

```

3 *** NDDVD - ND DEVICE DRIVER.
4 *
5 * J.G. LETWIN
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 DDEF
    
```

```

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.MAX DS 1 MAXIMUM ENTRY INDEX
000.013 54 XTEXT HOSDEF
    
```

```

56X **      HOSDEF - DEFINE HOS PARAMETER.
57X *
58X
59X
000.026    60X VERS    EQU    1*16+6      VERSION 1.6
61X
000.377    62X SYSCALL EQU    3770      SYSCALL INSTRUCTION
63X
64X
000.000    65X        ORG    0
66X
67X *      RESIDENT FUNCTIONS
68X
000.000    69X .EXIT   DS    1      EXIT (MUST BE FIRST)
000.001    70X .SCIN   DS    1      SCIN
000.002    71X .SCOUT  DS    1      SCOUT
000.003    72X .PRINT  DS    1      PRINT
000.004    73X .READ   DS    1      READ
000.005    74X .WRITE  DS    1      WRITE
000.006    75X .CONSL  DS    1      SET/CLEAR CONSOLE OPTIONS
000.007    76X .CLRCD  DS    1      CLEAR CONSOLE BUFFER
000.010    77X .LOADD  DS    1      LOAD AN OVERLAY
000.011    78X .VERS   DS    1      RETURN HDOS VERSION NUMBER
000.012    79X .SYSRES DS    1      PRECEDING FUNCTIONS ARE RESIDENT
80X
81X
82X *      *HDOSVLO.SYS* FUNCTIONS
83X
000.040    84X        ORG    40A
85X
000.040    86X .LINK   DS    1      LINK (MUST BE FIRST)
000.041    87X .CTLG   DS    1      CTL-C
000.042    88X .OPENR  DS    1      OPENR
000.043    89X .OPENW  DS    1      OPENW
000.044    90X .OPENU  DS    1      OPENU
000.045    91X .OPENC  DS    1      OPENC
000.046    92X .CLOSE  DS    1      CLOSE
000.047    93X .POSIT  DS    1      POSITION
000.050    94X .DELET  DS    1      DELETE
000.051    95X .RENAM  DS    1      RENAME
000.052    96X .SETTP  DS    1      SETTOP
000.053    97X .DECODE DS    1      NAME DECODE
000.054    98X .NAME   DS    1      GET FILE NAME FROM CHANNEL
000.055    99X .CLEAR  DS    1      CLEAR CHAN
000.056   100X .CLEARA DS    1      CLEAR ALL CHANS
000.057   101X .ERROR  DS    1      LOOKUP ERROR
000.060   102X .CHFLG  DS    1      CHANGE FLAGS
000.061   103X .DISMT  DS    1      FLAG SYSTEM DISK DISMOUNTED
000.062   104X .LOADD  DS    1      LOAD DEVICE DRIVER
105X
106X
107X *      *HDOSVLI.SYS* FUNCTIONS
108X
000.200    109X        ORG    2000
110X
000.200    111X .MOUNT  DS    1      MOUNT (MUST BE FIRST)

```

000.201	112X	.DMOUN	DS	1	DISMOUNT
000.202	113X	.MONMS	DS	1	MOUNT/NO MESSAGE
000.203	114X	.DMNMS	DS	1	DISMOUNT/NO MESSAGE
000.204	115X	.RESET	DS	1	RESET = DISMOUNT/MOUNT OF UNIT
000.205	116	XTXT	HOSEQU		

118X ** HDOS SYSTEM EQUIVALENCES.

	119X	*			
	120X				
024.000	121X	S.GRT0	EQU	24000A	SYSTEM AREA FOR GRT0
025.000	122X	S.GRT1	EQU	25000A	SYSTEM AREA FOR GRT1
026.000	123X	S.GRT2	EQU	26000A	SYSTEM AREA FOR GRT2
	124X				
030.000	125X	ROMBOOT	EQU	30000A	ROM BOOT ENTRY
	126X				
040.100	127X		ORG	40100A	FREE SPACE FROM PAM-8
	128X				
040.100	129X		DS	8	JUMP TO SYSTEM EXIT
040.110	130X	D.CON	DS	16	DISK CONSTANTS
040.130	131X	SYDD	EQU	*	SYSTEM DISK ENTRY POINT
040.130	132X	D.VEC	DS	24*3	SYSTEM ROM ENTRY VECTORS
040.240	133X	D.RAM	DS	31	SYSTEM ROM WORK AREA
040.277	134X	S.VAL	DS	36	SYSTEM VALUES
040.343	135X	S.INT	DS	115	SYSTEM INTERNAL WORK AREAS
041.126	136X		DS	16	
041.146	137X	S.SDVR	DS	2	STACK OVERFLOW WARNING
041.150	138X		DS	42200A-*	SYSTEM STACK
001.032	139X	STACKL	EQU	*-S.SDVR	STACK SIZE
	140X				
042.200	141X	STACK	EQU	*	LWAI1 SYSTEM STACK
042.200	142X	USERFWA	EQU	*	USER FWA
042.200	143	XTXT	ECDEF		

