

```

                                TITLE 'SYSGEN - SYSTEM GENERATION PROGRAM 8/79'
                                SYSTEM GENERATION PROGRAM, VERSION FOR MDS
0014 =    ; VERS EQU 20 ;X.X
                                ;
                                ; COPYRIGHT (C) DIGITAL RESEARCH
                                ; 1976, 1977, 1978, 1979
                                ;
001A =    NSECTS EQU 26 ;NO. OF SECTORS PER TRACK
0002 =    NTRKS EQU 2 ;NO. OF OPERATING SYSTEM TRACKS
0004 =    NDISKS EQU 4 ;NUMBER OF DISK DRIVES
0080 =    SECSIZ EQU 128 ;SIZE OF EACH SECTOR
0007 =    LOG2SEC EQU 7 ;LOG 2 SECSIZ
0001 =    SKEW EQU 1 ;SECTOR SKEW FACTOR
                                ;
005C =    FCB EQU 005CH ;DEFAULT FCB LOCATION
007C =    FCBCR EQU FCB+32 ;CURRENT RECORD LOCATION
0100 =    TPA EQU 0100H ;TRANSIENT PROGRAM AREA
0900 =    LOADP EQU 900H ;LOAD POINT FOR SYSTEM DURING LOAD/STORE
0005 =    BDOS EQU 5H ;DOS ENTRY POINT
0000 =    BOOT EQU 0 ;JMP TO 'BOOT' TO REBOOT SYSTEM
0001 =    CONI EQU 1 ;CONSOLE INPUT FUNCTION
0002 =    CONO EQU 2 ;CONSOLE OUTPUT FUNCTION
000E =    SELF EQU 14 ;SELECT DISK
000F =    OPENF EQU 15 ;DISK OPEN FUNCTION
0014 =    DREADF EQU 20 ;DISK READ FUNCTION
                                ;
000A =    MAXTRY EQU 10 ;MAXIMUM NUMBER OF RETRIES ON EACH READ/WRITE
000D =    CR EQU 0DH ;CARRIAGE RETURN
000A =    LF EQU 0AH ;LINE FEED
0010 =    STACKSIZE EQU 16 ;SIZE OF LOCAL STACK
                                ;
0001 =    WBOOT EQU 1 ;ADDRESS OF WARM BOOT (OTHER PATCH ENTRY
                                ; POINTS ARE COMPUTED RELATIVE TO WBOOT)
0018 =    SELDSK EQU 24 ;WBOOT+24 FOR DISK SELECT
001B =    SETTRK EQU 27 ;WBOOT+27 FOR SET TRACK FUNCTION
001E =    SETSEC EQU 30 ;WBOOT+30 FOR SET SECTOR FUNCTION
0021 =    SETDMA EQU 33 ;WBOOT+33 FOR SET DMA ADDRESS
0024 =    READF EQU 36 ;WBOOT+36 FOR READ FUNCTION
0027 =    WRITF EQU 39 ;WBOOT+39 FOR WRITE FUNCTION
                                ;
0100 ORG TPA ;TRANSIENT PROGRAM AREA
0100 C37802 JMP START
0103 434F505952 DB 'COPYRIGHT (C) 1978, DIGITAL RESEARCH'
                                ;
                                ; TRANSLATE TABLE - SECTOR NUMBERS ARE TRANSLATED
                                ; HERE TO DECREASE THE SYSGEN TIME FOR MISSED SECTORS
                                ; WHEN SLOW CONTROLLERS ARE INVOLVED. TRANSLATION TAKES
                                ; PLACE ACCORDING TO THE "SKEW" FACTOR SET ABOVE.
                                ;
0128 02 OST: DB NTRKS ;OPERATING SYSTEM TRACKS
0129 1A SPT: DB NSECTS ;SECTORS PER TRACK (CAN BE PATCHED) CP/M v.2.2
                                ;
                                ; TRAN:
                                ; ;BASE OF TRANSLATE TABLE
0001 # TRELT SET 1 ;FIRST/NEXT TRAN ELEMENT
0001 # TRBASE SET 1 ;BASE FOR WRAPAROUND
                                ;
                                ; ONCE FOR EACH SECTOR ON A TRACK
                                ; DB NSECTS
                                ; DB TRELT ;GENERATE FIRST/NEXT SECTOR

