 XTEXT ASCII

10X ** ASCII CHARACTER EQUIVALENCES.
11X
000.015 12X CR EQU 13 CARRIAGE RETURN
000.012 13X LF EQU 10 LINE FEED
000.200 14X NULL EQU 2000 PAD CHARACTER
000.000 15X NUL2 EQU 0
000.007 16X BELL EQU 7 BELL CHARACTER
000.177 17X RUBOUT EQU 1770
000.010 18X BKSP EQU 100 CTL-H
000.026 19X C.SYN EQU 260 SYNC
000.002 20X C.STX EQU 2 STX
000.047 21X QUOTE EQU 470
000.011 22X TAB EQU 110
000.033 23X ESC EQU 330
000.012 24X NL EQU 120 NEW LINE (HDOS SYSTEMS)
000.212 25X ENL EQU NL+2000 NL + END-OF-LINE-FLAG
000.014 26X FF EQU 140 FORM FEED
000.001 27X CTLA EQU 010 CTL-A
000.002 28X CTLB EQU 020 CTL-B
000.003 29X CTLC EQU 030 CTL-C
000.004 30X CTLD EQU 040 CTL-D
000.017 31X CTLO EQU 170 CTL-O
000.020 32X CTLP EQU 200 CTL-P
000.021 33X CTLQ EQU 210 CTL-Q
000.023 34X CTLS EQU 230 CTL-S
000.032 35X CTLZ EQU 320 CTL-Z
000.000 36 XTEXT DDDEF

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```

38X ** DEVICE DRIVER COMMUNICATION FLAGS.
39X *
40X
000.000 41X ORG 0
42X
000.000 43X DC.REA DS 1 READ
000.001 44X DC.WRI DS 1 WRITE
000.002 45X DC.RER DS 1 READ REGARDLESS
000.003 46X DC.OPR DS 1 OPEN FOR READ
000.004 47X DC.OPW DS 1 OPEN FOR WRITE
000.005 48X DC.OPU DS 1 OPEN FOR UPDATE
000.006 49X DC.CLO DS 1 CLOSE
000.007 50X DC.ABT DS 1 ABORT
000.010 51X DC.MOU DS 1 MOUNT DEVICE
000.011 52X DC.LOD DS 1 LOAD DEVICE DRIVER
000.012 53X DC.RDY DS 1 Device Ready /80.04.GC/
000.013 54X DC.MAX DS 1 MAXIMUM ENTRY INDEX
000.014 55 XTEXT HOSDEF

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57X **      HOSDEF - DEFINE HOS PARAMETER.
58X *
59X
60X
000.040    61X VERS    EQU    2*16+0    VERSION 2.0
62X
000.377    63X SYSCALL EQU    3770      SYSCALL INSTRUCTION
64X
65X
000.000    66X          ORG    0
67X
68X *      RESIDENT FUNCTIONS
69X
000.000    70X .EXIT   DS    1          EXIT (MUST BE FIRST)
000.001    71X .SCIN   DS    1          SCIN
000.002    72X .SCOUT  DS    1          SCOUT
000.003    73X .PRINT  DS    1          PRINT
000.004    74X .READ   DS    1          READ
000.005    75X .WRITE  DS    1          WRITE
000.006    76X .CONSL  DS    1          SET/CLEAR CONSOLE OPTIONS
000.007    77X .CLRCO  DS    1          CLEAR CONSOLE BUFFER
000.010    78X .LOADO  DS    1          LOAD AN OVERLAY
000.011    79X .VERS   DS    1          RETURN HDOS VERSION NUMBER
000.012    80X .SYSRES DS    1          PRECEDING FUNCTIONS ARE RESIDENT
81X
82X
83X *      *HDOSOVLO.SYS* FUNCTIONS
84X
000.040    85X          ORG    40A
86X
000.040    87X .LINK   DS    1          LINK (MUST BE FIRST)
000.041    88X .CTLCL  DS    1          CTL-C
000.042    89X .OPENR  DS    1          OPENR
000.043    90X .OPENW  DS    1          OPENW
000.044    91X .OPENU  DS    1          OPENU
000.045    92X .OPENC  DS    1          OPENC
000.046    93X .CLOSE  DS    1          CLOSE
000.047    94X .POSIT  DS    1          POSITION
000.050    95X .DELET  DS    1          DELETE
000.051    96X .RENAM  DS    1          RENAME
000.052    97X .SETTP  DS    1          SETTOP
000.053    98X .DECODE DS    1          NAME DECODE
000.054    99X .NAME   DS    1          GET FILE NAME FROM CHANNEL
000.055    100X .CLEAR DS    1          CLEAR CHAN
000.056    101X .CLEARA DS    1          CLEAR ALL CHANS
000.057    102X .ERROR DS    1          LOOKUP ERROR
000.060    103X .CHFLG DS    1          CHANGE FLAGS
000.061    104X .DISMT DS    1          FLAG SYSTEM DISK DISMOUNTED
000.062    105X .LOADD DS    1          LOAD DEVICE DRIVER
000.063    106X .OPEN  DS    1          Parametrized Open
107X
108X
109X *      *HDOSOVLI.SYS* FUNCTIONS
110X
000.200    111X          ORG    2000
112X