145X ** ERROR CODE DEFINITIONS.

	146X				
000.000	147X		ORG	0	
000.000	148X		DS	1	NO ERROR #0
000.001	149X	EC.EOF	DS	1	END OF FILE
000.002	150X	EC.EOM	DS	1	END OF MEDIA
000.003	151X	EC.ILC	DS	1	ILLEGAL SYSCALL CODE
000.004	152X	EC.CNA	DS	1	CHANNEL NOT AVAILABLE
000.005	153X	EC.DNS	DS	1	DEVICE NOT SUITABLE
000.006	154X	EC.IDN	DS	1	ILLEGAL DEVICE NAME
000.007	155X	EC.IFN	DS	1	ILLEGAL FILE NAME
000.010	156X	EC.NRD	DS	1	NO ROOM FOR DEVICE DRIVER
000.011	157X	EC.FNO	DS	1	CHANNEL NOT OPEN
000.012	158X	EC.ILR	DS	1	ILLEGAL REQUEST
000.013	159X	EC.FUC	DS	1	FILE USAGE CONFLICT
000.014	160X	EC.FNF	DS	1	FILE NAME NOT FOUND
000.015	161X	EC.UND	DS	1	UNKNOWN DEVICE
000.016	162X	EC.ICN	DS	1	ILLEGAL CHANNEL NUMBER

ECDEF

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000.017	163X	EC.DIF	DS	1	DIRECTORY FULL
000.020	164X	EC.IFC	DS	1	ILLEGAL FILE CONTENTS
000.021	165X	EC.NEM	DS	1	NOT ENOUGH MEMORY
000.022	166X	EC.RF	DS	1	READ FAILURE
000.023	167X	EC.WF	DS	1	WRITE FAILURE
000.024	168X	EC.WPV	DS	1	WRITE PROTECTION VIOLATION
000.025	169X	EC.WP	DS	1	DISK WRITE PROTECTED
000.026	170X	EC.FAP	DS	1	FILE ALREADY PRESENT
000.027	171X	EC.BDA	DS	1	DEVICE DRIVER ABORT
000.030	172X	EC.FL	DS	1	FILE LOCKED
000.031	173X	EC.FAO	DS	1	FILE ALREADY OPEN
000.032	174X	EC.IS	DS	1	ILLEGAL SWITCH
000.033	175X	EC.UUN	DS	1	UNKNOWN UNIT NUMBER
000.034	176X	EC.FNR	DS	1	FILE NAME REQUIRED
000.035	177X	EC.DIW	DS	1	DEVICE IS NOT WRITABLE (OR WRITE LOCKED)
000.036	178X	EC.UNA	DS	1	UNIT NOT AVAILABLE
000.037	179X	EC.ILV	DS	1	ILLEGAL VALUE
000.040	180X	EC.ILO	DS	1	ILLEGAL OPTION
000.041	181X	EC.VPM	DS	1	VOLUME PRESENTLY MOUNTED ON DEVICE
000.042	182X	EC.NVM	DS	1	NO VOLUME PRESENTLY MOUNTED
000.043	183X	EC.FOD	DS	1	FILE OPEN ON DEVICE
000.044	184X	EC.NPM	DS	1	NO PROVISIONS MADE FOR REMOUNTING MORE DISKS
000.045	185X	EC.DNI	DS	1	DISK NOT INITIALIZED
000.046	186X	EC.DNR	DS	1	DISK IS NOT READABLE
000.047	187X	EC.DSC	DS	1	DISK STRUCTURE IS CORRUPT
000.050	188X	EC.NCV	DS	1	NOT CORRECT VERSION OF HDOS
000.051	189X	EC.NOS	DS	1	NO OPERATING SYSTEM MOUNTED
000.052	190X	EC.IOI	DS	1	ILLEGAL OVERLAY INDEX
000.053	191X	EC.OTL	DS	1	OVERLAY TOO LARGE
000.054	192	XTEXT	ESVAL		

194X ** S.VAL - SYSTEM VALUE DEFINITIONS.

