

!A

\*\*\* End of Pass 1

\*\*\* End of Pass 2

```
0800      1          ttl "Insta-Disk DATALOAD10, DATALOAD10.L"
0800      2      ;
0800      3      ;
0800      4      ; DATALOAD10.L
0800      5      ;
0800      6      ; 2024 February 14
0800      7      ;
0800      8      ;
0800      9      ; This softawre is based on the work of Egan Ford.
0800     10      ;
0800     11      ;
0800     12      ; DOS 4.5, Build 06
0800     13      ;
0800     14      ; 2024 February 14
0800     15      ;
0800     16      ;
0800     17      ; Start of Source Code: 0x4000
0800     18      ; Start of Symbol List: 0x7800
0800     19      ;
0800     20      ;
0800     21      ; Copyright (c) 2024 February 14 by
0800     22      ; Walland Philip Vrbancic Jr.
0800     23      ;
0800     24      ; 6223 East Peabody Street
0800     25      ; Long Beach, California 90808
0800     26      ; United States of America
0800     27      ;
0800     28      ; All Rights Reserved
0800     29      ;
0800     30      ; This software is the confidential and
0800     31      ; proprietary intellectual property of
0800     32      ; Walland Philip Vrbancic Jr.
0800     33      ;
0800     34      ;
0000     35      DATAPTR    epz $00
0002     36      ENDPTR    epz $02
0004     37      CHKSUM    epz $04
0008     38      SRCPTR    epz $08
000A     39      DSTPTR    epz $0A
000F     40      PAGEBYTE epz $0F
0800     41      ;
0800     42               enz
0800     43      ;
0000     44      ZERO      equ $00
00FF     45      NEGONE    equ $FF
0800     46      ;
008D     47      RETURN    equ $8D
0800     48      ;
0100     49      PAGESIZE equ $100
0800     50      ;
04FB     51      XMODE     equ $4FB
0800     52      ;
0810     53      DISKLOAD equ $810
0800     54      ;
2000     55      DISKADR    equ $2000
0600     56      DISKLEN    equ $600
0800     57      ;
0200     58      INFLLEN    equ $200
0800     59      ;
1A00     60      DOSLEN1    equ $1A00
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```

0E00          61  DOSLEN2  equ  $E00
0200          62  DOSLEN3  equ  $200
2A00          63  DOSLEN   equ  DOSLEN1+DOSLEN2+DOSLEN3
0800          64  ;
B000          65  DATALOAD equ  $B000
B200          66  DISKCOPY equ  $B200
B800          67  INFLATE  equ  $B800
0800          68  ;
D000          69  DOSADR1  equ  $D000
D000          70  DOSADR2  equ  $D000
BE00          71  DOSADR3  equ  $BE00
0800          72  ;
BFF6          73  MNGUSER  equ  $BFF6
BFF8          74  INITDOS  equ  $BFF8
0800          75  ;
C00C          76  VID80OFF equ  $C00C
C00E          77  ALTCHOFF equ  $C00E
0800          78  ;
C010          79  CONNECT  equ  $C010
0800          80  ;
C060          81  TAPEIN   equ  $C060
0800          82  ;
C082          83  ROM2WP   equ  $C082
C083          84  RAM2WE   equ  $C083
C08B          85  RAM1WE   equ  $C08B
0800          86  ;
F941          87  PRNTAX   equ  $F941
FB2F          88  INIT     equ  $FB2F
FDDA          89  PRBYTE   equ  $FDDA
FDED          90  COUT     equ  $FDED
FE84          91  SETNORM  equ  $FE84
FE89          92  SETKBD   equ  $FE89
FE93          93  SETVID   equ  $FE93
0800          94  ;
FF69          95  MONITOR  equ  $FF69
0800          96  ;
0800          97  ;
0810          98              org  DISKLOAD
0810          99              obj  DISKLOAD
0810         100              usr
0810         101  ;
0810         102  ;
0810         103  ; Take control of the keyboard and video and set up for a
0810         104  ; normal display.
0810         105  ;
0810 A2 FF     106              ldx  #NEGONE
0812 9A        107              txs
0813          108  ;
0813 8E FB 04  109              stx  XMODE
0816 8E 0C C0  110              stx  VID80OFF
0819 8E 0E C0  111              stx  ALTCHOFF
081C          112  ;
081C 20 84 FE  113              jsr  SETNORM
081F 20 2F FB  114              jsr  INIT
0822 20 93 FE  115              jsr  SETVID
0825 20 89 FE  116              jsr  SETKBD
0828          117  ;
0828          118  ;
0828          119  ; Print TEXT1, copy DATALOAD10 to DATALOAD at 0xB000,
0828          120  ; and call DATALOAD as a subroutine. Up to 0x3200 bytes
0828          121  ; are read and transferred to 0x2000. DISKCOPY is found

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0828      122 ; at 0x2000 and its 0x600 bytes are copied to 0xB200.  If
0828      123 ; CMPLOAD is not ZERO, INFLATE is found next and its 0x200
0828      124 ; bytes are copied to 0xB800.  If DOSLOAD is not ZERO,
0828      125 ; DOS 4.5.06H is found next and its 0x2A00 bytes are copied
0828      126 ; to the Language Card, DOS is initialized, and the Page
0828      127 ; 0x03 Vectors are created.  A running checksum is
0828      128 ; calculated in this version of DATALOAD10.