```

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```

TREL  SET    TREL+SKWE
      IF      TREL GT NSECTS
TRBASE SET    TRBASE+1
TREL  SET    TRBASE
      ENDIF
      ENDM

```

```

012A+01 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
012B+02 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
012C+03 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
012D+04 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
012E+05 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
012F+06 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0130+07 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0131+08 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0132+09 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0133+0A DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0134+0B DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0135+0C DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0136+0D DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0137+0E DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0138+0F DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0139+10 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
013A+11 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
013B+12 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
013C+13 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
013D+14 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
013E+15 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
013F+16 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0140+17 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0141+18 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0142+19 DB      TREL  ;GENERATE FIRST/NEXT SECTOR
0143+1A DB      TREL  ;GENERATE FIRST/NEXT SECTOR

```

```

;
;

```

NOW LEAVE SPACE FOR EXTENSIONS TO TRANSLATE TABLE

```

IF      NSECTS LT 64
REPT    64-NSECTS
DB      0
ENDM

```

```

0144+00 DB      0
0145+00 DB      0
0146+00 DB      0
0147+00 DB      0
0148+00 DB      0
0149+00 DB      0
014A+00 DB      0
014B+00 DB      0
014C+00 DB      0
014D+00 DB      0
014E+00 DB      0
014F+00 DB      0
0150+00 DB      0
0151+00 DB      0
0152+00 DB      0
0153+00 DB      0
0154+00 DB      0
0155+00 DB      0

```

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```

018F 3F0A      MVI    A,LF
0191 CD8301    CALL   PUTCHAR
0194 C9        RET

;
CRMSG: ;PRINT MESSAGE ADDRESSED BY H,L TIL ZERO
;WITH LEADING CRLF
0195 E5CD8A01E1 PUSH H! CALL CRLF! POP H ;DROP THRU TO OUTMSGO
OUTMSG:
019A 7EB7C8    MOV A,M! ORA A! RZ
; MESSAGE NOT YET COMPLETED
019D E5CD8301E1 PUSH H! CALL PUTCHAR! POP H! INX H
01A3 C39A01    JMP     OUTMSG

;
SEL: ;
; SELECT DISK GIVEN BY REGISTER A
01A6 4F2A010011 MOV C,A! LHLD WBOOT! LXI D,SELDSK! DAD D! PCHL

;
TRK: ;SET UP TRACK
01AF 2A0100    LHLD    WBOOT ;ADDRESS OF BOOT ENTRY
01B2 111B00    LXI     D,SETTRK ;OFFSET FOR SETTRK ENTRY
01B5 19        DAD     D
01B6 E9        PCHL    ;GONE TO SETTRK

;
SEC: ;SET UP SECTOR NUMBER
01B7 2A0100    LHLD    WBOOT
01BA 111E00    LXI     D,SETSEC
01BD 19        DAD     D
01BE E9        PCHL

;
DMA: ;SET DMA ADDRESS TO VALUE OF B,C
01BF 2A0100    LHLD    WBOOT
01C2 112100    LXI     D,SETDMA
01C5 19        DAD     D
01C6 E9        PCHL

;
READ: ;PERFORM READ OPERATION
01C7 2A0100    LHLD    WBOOT
01CA 112400    LXI     D,READF
01CD 19        DAD     D
01CE E9        PCHL

;
WRITE: ;PERFORM WRITE OPERATION
01CF 2A0100    LHLD    WBOOT
01D2 112700    LXI     D,WRITEF
01D5 19        DAD     D
01D6 E9        PCHL

;
DREAD: ;DISK READ FUNCTION
01D7 0E14      MVI     C,DREADF
01D9 C30500    JMP     BDOS

;
OPEN: ;FILE OPEN FUNCTION
01DC 0E0FC30500 MVI C,OPENF ! JMP BDOS

;
GETPUT:
; GET OR PUT CP/M (RW=0 FOR READ, 1 FOR WRITE)