195X *

196X * THESE VALUES ARE SET AND MAINTAINED BY THE SYSTEM.

197X *

198X * THE DECK HOSEQU MUST BE MODIFIED WHEN THIS IS MODIFIED.

199X

200X

040.277 201X ORG S.VAL

202X

040.277 203X S.DATE DS 9 SYSTEM DATE (IN ASCII)

040.310 204X S.DATC DS 2 CODED DATE

040.312 205X S.TIME DS 4 TIME FROM MIDNIGHT (IN TICS)

040.316 206X S.HIMEM DS 2 HARDWARE HIGH MEMORY ADDRESS+1

207X

040.320 208X S.SYSM DS 2 FWA RESIDENT SYSTEM

209X

040.322 210X S.USRM DS 2 LWA USER MEMORY

211X

040.324 212X S.OMAX DS 2 MAX OVERLAY SIZE FOR SYSTEM

213X

214X

215X ** THE FOLLOWING FIVE CELLS SHOULD BE MODIFIED/READ ONLY VIA THE .CONSL SYSCALL

	216X				
000.200	217X	CSL.ECH	EQU	10000000B	SUPPRESS ECHO
000.002	218X	CSL.WRP	EQU	00000010B	WRAP LINES AT WIDTH
000.001	219X	CSL.CHR	EQU	00000001B	OPERATE IN CHARACTER MODE
	220X				
000.000	221X	I.CSLMD	EQU	0	S.CSLMD IS FIRST BYTE
040.326	222X	S.CSLMD	DS	1	CONSOLE MODE
	223X				
000.200	224X	CTP.BKS	EQU	10000000B	TERMINAL PROCESSES BACKSPACES
000.040	225X	CTP.MLI	EQU	00100000B	MAP LOWER CASE TO UPPER ON INPUT
000.020	226X	CTP.MLO	EQU	00010000B	MAP LOWER CASE TO UPPER ON OUTPUT
000.010	227X	CTP.2SB	EQU	00001000B	TERMINAL NEEDS TWO STOP BITS
000.002	228X	CTP.BKM	EQU	00000010B	MAP BKSP (UPON INPUT) TO RUBOUT
000.001	229X	CTP.TAB	EQU	00000001B	TERMINAL SUPPORTS TAB CHARACTERS
	230X				
000.001	231X	I.CONTY	EQU	1	S.CONTY IS 2ND BYTE
000.000	232X	ERRNZ		*-S.CSLMD-I.CONTY	
040.327	233X	S.CONTY	DS	1	CONSOLE TYPE FLAGS
000.002	234X	I.CUSOR	EQU	2	S.CUSOR IS 3RD BYTE
000.000	235X	ERRNZ		*-S.CSLMD-I.CUSOR	
040.330	236X	S.CUSOR	DS	1	CURRENT CURSOR POSITION
000.003	237X	I.CONWI	EQU	3	S.CONWI IS 4TH BYTE
000.000	238X	ERRNZ		*-S.CSLMD-I.CONWI	
040.331	239X	S.CONWI	DS	1	CONSOLE WIDTH
	240X				
000.001	241X	CD.FLG	EQU	00000001B	CTL-D FLAG
000.200	242X	CS.FLG	EQU	10000000B	CTL-S FLAG
	243X				
000.004	244X	I.CONFL	EQU	4	S.CONFL IS 5TH BYTE
000.000	245X	ERRNZ		*-S.CSLMD-I.CONFL	
040.332	246X	S.CONFL	DS	1	CONSOLE FLAGS
	247X				
040.333	248X	S.CAADR	DS	2	ADDRESS FOR ABORT PROCESSING (>256 IF VALID)
040.335	249X	S.CCTAB	DS	6	ADDR FOR CTL-A, CTL-B, CTL-C PROCESSING
040.343	250	XTEXT	DEVDEF		
	252X	**		DEVICE TABLE ENTRIES.	
	253X				
000.000	254X	ORG	DS	0	
	255X				
000.000	256X	DEV.NAM	DS	2	DEVICE NAME
000.000	257X	DV.EL	EQU	00000000B	END OF DEVICE LIST FLAG
000.001	258X	DV.NU	EQU	00000001B	DEVICE ENTRY NOT IN USE
	259X				
000.002	260X	DEV.RES	DS	1	DRIVER RESIDENSE CODE
000.001	261X	DR.IM	EQU	00000001B	DRIVER IN MEMORY
000.002	262X	DR.FR	EQU	00000010B	DRIVER PERMINANTLY RESIDENT
	263X				
000.003	264X	DEV.JMP	DS	1	JMP TO PROCESSOR
000.004	265X	DEV.DDA	DS	2	DRIVER ADDRESS
000.006	266X	DEV.FLG	DS	1	FLAG BYTE
000.001	267X	DT.DD	EQU	00000001B	DIRECTORY DEVICE
000.002	268X	DT.CR	EQU	00000010B	CAPABLE OF READ OPERATION