0828      129 ;
0828 A2 03      130          ldx #3
082A      131 ;
082A BD 2F 0A  132 ^1      lda LOADTIME,X
082D 9D 14 09  133          sta TEXTMOD,X
0830      134 ;
0830 CA      135          dex
0831 10 F7      136          bpl <1
0833      137 ;
0833 A0 00      138          ldy #TEXT1-TEXTS
0835 20 EE 08  139          jsr PRNTTEXT
0838      140 ;
0838      141 ;
0838      142 ; Install DATALOAD at 0xB000 and read up to 0x3200 bytes.
0838      143 ;
0838 A2 00      144          ldx #ZERO
083A      145 ;
083A BD 23 09  146 ^2      lda DATACODE,X
083D 9D 00 B0  147          sta DATALOAD,X
0840      148 ;
0840 E8      149          inx
0841 D0 F7      150          bne <2
0843      151 ;
0843 A9 01      152          lda /CODELEN
0845 F0 0B      153          beq >4
0847      154 ;
0847 BD 23 0A  155 ^3      lda DATACODE+PAGESIZE,X
084A 9D 00 B1  156          sta DATALOAD+PAGESIZE,X
084D      157 ;
084D E8      158          inx
084E      159 ;
084E E0 0C      160          cpx #CODELEN
0850 D0 F5      161          bne <3
0852      162 ;
0852 A0 00      163 ^4      ldy #DISKADR
0854 A9 20      164          lda /DISKADR
0856      165 ;
0856 84 00      166          sty DATAPTR
0858 85 01      167          sta DATAPTR+1
085A      168 ;
085A 84 08      169          sty SRCPTR
085C 85 09      170          sta SRCPTR+1
085E      171 ;
085E 84 0A      172          sty DSTPTR
0860      173 ;
0860 18      174          clc
0861      175 ;
0861 69 06      176          adc /DISKLEN
0863      177 ;
0863 AE 33 0A  178          ldx CMPLOAD
0866 F0 02      179          beq >5
0868      180 ;
0868 69 02      181          adc /INFLLEN
086A      182 ;

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086A AE 34 0A    183  ^5      ldx DOSLOAD
086D F0 02      184      beq >6
086F           185      ;
086F 69 2A      186      adc /DOSLEN
0871           187      ;
0871 C8         188  ^6      iny                ; modified EOF handler
0872           189      ;
0872 84 02      190      sty ENDPTR
0874 85 03      191      sta ENDPTR+1
0876           192      ;
0876 20 00 B0   193      jsr DATALOAD
0879           194      ;
0879           195      ;
0879           196      ; Move DISKCOPY to 0xB200.
0879           197      ;
0879 A0 00      198      ldy #ZERO
087B           199      ;
087B A9 B2      200      lda /DISKCOPY
087D A2 06      201      ldx /DISKLEN
087F           202      ;
087F 20 D7 08   203      jsr COPYPGS
0882           204      ;
0882           205      ;
0882           206      ; Move INFLATE to 0xB800 if CMPLOAD is not ZERO.
0882           207      ;
0882 AD 33 0A   208      lda CMPLOAD
0885 F0 07      209      beq >7
0887           210      ;
0887 A9 B8      211      lda /INFLATE
0889 A2 02      212      ldx /INFLLEN
088B           213      ;
088B 20 D7 08   214      jsr COPYPGS
088E           215      ;
088E           216      ;
088E           217      ; Move DOS 4.5.06H into the Language Card if DOSLOAD is not
088E           218      ; ZERO.
088E           219      ;
088E AD 34 0A   220  ^7      lda DOSLOAD
0891 F0 33      221      beq >8
0893           222      ;
0893 2C 83 C0   223      bit RAM2WE
0896 2C 83 C0   224      bit RAM2WE
0899           225      ;
0899 A9 D0      226      lda /DOSADR1
089B A2 1A      227      ldx /DOSLEN1
089D           228      ;
089D 20 D7 08   229      jsr COPYPGS
08A0           230      ;
08A0 2C 8B C0   231      bit RAM1WE
08A3 2C 8B C0   232      bit RAM1WE
08A6           233      ;
08A6 A9 D0      234      lda /DOSADR2
08A8 A2 0E      235      ldx /DOSLEN2
08AA           236      ;
08AA 20 D7 08   237      jsr COPYPGS
08AD           238      ;
08AD 2C 82 C0   239      bit ROM2WP
08B0           240      ;
08B0 A9 BE      241      lda /DOSADR3
08B2 A2 02      242      ldx /DOSLEN3
08B4           243      ;

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08B4 20 D7 08      244      jsr COPYPGS
08B7              245      ;
08B7              246      ;
08B7              247      ; Setup MNGUSR to return to RTNUSER after DOS 4.5.06H has
08B7              248      ; fully initialized and has created the PAGE3 Vectors.