```

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```

; DISK IS ALREADY SELECTED
;
01E1 210009 LXI H,LOADP ;LOAD POINT IN RAM FOR CP/M DURING SYSGEN
01E4 22AA04 SHLD DMADDR
;
; CLEAR TRACK TO 00
01E7 3EFF MVI A,-1 ;START WITH TRACK EQUAL -1
01E9 32A704 STA TRACK
;
RWTRK: ;READ OR WRITE NEXT TRACK
01EC 21A704 LXI H,TRACK
01EF 34 INR M ;TRACK = TRACK + 1
01F0 3A2801 LDA OST ;NUMBER OF OPERATING SYSTEM TRACKS
01F3 BE CMP M ;= TRACK NUMBER ?
01F4 CA7702 JZ ENDRW ;END OF READ OR WRITE
;
; OTHERWISE NOTDONE, GO TO NEXT TRACK
01F7 4E MOV C,M ;TRACK NUMBER
01F8 CDAF01 CALL TRK ;TO SET TRACK
01FB 3EFF MVI A,-1 ;COUNTS 0, 1, 2, . . . 25
01FD 32A804 STA SECTOR ;SECTOR INCREMENTED BEFORE READ OR WRITE
;
RWSEC: ;READ OR WRITE SECTOR
0200 3A2901 LDA SPT ;SECTORS PER TRACK
0203 21A804 LXI H,SECTOR
0206 34 INR M ;TO NEXT SECTOR
0207 BE CMP M ;A=26 AND M=0 1 2...25 (USUALLY)
0208 CA6602 JZ ENDTRK ;
;
; READ OR WRITE SECTOR TO OR FROM CURRENT DMA ADDR
020B 21A804 LXI H,SECTOR
020E 5E MOV E,M ;SECTOR NUMBER
020F 1600 MVI D,0 ;TO DE
0211 212A01 LXI H,TRAN
0214 46 MOV B,M ;TRAN(0) IN B
0215 19 DAD D ;SECTOR TRANSLATED
0216 4E MOV C,M ;VALUE TO C READY FOR SELECT
0217 C5 PUSH B ;SAVE TRAN(0),TRAN(SECTOR)
0218 CDB701 CALL SEC ;SET UP SECTOR NUMBER
021B C1 POP B ;RECALL TRAN(0),TRAN(SECTOR)
021C 79 MOV A,C ;TRAN(SECTOR)
021D 90 SUB B ;-TRAN(0)
021E CD6A01 CALL MULTSEC ;*SECTOR SIZE
0221 EB XCHG ;TO DE
0222 2AAA04 LHLD DMADDR ;BASE DMA ADDRESS FOR THIS TRACK
0225 19 DAD D ;+(TRAN(SECTOR)-TRAN(0))*SECSIZ
0226 44 MOV B,H
0227 4D MOV C,L ;TO BC FOR SEC CALL
0228 CDBF01 CALL DMA ;DMA ADDRESS SET FROM B,C
; DMA ADDRESS SET, CLEAR RETRY COUNT
022B AF XRA A
022C 32AC04 STA RETRY ;SET TO ZERO RETRIES
;
TRYSEC: ;TRY TO READ OR WRITE CURRENT SECTOR
022F 3AAC04 LDA RETRY
0232 FE0A CPI MAXTRY ;TOO MANY RETRIES?

```