DEV

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000.004	269X	DT.CW	EQU	00000100B	CAPABLE OF WRITE OPERATION
	270X				
000.007	271X	DEV.SPG	DS	1	SECTORS PER GROUP THIS DEVICE
000.010	272X	DEV.MUM	DS	1	MOUNTED UNIT MASK
000.011	273X	DEV.MNU	DS	1	MAXIMUM NUMBER OF UNITS
000.012	274X	DEV.UNT	DS	2	ADDRESS OF UNIT SPECIFIC DATA TABLE
	275X				
000.014	276X	DEV.DVL	DS	2	DRIVER BYTE LENGTH
000.016	277X	DEV.DVG	DS	1	DRIVER ROUTINE GROUP ADDRESS
	278X				
000.017	279X	DEVELEN	EQU	*	DEVICE TABLE ENTRY LENGTH

281X ** UNIT SPECIFIC DEVICE DATA TABLE ENTRIES

	282X				
000.000	283X		ORG	0	
	284X				
000.000	285X	UNT.FLG	DS	1	UNIT SPECIFIC *DEV.FLG*
000.001	286X	UNT.GRT	DS	2	ADDRESS OF GROUP RESERVATION TABLE (IF DT.DD)
000.003	287X	UNT.GTS	DS	2	GRT SECTOR NUMBER
000.005	288X	UNT.DIS	DS	2	DIRECTORY FIRST SECTOR NUMBER
	289X				
000.007	290X	UNT.SIZ	EQU	*	SIZE OF UNIT SPECIFIC DATA TABLE PER UNIT
000.007	291		XTEXT	FILDEF	

293X ** FILDEF - FILE TYPE DEFINITIONS.

	294X	*			
	295X	*	DB	377Q,FT.XXX	
	296X				
	297X				
000.000	298X	FT.ABS	EQU	0	ABSOLUTE BINARY
000.001	299X	FT.PIC	EQU	1	POSITION INDEPENDANT CODE
000.002	300X	FT.REL	EQU	2	RELOCATABLE CODE
000.003	301X	FT.BAC	EQU	3	COMPILED BASIC CODE
000.007	302		XTEXT	PICDEF	

304X ** PIC FORMAT EQUIVALENCES.

	305X				
000.000	306X		ORG	0	
	307X				
000.000	308X	PIC.ID	DS	1	377Q = BINARY FILE FLAG
000.001	309X		DS	1	FILE TYPE (FT.PIC)
000.002	310X	PIC.LEN	DS	2	LENGTH OF ENTIRE RECORD
000.004	311X	PIC.PTR	DS	2	INDEX OF START OF PIC TABLE
	312X				
000.006	313X	PIC.COD	DS	0	CODE STARTS HERE
000.006	314		XTEXT	DVDDEF	