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HOSDEF

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000.200	113X	.MOUNT	DS	1	MOUNT (MUST BE FIRST)
000.201	114X	.DMOUN	DS	1	DISMOUNT
000.202	115X	.MONMS	DS	1	MOUNT/NO MESSAGE
000.203	116X	.DMNMS	DS	1	DISMOUNT/NO MESSAGE
000.204	117X	.RESET	DS	1	RESET = DISMOUNT/MOUNT OF UNIT
000.205	118X	.CLEAN	DS	1	Clean device
000.206	119X	.DAD	DS	1	Dismount All Disks
000.207	120	XTEXT	HOSEQU		/80.08.sc/

122X ** HDOS SYSTEM EQUIVALENCES.

	123X	*			
	124X				
024.000	125X	S.GRT0	EQU	24000A	SYSTEM AREA FOR GRT0
025.000	126X	S.GRT1	EQU	25000A	SYSTEM AREA FOR GRT1
026.000	127X	S.GRT2	EQU	26000A	SYSTEM AREA FOR GRT2
	128X				
030.000	129X	ROMBOOT	EQU	30000A	ROM BOOT ENTRY
	130X				
040.100	131X		ORG	40100A	FREE SPACE FROM PAM-8
	132X				
040.100	133X		DS	8	JUMP TO SYSTEM EXIT
040.110	134X	D.CON	DS	16	DISK CONSTANTS
040.130	135X	SYDD	EQU	*	SYSTEM DISK ENTRY POINT
040.130	136X	D.VEC	DS	24*3	SYSTEM ROM ENTRY VECTORS
040.240	137X	D.RAM	DS	31	SYSTEM ROM WORK AREA
040.277	138X	S.VAL	DS	36	SYSTEM VALUES
040.343	139X	S.INT	DS	115	SYSTEM INTERNAL WORK AREAS
041.126	140X		DS	16	
041.146	141X	S.SOVR	DS	2	STACK OVERFLOW WARNING
041.150	142X		DS	42200A-*	SYSTEM STACK
001.032	143X	STACKL	EQU	*-S.SOVR	STACK SIZE
	144X				
042.200	145X	STACK	EQU	*	LWA+1 SYSTEM STACK
042.200	146X	USERFWA	EQU	*	USER FWA
042.200	147	XTEXT	ECDEF		

149X ** ERROR CODE DEFINITIONS.

	150X				
000.000	151X		ORG	0	
000.000	152X		DS	1	NO ERROR #0
000.001	153X	EC.EOF	DS	1	END OF FILE
000.002	154X	EC.EOM	DS	1	END OF MEDIA
000.003	155X	EC.ILC	DS	1	ILLEGAL SYSCALL CODE
000.004	156X	EC.CNA	DS	1	CHANNEL NOT AVAILABLE
000.005	157X	EC.DNS	DS	1	DEVICE NOT SUITABLE
000.006	158X	EC.IDN	DS	1	ILLEGAL DEVICE NAME
000.007	159X	EC.IFN	DS	1	ILLEGAL FILE NAME
000.010	160X	EC.NRD	DS	1	NO ROOM FOR DEVICE DRIVER
000.011	161X	EC.FND	DS	1	CHANNEL NOT OPEN
000.012	162X	EC.ILR	DS	1	ILLEGAL REQUEST
000.013	163X	EC.FUC	DS	1	FILE USAGE CONFLICT