```

0234 DA4B02      JC      TRYOK
;
;      PAST MAXTRIES, MESSAGE AND IGNORE
0237 211804      LXI      H,ERRMSG
023A CD9A01      CALL     OUTMSG
023D CD7501      CALL     GETCHAR
0240 FE0D        CPI      CR
0242 C26303      JNZ      REBOOT
;
;      TYPED A CR, OK TO IGNORE
0245 CD8A01      CALL     CRLF
0248 C30002      JMP      RWSEC
;
TRYOK:
;      OK TO TRY READ OR WRITE
024B 3C          INR      A
024C 32AC04      STA      RETRY      ;RETRY=RETRY+1
024F 3AA904      LDA      RW          ;READ OR WRITE?
0252 B7          ORA      A
0253 CA5C02      JZ       TRYREAD
;
;      MUST BE WRITE
0256 CDCF01      CALL     WRITE
0259 C35F02      JMP      CHKRW      ;CHECK FOR ERROR RETURNS
TRYREAD:
CALL     READ
CHKRW:
ORA      A
JZ       RWSEC      ;ZERO FLAG IF R/W OK
;
;      ERROR, RETRY OPERATION
0263 C32F02      JMP      TRYSEC
;
;      END OF TRACK
ENDTRK:
LDA      SPT          ;SECTORS PER TRACK
CALL     MULTSEC      ;*SECSIZ
XCHG     ;TO DE
LHLD     DMADDR        ;BASE DMA FOR THIS TRACK
DAD      D              ;+SPT*SECSIZ
SHLD     DMADDR        ;READY FOR NEXT TRACK
JMP      RWTRK         ;FOR ANOTHER TRACK
;
ENDRW:      ;END OF READ OR WRITE, RETURN TO CALLER
RET
;
;
START:
;
0278 31CD04      LXI      SP,STACK      ;SET LOCAL STACK POINTER
027B 217503      LXI      H,SIGNON
027E CD9A01      CALL     OUTMSG
;
;      CHECK FOR DEFAULT FILE LOAD INSTEAD OF GET
0281 3A5D00      LDA      FCB+1      ;BLANK IF NO FILE

```

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```

0284 FE20      CPI
0286 CAD602    JZ      GETSYS ;SKIP TO GET SYSTEM MESSAGE IF BLANK
0289 115C00    LXI      D,FCB ;TRY TO OPEN IT
028C CDDC01    CALL     OPEN  ;
028F 3C        INR      A      ;255 BECOMES 00
0290 C29C02    JNZ      RDOK   ;OK TO READ IF NOT 255

```

```

;
; FILE NOT PRESENT, ERROR AND REBOOT
;

```

```

0293 21780"    LXI      H,NOFILE
0296 CD9501    CALL     CRMSG
0299 C36303    JMP      REBOOT

```

```

;
; FILE PRESENT
; READ TO LOAD POINT
;

```

RDOK:

```

029C AF        XRA      A
029D 327C00    STA      FCBCR ;CURRENT RECORD = 0

```

```

;
; PRE-READ AREA FROM TPA TO LOADP
;

```

```

02A0 0E10      MVI      C,(LOADP-TPA)/SECSIZ
; PRE-READ FILE

```

PRERD:

```

02A2 C5        PUSH     B      ;SAVE COUNT
02A3 115C00    LXI      D,FCB  ;INPUT FILE CONTROL COUNT
02A6 CDD701    CALL     DREAD  ;ASSUME SET TO DEFAULT BUFFER
02A9 C1        POP      B      ;RESTORE COUNT
02AA B7        ORA      A
02AB C2CD02    JNZ      BADRD  ;CANNOT ENCOUNTER END-OF FILE
02AE 0D        DCR      C      ;COUNT DOWN
02AF C2A202    JNZ      PRERD  ;FOR ANOTHER SECTOR

```

```

;
; SECTORS SKIPPED AT BEGINNING OF FILE
;

```

```

02B2 210009    LXI      H,LOADP

```

RDINP:

```

02B5 E5        PUSH     H
02B6 44        MOV      B,H
02B7 4D        MOV      C,L    ;READY FOR DMA
02B8 CDBF01    CALL     DMA    ;DMA ADDRESS SET
02BB 115C00    LXI      D,FCB  ;READY FOR READ
02BE CDD701    CALL     DREAD  ;
02C1 E1        POP      H      ;RECALL DMA ADDRESS
02C2 B7        ORA      A      ;00 IF READ OK
02C3 C21C03    JNZ      PUTSYS ;ASSUME EOF IF NOT.