DVDDEF

```

316X **      DEVICE DRIVER EQUIVALENCES.
317X
000.307     318X DVDFLV  EQU      307Q      DEVICE DRIVER FLAG VALUE
319X
000.006     320X          ORG      PIC.COD    STARTS AT PIC CODE AREA
321X
000.006     322X DVD.DVD  DS        1          MUST BE DVDFLV, FLAGS TO HDOS AS DRIVER
000.007     323X DVD.CAP  DS        1          DEVICE CAPABILITY FLAG
000.010     324X DVD.MUM  DS        1          MOUNTED UNIT MASK
000.011     325X DVD.MNU  DS        1          MAXIMUM NUMBER OF UNITS
000.012     326X DVD.UFL  DS        8          UNIT SUB-CAPABILITY FLAGS FOR UNITS 0-7
000.022     327X DVD.SET  DS        1          = DVDFLV IFF DRIVER WILL TAKE SET OPTIONS
000.023     328X          DS        24         RESERVED, MUST BE 0
000.053     329X DVD.STE  EQU      *          ENTRY FOR SET INVOCATION
330X
002.000     331X DVD.ENT  EQU      2000A      DRIVER ENTRY POINT (MUST BE MULT. OF 256)
332
000.053     333          XTEXT  SETCAL

```



```

335X **      SETCAL - FIXED ADDRESS ROUTINES IN SET
336X *
337X *      THESE VECTORS ARE FIXED ENTRY POINTS INTO THE
338X *      SET PROGRAM TO UTILIZED BY DEVICE DRIVERS IN
339X *      PROCESSING SET COMMANDS.
340X *
341X
042.201     342X          ORG      USERFWA+1
343X
042.201     344X $SNA   DS        3
345X
042.204     346X $DCS   DS        3
347X
042.207     348X $CNA   DS        3
349X
042.212     350X $FST   DS        3
351X
042.215     352X $TBLS  DS        3
353X
042.220     354X $WTBLS DS        3
355X
042.223     356X $LBD   DS        3
357X
042.226     358X $SOP   DS        3
359X
042.231     360X $PBF   DS        3
361X
042.234     362X $PBV   DS        3
363X
042.237     364X          DS        60      RESERVED
365
366          CODE   PIC
367
000.006 307 368          DB      DVDFLV      DEVICE DRIVER FLAG VALUE

```

SETCAL

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000.007	006	369	DB	DT,CR+DT,CW	DEVICE OF READ AND WRITE
000.010	001	370	DB	00000001R	MOUNTED UNIT MASK
000.011	001	371	DB	1	ONLY 1 UNIT
000.012	006	372	DB	DT,CR+DT,CW	0: CAPABLE OF READ AND WRITE
000.013		373	DS	7	1-7: IGNORED
000.022	307	374	DB	DVDFLV	DEVICE DRIVER FLAG
		375			
000.000		376	ERRNZ	*-230	
000.023		377	DS	DVD,STE-230	RESERVED AREAS


```

380 ***      SET CODE ENTRY POINT
381 *
382 *
383 *      ENTRY: (DE) = LINE POINTER
384 *            (A)  = UNIT NUMBER
385 *
386 *      EXIT: (PSW) = 'C' CLEAR IF NO ERROR
387 *            = 'C' SET  IF  ERROR
388 *
389 *      USES: ALL
390 *
391
000.053      392 SETNTR EQU      *
000.000      393          ERRNZ *-DVD.STE
000.053 247  394          ANA      A
000.054 302 103 000 395          JNZ      SET1
000.057 102  396          MOV      B,D
000.060 113  397          MOV      C,E      (BC) = PARAMETER LIST ADDRESS
000.061 021 276 000 398          LXI      D,PRCTAB  (DE) = PROCESSOR TABLE ADDRESS
000.064 041 265 000 399          LXI      H,OPTTAB  (HL) = OPTION TABLE ADDRESS
000.067 315 226 042 400          CALL   $SOP
000.072 330  401          RC          THERE WAS AN ERROR
000.073 315 201 042 402          CALL   $SNA
000.076 310  403          RZ          AT THE END OF THE LINE
000.077 076 040  404          MVI      A,EC.ILO
000.101 067  405          STC
000.102 311  406          RET
407
000.103 076 033  408 SET1  MVI      A,EC.UUN  UNKNOWN UNIT NUMBER
000.105 067  409          STC
000.106 311  410          RET

```

413 *** PROCESSORS
414 *

416 ** HELP - PROCESS HELP OPTION
417 *
418 * LIST THE VALID OPTIONS ON THE USER CONSOLE
419 *

420
000.107 315 136 031 421 HELP CALL \$TYPTX
000.112 012 012 123 422 DB NL,NL,'Set Options for ND:',NL,NL
000.141 110 105 114 423 DB 'HELP Type this message',NL
000.170 012 424 DB NL
000.171 116 117 124 425 DB 'NOTE! This is the only valid option for the NULL device',NL
000.261 012 212 426 DB NL,ENL
000.263 257 427 XRA A
000.264 311 428 RET