000.014	164X	EC.FNF	DS	1	FILE NAME NOT FOUND
000.015	165X	EC.UND	DS	1	UNKNOWN DEVICE
000.016	166X	EC.ICN	DS	1	ILLEGAL CHANNEL NUMBER
000.017	167X	EC.DIF	DS	1	DIRECTORY FULL
000.020	168X	EC.IFC	DS	1	ILLEGAL FILE CONTENTS
000.021	169X	EC.NEM	DS	1	NOT ENOUGH MEMORY
000.022	170X	EC.RF	DS	1	READ FAILURE
000.023	171X	EC.WF	DS	1	WRITE FAILURE
000.024	172X	EC.WPV	DS	1	WRITE PROTECTION VIOLATION
000.025	173X	EC.WP	DS	1	DISK WRITE PROTECTED
000.026	174X	EC.FAP	DS	1	FILE ALREADY PRESENT
000.027	175X	EC.DDA	DS	1	DEVICE DRIVER ABORT
000.030	176X	EC.FL	DS	1	FILE LOCKED
000.031	177X	EC.FAO	DS	1	FILE ALREADY OPEN
000.032	178X	EC.IS	DS	1	ILLEGAL SWITCH
000.033	179X	EC.UUN	DS	1	UNKNOWN UNIT NUMBER
000.034	180X	EC.FNR	DS	1	FILE NAME REQUIRED
000.035	181X	EC.DIW	DS	1	DEVICE IS NOT WRITABLE (OR WRITE LOCKED)
000.036	182X	EC.UNA	DS	1	UNIT NOT AVAILABLE
000.037	183X	EC.ILV	DS	1	ILLEGAL VALUE
000.040	184X	EC.ILO	DS	1	ILLEGAL OPTION
000.041	185X	EC.VPM	DS	1	VOLUME PRESENTLY MOUNTED ON DEVICE
000.042	186X	EC.NVM	DS	1	NO VOLUME PRESENTLY MOUNTED
000.043	187X	EC.FOD	DS	1	FILE OPEN ON DEVICE
000.044	188X	EC.NPM	DS	1	NO PROVISIONS MADE FOR REMOUNTING MORE DISKS
000.045	189X	EC.DNI	DS	1	DISK NOT INITIALIZED
000.046	190X	EC.DNR	DS	1	DISK IS NOT READABLE
000.047	191X	EC.DSC	DS	1	DISK STRUCTURE IS CORRUPT
000.050	192X	EC.NCV	DS	1	NOT CORRECT VERSION OF HDOS
000.051	193X	EC.NOS	DS	1	NO OPERATING SYSTEM MOUNTED
000.052	194X	EC.IOI	DS	1	ILLEGAL OVERLAY INDEX
000.053	195X	EC.OTL	DS	1	OVERLAY TOO LARGE
000.054	196	XTEXT	ESVAL		

198X ** S.VAL - SYSTEM VALUE DEFINITIONS.

199X *

THESE VALUES ARE SET AND MAINTAINED BY THE SYSTEM.

200X *

201X *

THE DECK HOSEQU MUST BE MODIFIED WHEN THIS IS MODIFIED.

202X *

203X

204X

040.277

205X

ORG S.VAL

206X

040.277

207X

S.DATE DS 9 SYSTEM DATE (IN ASCII)

040.310

208X

S.DATC DS 2 CODED DATE

040.312

209X

S.TIME DS 4 TIME FROM MIDNIGHT (IN TYCS)