```

```

; MORE TO READ, CONTINUE

```

```

02C6 118000    LXI      D,SECSIZ
02C9 19        DAD      D      ;HL IS NEW LOAD ADDRESS
02CA C3B502    JMP      RDINP

```

```

;
; BADRD: ;EOF ENCOUNTERED IN INPUT FILE

```

```

02CD 218F04    LXI      H,BADFILE
02D0 CD9501    CALL     CRMSG

```

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```

02D3 C36303      JMP      REBOOT

;
;
GETSYS:
02D6 218403      LXI      H,ASKGET      ;GET SYSTEM?
02D9 CD9501      CALL     CRMSG
02DC CD7501      CALL     GETCHAR
02DF FE0D        CPI      CR
02E1 CA1C03      JZ       PUTSYS ;SKIP IF CR ONLY

;
02E4 D641        SUI      'A'          ;NORMALIZE DRIVE NUMBER
02E6 FE04        CPI      NDISKS       ;VALID DRIVE?
02E8 DAF102      JC       GETC         ;SKIP TO GETC IF SO

;
;      INVALID DRIVE NUMBER
02EB CD6E03      CALL     BADDISK
02EE C3D602      JMP      GETSYS      ;TO TRY AGAIN

;
GETC:
;      SELECT DISK GIVEN BY REGISTER A
02F1 C641        ADI      'A'
02F3 32B403      STA      GDISK       ;TO SET MESSAGE
02F6 D641        SUI      'A'
02F8 CDA601      CALL     SEL          ;TO SELECT THE DRIVE
;      GETSYS, SET RW TO READ AND GET THE SYSTEM
02FB CD8A01      CALL     CRLF
02FE 21AA03      LXI      H,GETMSG
0301 CD9A01      CALL     OUTMSG
0304 CD7501      CALL     GETCHAR
0307 FE0D        CPI      CR
0309 C26303      JNZ      REBOOT
030C CD8A01      CALL     CRLF

;
030F AF          XRA      A
0310 32A904      STA      RW
0313 CDE101      CALL     GETPUT
0316 213F04      LXI      H,DONE
0319 CD9A01      CALL     OUTMSG

;
;      PUT SYSTEM
PUTSYS:
031C 21C803      LXI      H,ASKPUT
031F CD9501      CALL     CRMSG
0322 CD7501      CALL     GETCHAR
0325 FE0D        CPI      CR
0327 CA6303      JZ       REBOOT
032A D641        SUI      'A'
032C FE04        CPI      NDISKS
032E DA3703      JC       PUTC

;
;      INVALID DRIVE NAME
0331 CD6E03      CALL     BADDISK
0334 C31C03      JMP      PUTSYS ;TO TRY AGAIN

;
PUTC:
;      SET DISK FROM REGISTER C

```

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```

0337 C641      ADI      'A'
0339 320404    STA      PDISK ;MESSAGE SET
033C D641      SUI      'A'
033E CDA601    CALL     SEL ;SELECT DEST DRIVE
;             PUT SYSTEM, SET RW TO WRITE
0341 21F503    LXI      H,PUTMSG
0344 CD9501    CALL     CRMSG
0347 CD7501    CALL     GETCHAR
034A FE0D      CPI      CR
034C C26303    JNZ      REBOOT
034F CD8A01    CALL     CRLF
;
0352 21A904    LXI      H,RW
0355 3601      MVI      M,1
0357 CDE101    CALL     GETPUT ;TO PUT SYSTEM BACK ON DISKETTE
035A 213F04    LXI      H,DONE
035D CD9A01    CALL     OUTMSG
0360 C31C03    JMP      PUTSYS ;FOR ANOTHER PUT OPERATION

```

; REBOOT:

```

0363 3E00      MVI      A,0
0365 CDA601    CALL     SEL
0368 CD8A01    CALL     CRLF
036B C30000    JMP      BOOT