431 *** SET TABLES
432 *
433 *

435 ** OPTAB - OPTION TABLE

436 *
437

000.265 275 000 438 OPTTAB DW OPTTAB END OF THE TABLE

000.267 001 439 DB 1

440

000.270 110 105 114 441 DB 'HEL', 'P'+2000, HELPI

442

000.275 000 443 OPTTAB DB 0

445 ** PRCTAB - PROCESSOR TABLE

446 *
447

000.276 448 PRCTAB DS 0

449

000.000 450 HELPI EQU *-PRCTAB/2

000.276 107 000 451 DW HELP

000.300 453 SET 300A

000.000 454 ERRNZ *-.

000.300 455 DS DVD.ENT-

```

458 **      MAIN ENTRY POINT
459
002.000      460 NDDVD EQU *
000.000      461 ERRNZ *-DVD.ENT MUST BE AT THE ENTRY POINT
002.000 315 076 031 462 CALL $TBRA
002.003 020      463 DB NDREAD-* READ
002.004 015      464 DB NDWRITE-* WRITE
002.005 010      465 DB NDABT-* READR
002.006 013      466 DB NDOPE-* OPENR
002.007 012      467 DB NDOPE-* OPENW
002.010 005      468 DB NDABT-* OPENU
002.011 010      469 DB NDNOP-* CLOSE
002.012 007      470 DB NDNOP-* ABORT
002.013 002      471 DB NDABT-* MOUNT
002.014 005      472 DB NDNOP-* LOAD
473
002.015 076 027 474 NDABT MVI A,EC.DDA DEVICE DRIVER ABORT
002.017 067      475 STC
002.020 311      476 RET
477
002.021      478 NDOPE EQU *
002.021 247      479 NDNOP ANA A
002.022 311      480 RET DO NOTHING
  
```

		483	**	NDREAD - READ	
		484	*		
		485			
		486			
002.023		487	NDREAD	EQU	*
002.023	076 001	488		MVI	A,EC.EOF
002.025	067	489		STC	EOF ON ALL READS
002.026	311	490		RET	

002.021 493 NDWRITE EQU NDNOP DO NOTHING FOR WRITES
 494
 002.027 495 XTEXT TBRA

497X ** \$TBRA - BRANCH RELATIVE THROUGH TABLE.
 498X *
 499X * \$TBRA USES THE SUPPLIED INDEX TO SELECT A BYTE FROM THE
 500X * JUMP TABLE; THE CONTENTS OF THIS BYTE ARE ADDED TO THE
 501X * ADDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.
 502X *
 503X * CALL \$TBRA
 504X * DB LAB1-* INDEX = 0 FOR LAB1
 505X * DB LAB2-* INDEX = 1 FOR LAB2
 506X * DB LABN-* INDEX = N-1 FOR LABN
 507X *
 508X * ENTRY (A) = INDEX
 509X * (RET) = TABLE FWA
 510X * EXIT TO COMPUTED ADDRESS
 511X * USES F,H,L
 512X
 513X

031.076 514X \$TBRA EQU 31076A IN H17 ROM
 002.027 515 XTEXT TYPTX

517X ** \$TYPTX - TYPE TEXT.
 518X *
 519X * \$TYPTX IS CALLED TO TYPE A BLOCK OF TEXT ON THE SYSTEM CONSOLE.
 520X *
 521X * IMBEDDED ZERO BYTES INDICATE A CARRIAGE RETURN LINE FEED,
 522X * A BYTE WITH THE 2000 BIT SET IS THE LAST BYTE IN THE MESSAGE.
 523X *
 524X * ENTRY (RET) = TEXT
 525X * EXIT TO (RET+LENGTH)
 526X * USES A,F
 527X
 528X

031.136 529X \$TYPTX EQU 31136A IN H17 ROM
 530X
 031.144 531X \$TYPTX EQU 31144A IN H17 ROM
 002.027 122 127 532 DB 'RW' DUMY ADDRESS FOR RELOCATION
 002.031 533 DS 32 PATCH AREA
 534
 535 LON G
 536
 002.071 055 000 062 537 END
 000 065 000
 265 000 276
 000 000 000