040.316

210X

S.HIMEM DS 2 HARDWARE HIGH MEMORY ADDRESS+1

211X

040.320

212X

S.SYSM DS 2 FWA RESIDENT SYSTEM

213X

040.322

214X

S.USRM DS 2 LWA USER MEMORY

215X

040.324

216X

S.OMAX DS 2 MAX OVERLAY SIZE FOR SYSTEM

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217X
218X
219X ** THE FOLLOWING FIVE CELLS SHOULD BE MODIFIED/READ ONLY VIA THE .CONSL SYSCALL
220X
000.200 221X CSL.ECH EQU 10000000B SUPPRESS ECHO
000.004 222X CSL.RAW EQU 00000100B Raw Mode I/O /80.09.sc/
000.002 223X CSL.WRP EQU 00000010B WRAP LINES AT WIDTH
000.001 224X CSL.CHR EQU 00000001B OPERATE IN CHARACTER MODE
225X
000.000 226X I.CSLMD EQU 0 S.CSLMD IS FIRST BYTE
040.326 227X S.CSLMD DS 1 CONSOLE MODE
228X
000.200 229X CTP.BKS EQU 10000000B TERMINAL PROCESSES BACKSPACES
000.100 230X CTP.FF EQU 01000000B Terminal Processes Form-Feed /80.09.sc/
000.040 231X CTP.MLI EQU 00100000B MAP LOWER CASE TO UPPER ON INPUT
000.020 232X CTP.MLO EQU 00010000B MAP LOWER CASE TO UPPER ON OUTPUT
000.010 233X CTP.2SB EQU 00001000B TERMINAL NEEDS TWO STOP BITS
000.002 234X CTP.BKM EQU 00000010B MAP BKSP (UPON INPUT) TO RUBOUT
000.001 235X CTP.TAB EQU 00000001B TERMINAL SUPPORTS TAB CHARACTERS
236X
000.001 237X I.CONTY EQU 1 S.CONTY IS 2ND BYTE
000.000 238X ERRNZ *-S.CSLMD-I.CONTY
040.327 239X S.CONTY DS 1 CONSOLE TYPE FLAGS
000.002 240X I.CUSOR EQU 2 S.CUSOR IS 3RD BYTE
000.000 241X ERRNZ *-S.CSLMD-I.CUSOR
040.330 242X S.CUSOR DS 1 CURRENT CURSOR POSITION
000.003 243X I.CONWI EQU 3 S.CONWI IS 4TH BYTE
000.000 244X ERRNZ *-S.CSLMD-I.CONWI
040.331 245X S.CONWI DS 1 CONSOLE WIDTH
246X
000.001 247X CO.FLG EQU 00000001B CTL-D FLAG
000.200 248X CS.FLG EQU 10000000B CTL-S FLAG
249X
000.004 250X I.CONFL EQU 4 S.CONFL IS 5TH BYTE
000.000 251X ERRNZ *-S.CSLMD-I.CONFL
040.332 252X S.CONFL DS 1 CONSOLE FLAGS
253X
040.333 254X S.CAADR DS 2 ADDRESS FOR ABORT PROCESSING (>256 IF VALID)
040.335 255X S.CCTAB DS 6 ADDR FOR CTL-A, CTL-B, CTL-C PROCESSING
040.343 256 XTEXT DEVDEF

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258X ** DEVICE TABLE ENTRIES.
259X
000.000 260X ORG 0
261X
000.000 262X DEV.NAM DS 2 DEVICE NAME
000.000 263X DV.EL EQU 00000000B END OF DEVICE LIST FLAG
000.001 264X DV.NU EQU 00000001B DEVICE ENTRY NOT IN USE
265X
000.002 266X DEV.RES DS 1 DRIVER RESIDENCE CODE
000.001 267X DR.IM EQU 00000001B DRIVER IN MEMORY
000.002 268X DR.PR EQU 00000010B DRIVER PERMANENTLY RESIDENT
269X

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DEV

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000.003	270X	DEV.JMP	DS	1	JMP TO PROCESSOR
000.004	271X	DEV.DDA	DS	2	DRIVER ADDRESS
000.006	272X	DEV.FLG	DS	1	FLAG BYTE
000.001	273X	DT.DD	EQU	00000001B	DIRECTORY DEVICE
000.002	274X	DT.CR	EQU	00000010B	CAPABLE OF READ OPERATION
000.004	275X	DT.CW	EQU	00000100B	CAPABLE OF WRITE OPERATION
000.010	276X	DT.RN	EQU	00001000B	CAPABLE OF Random access /80.02.sc/
000.020	277X	DT.CH	EQU	00010000B	Capable of Character mode /80.02.sc/
	278X				
000.007	279X	DEV.MUM	DS	1	MOUNTED UNIT MASK
000.010	280X	DEV.MNU	DS	1	MAXIMUM NUMBER OF UNITS
000.011	281X	DEV.UNT	DS	2	ADDRESS OF UNIT SPECIFIC DATA TABLE
	282X				
000.013	283X	DEV.DVL	DS	2	DRIVER BYTE LENGTH
000.015	284X	DEV.DVG	DS	1	DRIVER ROUTINE GROUP ADDRESS
	285X				
000.016	286X	DEVELEN	EQU	*	DEVICE TABLE ENTRY LENGTH

288X ** UNIT SPECIFIC DEVICE DATA TABLE ENTRIES

	289X				
000.000	290X		ORG	0	
	291X				
000.000	292X	UNT.FLG	DS	1	UNIT SPECIFIC *DEV.FLG*
000.001	293X	UNT.SPG	DS	1	Sectors Per Group /80.04.GC/
000.002	294X	UNT.GRT	DS	2	ADDRESS OF GROUP RESERVATION TABLE (IF DT.DD)
000.004	295X	UNT.GTS	DS	2	GRT SECTOR NUMBER
000.006	296X	UNT.DIS	DS	2	DIRECTORY FIRST SECTOR NUMBER
	297X				
000.010	298X	UNT.SIZ	EQU	*	SIZE OF UNIT SPECIFIC DATA TABLE PER UNIT
000.010	299	XTEXT	FILDEF		

301X ** FILDEF - FILE TYPE DEFINITIONS.