```

; BADDISK:

```

;BAD DISK NAME
036E 215104    LXI      H,QDISK
0371 CD9501    CALL     CRMSG
0374 C9        RET

```

;

;

;

;

;

DATA AREAS
MESSAGES

```

0375 5359534745SIGNON: DB 'SYSGEN VER '
0380 322E30    DB 'VERS/10+'0','.',VERS MOD 10+'0'
0383 00        DB 0
0384 534F555243ASKGET: DB 'SOURCE DRIVE NAME (OR RETURN TO SKIP)',0
03AA 534F555243GETMSG: DB 'SOURCE ON '
03B4          GDISK: DS 1 ;FILLED IN AT GET FUNCTION
03B5 2C20544845 DB ', THEN TYPE RETURN',0
03C8 4445535449ASKPUT: DB 'DESTINATION DRIVE NAME (OR RETURN TO REBOOT)',0
03F5 4445535449PUTMSG: DB 'DESTINATION ON '
0404          PDISK: DS 1 ;FILLED IN AT PUT FUNCTION
0405 2C20544845 DB ', THEN TYPE RETURN',0
0418 5045524D41ERRMSG: DB 'PERMANENT ERROR, TYPE RETURN TO IGNORE',0
043F 46554E4354DONE: DB 'FUNCTION COMPLETE',0
0451 494E56414CQDISK: DB 'INVALID DRIVE NAME (USE A, B, C, OR D)',0
0478 4E4F20534FNOFILE: DB 'NO SOURCE FILE ON DISK',0
; BADFILE:
048F 534F555243 DB 'SOURCE FILE INCOMPLETE',0

```

;

;

VARIABLES

```

04A6          SDISK: DS 1 ;SELECTED DISK FOR CURRENT OPERATION
04A7          TRACK: DS 1 ;CURRENT TRACK
04A8          SECTOR: DS 1 ;CURRENT SECTOR

```

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CP/M MACRO ASSEM 2.0 #010

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04A9	RW:	DS	1	;READ IF 0, WRITE IF 1
04AA	DMADDR:	DS	2	;CURRENT DMA ADDRESS
04AC	RETRY:	DS	1	;NUMBER OF TRIES ON THIS SECTOR
04AD		DS		STACKSIZE*2
	STACK:			
B04CD		END		

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0384 ASKGET	03C8 ASKPUT	036E BADDISK	048F BADFILE	02CD BADRD
0005 BDOS	0000 BOOT	025F CHKRW	0001 CONI	0002 CONO
000D CR	018A CRLF	0195 CRMSG	01BF DMA	04AA DMADDR
043F DONE	0014 DREADF	01D7 DREAD	0277 ENDRW	0266 ENDTRK
0418 ERRMSG	005C FCB	007C FCBCR	03B4 GDISK	02F1 GETC
0175 GETCHAR	03AA GETMSG	01E1 GETPUT	02D6 GETSYS	000A LF
0900 LOADP	0007 LOG2SEC	000A MAXTRY	016A MULTSEC	0004 NDISKS
0478 NOFILE	001A NSECTS	0002 NTRKS	01DC OPEN	000F OPENF
0128 OST	019A OUTMSG	0404 PDISK	02A2 PRERD	0183 PUTCHAR
0337 PUTC	03F5 PUTMSG	031C PUTSYS	0451 QDISK	02B5 RDINP
029C RDOK	0024 READF	01C7 READ	0363 REBOOT	04AC RETRY
04A9 RW	0200 RWSEC	01EC RWTRK	04A6 SDISK	01B7 SEC
0080 SECSIZ	04A8 SECTOR	0018 SELDSK	000E SELF	01A6 SEL
0021 SETDMA	001E SETSEC	001B SETTRK	0375 SIGNON	0001 SKEW
0129 SPT	04CD STACK	0010 STACKSIZE	0278 START	0100 TPA
04A7 TRACK	012A TRAN	01AF TRK	024B TRYOK	025C TRYRE'D
022F TRYSEC	0014 VERS	0001 WBOOT	01CF WRITE	0027 WRITE

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