ASSEMBLY COMPLETE
 537 STATEMENTS
 0 ERRORS DETECTED
 13886 BYTES FREE

NDDVD - ND DEVICE DRIVER
CROSS REFERENCE TABLE

XREF V1.1
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\$CNA	042207	348L		
\$DCS	042204	346L		
\$FST	042212	350L		
\$LBD	042223	356L		
\$PBF	042231	360L		
\$PBV	042234	362L		
\$SNA	042201	344L	402	
\$SOP	042226	358L	400	
\$TBL	042215	352L		
\$TBRA	031076	462	514E	
\$TYPTX	031136	421	529E	
\$TYPTX.	031144	531E		
\$WTBLS	042220	354L		
.	000300	453S	454	455
.CHFLG	000060	102L		
.CLEAR	000055	99L		
.CLEARA	000056	100L		
.CLOSE	000046	92L		
.CLRCO	000007	76L		
.CONSL	000006	75L		
.CTL	000041	87L		
.DECODE	000053	97L		
.DELET	000050	94L		
.DISMT	000061	103L		
.DMNMS	000203	114L		
.DMOUN	000201	112L		
.ERROR	000057	101L		
.EXIT	000000	69L		
.LINK	000040	86L		
.LOADD	000062	104L		
.LOADO	000010	77L		
.MONMS	000202	113L		
.MOUNT	000200	111L		
.NAME	000054	98L		
.OPENC	000045	91L		
.OPENR	000042	88L		
.OPENU	000044	90L		
.OPENW	000043	89L		
.POSIT	000047	93L		
.PRINT	000003	72L		
.READ	000004	73L		
.RENAM	000051	95L		
.RESET	000204	115L		
.SCIN	000001	70L		
.SCOUT	000002	71L		
.SETTP	000052	96L		
.SYSRES	000012	79L		
.VERS	000011	78L		
.WRITE	000005	74L		
BELL	000007	16E		
BKSP	000010	18E		
C.STX	000002	20E		
C.SYN	000026	19E		
CO.FLG	000001	241E		
CR	000015	12E		
CS.FLG	000200	242E		
CSL.CHR	000001	219E		
CSL.ECH	000200	217E		

NDDVD - ND DEVICE DRIVER

CROSS REFERENCE TABLE

XREF V1.1

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CSL.WRP	000002	218E		
CTLA	000001	27E		
CTLB	000002	28E		
CTLC	000003	29E		
CTLD	000004	30E		
CTLO	000017	31E		
CTLP	000020	32E		
CTLR	000021	33E		
CTLS	000023	34E		
CTLZ	000032	35E		
CTP.2SB	000010	227E		
CTP.BKM	000002	228E		
CTP.BKS	000200	224E		
CTP.MLI	000040	225E		
CTP.MLO	000020	226E		
CTP.TAB	000001	229E		
D.CON	040110	130L		
D.RAM	040240	133L		
D.VEC	040130	132L		
DC.ABT	000007	50L		
DC.CLO	000006	49L		
DC.LOD	000011	52L		
DC.MAX	000012	53L		
DC.MOU	000010	51L		
DC.OPR	000003	46L		
DC.OPU	000005	48L		
DC.OPW	000004	47L		
DC.REA	000000	43L		
DC.RER	000002	45L		
DC.WRI	000001	44L		
DEV.DDA	000004	265L		
DEV.DVG	000016	277L		
DEV.DVL	000014	276L		
DEV.FLG	000006	266L		
DEV.JMP	000003	264L		
DEV.MNU	000011	273L		
DEV.MUM	000010	272L		
DEV.NAM	000000	256L		
DEV.RES	000002	260L		
DEV.SPG	000007	271L		
DEV.UNT	000012	274L		
DEVELEN	000017	279E		
DR.IM	000001	261E		
DR.PR	000002	262E		
DT.CR	000002	268E	369	372
DT.CW	000004	269E	369	372
DT.DD	000001	267E		
DV.EL	000000	257E		
DV.NU	000001	258E		
DVD.CAP	000007	323L		
DVD.DVD	000006	322L		
DVD.ENT	002000	331E	455	461
DVD.MNU	000011	325L		
DVD.MUM	000010	324L		
DVD.SET	000022	327L		
DVD.STE	000053	329E	377	393
DVD.UFL	000012	326L		
DVD.FLV	000307	318E	368	374