	302X	*			
	303X	*	DB	377Q,FT.XXX	
	304X				
	305X				
000.000	306X	FT.ABS	EQU	0	ABSOLUTE BINARY
000.001	307X	FT.PIC	EQU	1	POSITION INDEPENDANT CODE
000.002	308X	FT.REL	EQU	2	RELOCATABLE CODE
000.003	309X	FT.BAC	EQU	3	COMPILED BASIC CODE
000.010	310	XTEXT	FICDEF		

PICDEF

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312X ** PIC FORMAT EQUIVALENCES.

000.000	313X				
	314X	ORG	0		
	315X				
000.000	316X	PIC.ID	DS	1	377Q = BINARY FILE FLAG
000.001	317X		DS	1	FILE TYPE (FT.PIC)
000.002	318X	PIC.LEN	DS	2	LENGTH OF ENTIRE RECORD
000.004	319X	PIC.PTR	DS	2	INDEX OF START OF PIC TABLE
	320X				
000.006	321X	PIC.COD	DS	0	CODE STARTS HERE
000.006	322	XTEXT	DVDDEF		

324X ** DEVICE DRIVER EQUIVALENCES.

	325X				
000.307	326X	DVD.FLV	EQU	307Q	DEVICE DRIVER FLAG VALUE
	327X				
000.006	328X		ORG	PIC.COD	STARTS AT PIC CODE AREA
	329X				
000.006	330X	DVD.DVD	DS	1	MUST BE DVD.FLV, FLAGS TO HDOS AS DRIVER
000.007	331X	DVD.CAP	DS	1	DEVICE CAPABILITY FLAG
000.010	332X	DVD.MUM	DS	1	MOUNTED UNIT MASK
000.011	333X	DVD.MNU	DS	1	MAXIMUM NUMBER OF UNITS
000.012	334X	DVD.UFL	DS	8	UNIT SUB-CAPABILITY FLAGS FOR UNITS 0-7
000.022	335X	DVD.SET	DS	1	= DVD.FLV IFF DRIVER WILL TAKE SET OPTIONS
000.023	336X	DVD.INP	DS	2	Pointer to Init Code /80.07.sc/
000.025	337X		DS	22	RESERVED, MUST BE 0 /80.07.sc/
000.053	338X	DVD.STE	EQU	*	ENTRY FOR 'SET' INVOCATION
	339X				
002.000	340X	DVD.ENT	EQU	2000A	DRIVER ENTRY POINT (MUST BE MULT OF 256)
	341				
000.053	342	XTEXT	SETCAL		

344X ** SETCAL - FIXED ADDRESS ROUTINES IN SET

	345X	*			
	346X	*			THESE VECTORS ARE FIXED ENTRY POINTS INTO THE
	347X	*			SET PROGRAM TO UTILIZED BY DEVICE DRIVERS IN
	348X	*			PROCESSING SET COMMANDS.
	349X	*			
	350X				
042.201	351X		ORG	USERFWA+1	
	352X				
042.201	353X	\$SNA	DS	3	
	354X				
042.204	355X	\$DCS	DS	3	
	356X				
042.207	357X	\$CNA	DS	3	
	358X				
042.212	359X	\$FST	DS	3	
	360X				
042.215	361X	\$TBLS	DS	3	

SETCAL

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		362X				
042.220		363X \$WTBLS	DS	3		
		364X				
042.223		365X \$LBD	DS	3		
		366X				
042.226		367X \$SQP	DS	3		
		368X				
042.231		369X \$PBF	DS	3		
		370X				
042.234		371X \$PBV	DS	3		
		372X				
042.237		373X	DS	60	RESERVED	
		374				
		375	CODE	PIC		
		376				
000.006 307		377	DB	DVDFLV	DEVICE DRIVER FLAG VALUE	
000.007 006		378	DB	DT.CR+DT.CW	DEVICE OF READ AND WRITE	
000.010 001		379	DB	00000001B	MOUNTED UNIT MASK	
000.011 001		380	DB	1	ONLY 1 UNIT	
000.012 006		381	DB	DT.CR+DT.CW	0: CAPABLE OF READ AND WRITE	
000.013		382	DS	7	1-7: IGNORED	
000.022 307		383	DB	DVDFLV	DEVICE DRIVER FLAG	
000.023 000 000		384	DW	0	No INIT Parameters	/80.09.sc/
		385				
000.025		386	SET	025Q		/80.09.sc/
000.000		387	ERRNZ	*-		/80.09.sc/
000.026		388	ERRMI	DVD.STE-		/80.09.sc/
000.025		389	DS	DVD.STE-	RESERVED AREAS	/80.09.sc/


```

392 *** SET CODE ENTRY POINT
393 *
394 *
395 * ENTRY: (DE) = LINE POINTER
396 * (A) = UNIT NUMBER
397 *
398 * EXIT: (PSW) = 'C' CLEAR IF NO ERROR
399 * = 'C' SET IF ERROR
400 *
401 * USES: ALL
402 *
403
000.053 404 SETNTR EQU *
000.000 405 ERRNZ *-DVD,STE
000.053 247 406 ANA A
000.054 302 103 000 407 JNZ SET1
000.057 102 408 MOV B,D
000.060 113 409 MOV C,E (BC) = PARAMETER LIST ADDRESS
000.061 021 278 000 410 LXI D,PRCTAB (DE) = PROCESSOR TABLE ADDRESS
000.064 041 265 000 411 LXI H,OPTTAB (HL) = OPTION TABLE ADDRESS
000.067 315 228 042 412 CALL $SOF
000.072 330 413 RC THERE WAS AN ERROR
000.073 315 201 042 414 CALL $SNA
000.076 310 415 RZ AT THE END OF THE LINE
000.077 078 040 416 MVI A,EC:ILO
000.101 067 417 STC
000.102 311 418 RET
419
000.103 078 033 420 SET1 MVI A,EC:UUN UNKNOWN UNIT NUMBER
000.105 067 421 STC
000.108 311 422 RET

```

425 *** PROCESSORS

426 *

428 ** HELP - PROCESS HELP OPTION

429 *

430 *

LIST THE VALID OPTIONS ON THE USER CONSOLE.

431 *

432

000.107 315.136.031 433.HELP CALL \$TYPX

000.112 012 012 123 434 DB NL,NL,'Set Options for ND:',NL,NL

000.141 110.105.114 435 DB 'HELP Type this message',NL

000.170 012 436 DB NL

000.171 116.117.124 437 DB 'NOTE: This is the only valid option for the NULL device',NL