..... NDDVD -- NO DEVICE DRIVER
 CROSS REFERENCE TABLE

XREF 01.1
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EC.CNA	000004	152L	
EC.DDA	000027	171L	474
EC.DIF	000017	163L	
EC.DIW	000035	177L	
EC.DNI	000045	185L	
EC.DNR	000046	186L	
EC.DNS	000005	153L	
EC.DSC	000047	187L	
EC.EOF	000001	149L	488
EC.EDM	000002	150L	
EC.FAO	000031	173L	
EC.FAP	000026	170L	
EC.FL	000030	172L	
EC.FNF	000014	140L	
EC.FNO	000011	157L	
EC.FNR	000034	176L	
EC.FOD	000043	183L	
EC.FUC	000013	159L	
EC.ICN	000016	162L	
EC.IDN	000006	154L	
EC.IFC	000020	164L	
EC.IFN	000007	155L	
EC.ILC	000003	151L	
EC.ILO	000040	180L	404
EC.ILR	000012	158L	
EC.ILV	000037	179L	
EC.IDI	000052	190L	
EC.IS	000032	174L	
EC.NCV	000050	188L	
EC.NEM	000021	165L	
EC.NOS	000051	189L	
EC.NPM	000044	184L	
EC.NRD	000010	156L	
EC.NVM	000042	182L	
EC.OTL	000053	191L	
EC.RF	000022	168L	
EC.UNA	000036	178L	
EC.UND	000015	161L	
EC.UUN	000033	175L	408
EC.VPM	000041	181L	
EC.WF	000023	167L	
EC.WP	000025	169L	
EC.WPV	000024	168L	
ENL	000212	25E	426
ESC	000033	23E	
FF	000014	26E	
FT.ABS	000000	298E	
FT.BAC	000003	301E	
FT.PIC	000001	299E	
FT.REL	000002	300E	
HELP	000107	421L	451
HELPI	000000	441	450E
I.CONFL	000004	244E	245
I.CONTY	000001	231E	232
I.CONWI	000003	237E	238
I.CSLMD	000000	221E	
I.CUSOR	000002	234E	235
LF	000012	13E	

CROSS REFERENCE TABLE

NDABT	002015'	465	468	471	474L						
NDDDV	002000'	460E									
NDINOP	002021'	469	470	472	479L	493					
NDOPE	002021'	466	467	478E							
NDREAD	002023'	463	487E								
NDWRITE	002021'	464	493E								
NL	000012	24E	25	422	422	422	422	423	424	425	426
NUL2	000000	15E									
NULL	000200	14E									
OPTTAB	000265'	399	438L								
OPTTABE	000275'	438	443L								
PIC.COD	000006	313L	320								
PIC.ID	000000	308L									
PIC.LEN	000002	310L									
PIC.PTR	000004	311L									
PRCTAB	000276'	398	448L	450							
QUOTE	000047	21E									
ROMBOOT	030000	125E									
RUBOUT	000177	17E									
S.CAADR	040333	248L									
S.CCTAB	040335	249L									
S.CONFL	040332	246L									
S.CONTY	040327	233L									
S.CONWI	040331	239L									
S.CSLMD	040326	222L	232	235	238	245					
S.CUSOR	040330	236L									
S.DATC	040310	204L									
S.DATE	040277	203L									
S.GRT0	024000	121E									
S.GRT1	025000	122E									
S.GRT2	026000	123E									
S.HIMEM	040316	206L									
S.INT	040343	135L									
S.OHAX	040324	212L									
S.SOVR	041146	137L	139								
S.SYSM	040320	208L									
S.TIME	040312	205L									
S.USRM	040322	210L									
S.VAL	040277	134L	201								
SET1	000103'	395	408L								
SETNTR	000053'	392E									
STACK	042200	141E									
STACKL	001032	139E									
SYDD	040130	131E									
SYSCALL	000377	62E									
TAB	000011	22E									
UNT.DIS	000005	288L									
UNT.FLG	000000	285L									
UNT.GRT	000001	286L									
UNT.GTS	000003	287L									
UNT.SIZ	000007	290E									
USERFWA	042200	142E	342								
VERS	000026	60E									

29858 BYTES FREE