000.261 012 212 438 DB NL,ENL

000.263 257 439 XRA A

000.264 311 440 RET

443 *** SET TABLES
444 *
445 *

447 ** OPTAB - OPTION TABLE

448 *

449

000.265 275 000

450 OPTTAB DW OPTTAB END OF THE TABLE

000.267 001

451 DB 1

452

000.270 110 105 114

453 DB 'HEL', 'P'+200Q, HELPI

454

000.275 000

455 OPTTAB DB 0

457 ** PRCTAB - PROCESSOR TABLE

458 *

459

000.276

460 PRCTAB DS 0

461

000.000

462 HELPI EQU *-PRCTAB/2

000.276 107 000

463 DW HELP

000.300

465 SET 300A

000.000

466 ERNZ *-

000.300

467 DS DVD.ENT-

MAIN ENTRY POINT

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```

470 **      MAIN ENTRY POINT
471
002.000      472 NDDVD EQU      *
000.000      473 ERRNZ *-DVD.ENT MUST BE AT THE ENTRY POINT
002.000 315 076 031 474 CALL $TBRA
002.003 020      475 DB NDREAD-* READ
002.004 015      476 DB NDWRITE-* WRITE
002.005 010      477 DB NDABT-* READR
002.006 013      478 DB NDOPE-* OPENR
002.007 012      479 DB NDOPE-* OPENW
002.010 005      480 DB NDABT-* OPENU
002.011 010      481 DB NDNOP-* CLOSE
002.012 007      482 DB NDNOP-* ABORT
002.013 002      483 DB NDABT-* MOUNT
002.014 005      484 DB NDNOP-* LOAD
485
002.015 076 027 486 NDABT MVI A,EC.DDA DEVICE DRIVER ABORT
002.017 067      487 STC
002.020 311      488 RET
489
002.021      490 NDOPE EQU      *
002.021 347      491 NDNOP ANA      A
002.022 311      492 RET      DO NOTHING
```

NDDVD - ND DEVICE DRIVER

HEATH HBASH V1.4 01/20/78

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NDREAD - READ

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495 ** NDREAD - READ

496 *

497

498

002.023

499 NDREAD EQU *

002.023 076 001

500 MVI A,EC.EOF

002.025 067

501

EOF ON ALL READS

002.026 311

502

RET

002.021 505 NDWRITE EQU NDNOP DO NOTHING FOR WRITES

506
002.027 507 XTEXT TBRA

509X ** \$TBRA - BRANCH RELATIVE THROUGH TABLE.

510X *

511X * \$TBRA USES THE SUPPLIED INDEX TO SELECT A BYTE FROM THE

512X * JUMP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE

513X * ADDRESS OF THE BYTE, YIELDING THE PROCESSOR ADDRESS.

514X *

515X * CALL \$TBRA

516X * DB LAB1-* INDEX = 0 FOR LAB1

517X * DB LAB2-* INDEX = 1 FOR LAB2

518X * DB LABN-* INDEX = N-1 FOR LABN

519X *

520X * ENTRY (A) = INDEX

521X * (RET) = TABLE.FWA

522X * EXIT TO COMPUTED ADDRESS

523X * USES F:HL

524X

525X

031.076 526X \$TBRA EQU 31076A IN H17 ROM

002.027 527 XTEXT TYPTX

529X ** \$TYPTX - TYPE TEXT.

530X *

531X * \$TYPTX IS CALLED TO TYPE A BLOCK OF TEXT ON THE SYSTEM CONSOLE.

532X *

533X * IMBEDDED ZERO BYTES INDICATE A CARRIAGE RETURN LINE FEED,

534X * A BYTE WITH THE 2000 BIT SET IS THE LAST BYTE IN THE MESSAGE.

535X *

536X * ENTRY (RET) = TEXT

537X * EXIT TO (RET+LENGTH)

538X * USES A:F

539X

540X

031.136 541X \$TYPTX EQU 31136A IN H17 ROM

542X

031.144 543X \$TYPTX EQU 31144A IN H17 ROM

002.027 122 127 544 DB 'RW' DUMY ADDRESS FOR RELOCATION

002.031 545 DS 32 PATCH AREA

546

547 LON 0

548

002.071 055 000 062 549 END

000 065 000

265 000 276

000 000 000

ASSEMBLY COMPLETE

549 STATEMENTS

0 ERRORS DETECTED

13808 BYTES FREE

\$CNA	042207	357L						
\$DCS	042204	355L						
\$FST	042212	359L						
\$LBD	042223	365L						
\$PBF	042231	369L						
\$PEV	042234	371L						
\$SNA	042201	353L	414					
\$SDP	042226	367L	412					
\$TBL5	042215	361L						
\$TBRA	031076	474	526E					
\$TYPTX	031136	433	541E					
\$TYPTX.	031144	543E						
\$WTBLS	042220	363L						
.	000300	386S	387	388	389	465S	466	467
.CHFLG	000060	103L						
.CLEAN	000205	118L						
.CLEAR	000055	100L						
.CLEARA	000056	101L						
.CLOSE	000046	93L						
.CLACO	000007	77L						
.CONSL	000006	76L						
.CTLG	000041	88L						
.DAD	000206	119L						
.DECODE	000053	98L						
.DELET	000050	95L						
.DISMT	000061	104L						
.DMNMS	000203	116L						
.DMOUN	000201	114L						
.ERROR	000057	102L						
.EXIT	000000	70L						
.LINK	000040	87L						
.LOADD	000062	105L						
.LOADO	000010	78L						
.MONMS	000202	115L						
.MOUNT	000200	113L						
.NAME	000054	99L						
.OPEN	000063	106L						
.OPENC	000045	92L						
.OPENR	000042	89L						
.OPENU	000044	91L						
.OPENW	000043	90L						
.POSIT	000047	94L						
.PRINT	000003	73L						
.READ	000004	74L						
.RENAM	000051	96L						
.RESET	000204	117L						
.SCIN	000001	71L						
.SCOUT	000002	72L						
.SETTP	000052	97L						
.SYSRES	000012	80L						
.VERS	000011	79L						
.WRITE	000005	75L						
BELL	000007	16E						
BKSP	000010	18E						
C.STX	000002	20E						
C.SYN	000026	19E						
CO.FLG	000001	247E						
CR	000015	12E						

CROSS REFERENCE TABLE

CS.FLG	000200	248E
CSL.CHR	000001	224E
CSL.ECH	000200	221E
CSL.RAW	000004	222E
CSL.WRP	000002	223E
CTLA	000001	27E
CTLB	000002	28E
CTLC	000003	29E
CTLD	000004	30E
CTLO	000017	31E
CTLP	000020	32E
CTLQ	000021	33E
CTLS	000023	34E
CTLZ	000032	35E
CTP.2SB	000010	233E
CTP.BKM	000002	234E
CTP.BKS	000200	229E
CTP.FF	000100	230E
CTP.MLI	000040	231E
CTP.MLO	000020	232E
CTP.TAB	000001	235E
D.CON	040110	134L
D.RAM	040240	137L
D.VEC	040130	136L
DC.ABT	000007	50L
DC.CLO	000006	49L
DC.LON	000011	52L
DC.MAX	000013	54L
DC.MOU	000010	51L
DC.OPR	000003	46L
DC.OPU	000005	48L
DC.OPW	000004	47L
DC.RDY	000012	53L
DC.REA	000000	43L
DC.RER	000002	45L
DC.WRI	000001	44L
DEV.DDA	000004	271L
DEV.DVG	000015	284L
DEV.DVL	000013	283L
DEV.FLG	000006	272L
DEV.JMP	000003	270L
DEV.MNU	000010	280L
DEV.MUM	000007	279L
DEV.NAM	000000	262L
DEV.RES	000002	266L
DEV.UNT	000011	281L
DEVELEN	000016	286E
DR.IM	000001	267E
DR.FR	000002	268E
DT.CH	000020	277E
DT.CR	000002	274E
DT.CW	000004	275E
DT.DD	000001	273E
DT.RN	000010	276E
DV.EL	000000	263E
DV.NU	000001	264E
DVD.CAP	000007	331L
DVD.DVD	000006	330L

378	381
378	381

CROSS REFERENCE TABLE

DVD.ENT	002000	340E	467	473
DVD.INP	000023	336L		
DVD.MNU	000011	333L		
DVD.MUM	000010	332L		
DVD.SET	000022	335L		
DVD.STE	000053	338E	388	389 405
DVD.UFL	000012	334L		
DVDFLV	000307	328E	377	383
EC.CNA	000004	156L		
EC.DDA	000027	175L	486	
EC.DIF	000017	167L		
EC.DIW	000035	181L		
EC.DNI	000045	189L		
EC.DNR	000046	190L		
EC.DNS	000005	157L		
EC.DSC	000047	191L		
EC.EOF	000001	153L	500	
EC.EOM	000002	154L		
EC.FAO	000031	177L		
EC.FAP	000026	174L		
EC.FL	000030	176L		
EC.FNF	000014	164L		
EC.FNO	000011	161L		
EC.FNR	000034	180L		
EC.FOD	000043	187L		
EC.FUC	000013	163L		
EC.ICN	000016	166L		
EC.IDN	000006	158L		
EC.IFC	000020	168L		
EC.IFN	000007	159L		
EC.ILC	000003	155L		
EC.ILO	000040	184L	416	
EC.ILR	000012	162L		
EC.ILV	000037	183L		
EC.IOI	000052	194L		
EC.IS	000032	178L		
EC.NCV	000050	192L		
EC.NEM	000021	169L		
EC.NOS	000051	193L		
EC.NPM	000044	188L		
EC.NRD	000010	160L		
EC.NVM	000042	186L		
EC.OTL	000053	195L		
EC.RF	000022	170L		
EC.UNA	000036	182L		
EC.UND	000015	165L		
EC.UUN	000033	179L	420	
EC.VPM	000041	185L		
EC.WF	000023	171L		
EC.WP	000025	173L		
EC.WPV	000024	172L		
ENL	000212	25E	438	
ESC	000033	23E		
FF	000014	28E		
FT.ABS	000000	306E		
FT.BAC	000003	309E		
FT.PIC	000001	307E		
FT.REL	000002	308E		

XREF U1.1

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[illegible]

NDDD - ND DEVICE DRIVER

XREF V1.1

CROSS REFERENCE TABLE

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UNT.SIZ	000010	298E	
UNT.SPG	000001	293L	
USERFWA	042200	146E	351
VERS	000040	61E	

29768 BYTES FREE