08B7              249      ;
08B7 38           250      sec
08B8              251      ;
08B8 A0 C2        252      ldy #RTNUSER
08BA A9 08        253      lda /RTNUSER
08BC              254      ;
08BC 20 E8 08     255      jsr SETUSER
08BF              256      ;
08BF 6C F8 BF     257      jmp (INITDOS)
08C2              258      ;
08C2              259      ;
08C2              260      ; DOS 4.5.06H has initialized and the Page 0x03 Vectors are
08C2              261      ; now available for the RWTS routines. Return MNGUSR to
08C2              262      ; its default state and enter DISKCOPY.
08C2              263      ;
08C2 18           264      RTNUSER clc
08C3              265      ;
08C3 20 E8 08     266      jsr SETUSER
08C6              267      ;
08C6              268      ;
08C6              269      ; If SCNTFLAG is not ZERO, connect DOS to the disk device
08C6              270      ; located at the SLOTCX address.
08C6              271      ;
08C6 AD 35 0A     272      ^8      lda SCNTFLAG
08C9 F0 09        273      beq >9
08CB              274      ;
08CB AD 36 0A     275      lda SLOTCX
08CE 8D ED 08     276      sta SLOTCNT+2
08D1              277      ;
08D1 20 EB 08     278      jsr SLOTCNT
08D4              279      ;
08D4              280      ;
08D4              281      ; Ready to begin DISKCOPY.
08D4              282      ;
08D4 4C 00 B2     283      ^9      jmp DISKCOPY
08D7              284      ;
08D7              285      ;
08D7              286      ; SRCPTR needs to be initialized once. All routines are
08D7              287      ; copied sequentially to where they need to reside.
08D7              288      ;
08D7 85 0B        289      COPYPGS sta DSTPTR+1
08D9              290      ;
08D9 B1 08        291      ^1      lda (SRCPTR),Y
08DB 91 0A        292      sta (DSTPTR),Y
08DD              293      ;
08DD C8           294      iny
08DE D0 F9        295      bne <1
08E0              296      ;
08E0 E6 09        297      inc SRCPTR+1
08E2 E6 0B        298      inc DSTPTR+1
08E4              299      ;
08E4 CA           300      dex
08E5 D0 F2        301      bne <1
08E7              302      ;
08E7 60           303      rts
08E8              304      ;

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08E8      305 ;
08E8 6C F6 BF 306 SETUSER jmp (MNGUSER)
08EB      307 ;
08EB 4C 10 C0 308 SLOTCNT jmp CONNECT
08EE      309 ;
08EE      310 ;
08EE B9 FA 08 311 PRNTTEXT lda TEXTS,Y
08F1 F0 06    312 beq >1
08F3      313 ;
08F3 20 ED FD 314 jsr COUT
08F6      315 ;
08F6 C8       316 iny
08F7 D0 F5    317 bne PRNTTEXT ; always taken
08F9      318 ;
08F9 60       319 ^1 rts
08FA      320 ;
08FA      321 ;
08FA      322 TEXTS:
08FA      323 ;
08FA 8D       324 TEXT1 byt RETURN
08FB C9 EE F3 325 asc "Installing c2t routines, "
08FE F4 E1 EC
0901 EC E9 EE
0904 E7 A0 E3
0907 B2 F4 A0
090A F2 EF F5
090D F4 E9 EE
0910 E5 F3 AC
0913 A0
0914 B0 B0 AE 326 TEXTMOD asc "00.0 seconds"
0917 B0 A0 F3
091A E5 E3 EF
091D EE E4 F3
0920 8D 8D 00 327 byt RETURN,RETURN,ZERO
0923      328 ;
0923      329 ;
0923      330 ; I developed this version of the DATALOAD code using ideas
0923      331 ; from the DISKLOAD8000 and the DISKLOAD9600 routines. The
0923      332 ; c2t software should adjust the second half of the 1's
0923      333 ; waveform to match the second half of the 0's waveform.
0923      334 ; Testing has verified that this routine has no timing
0923      335 ; issues.
0923      336 ;
0923      337 DATACODE:
0923      338 ;
0923      339 phs DATALOAD
B000      340 ;
B000      341 CODEBGN:
B000      342 ;
B000      343 ; Initialize the DATALOAD routine.
B000      344 ;
B000 A9 FF    345 lda #NEGONE
B002 85 04    346 sta CHKSUM
B004      347 ;
B004 A0 00    348 ldy #ZERO
B006      349 ;
B006      350 ;
B006      351 ; Consume two of the first waveforms found.
B006      352 ;
B006 2C 60 C0 353 ^0 bit TAPEIN
B009 30 FB    354 bmi <0

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B00B          355 ;
B00B 2C 60 C0 356 ^1      bit TAPEIN
B00E 10 FB    357      bpl <1
B010          358 ;
B010          359 ;
B010          360 ; Initialize the beginning of a new data byte.
B010          361 ;
B010 A9 01    362 ^2      lda #1
B012          363 ;
B012          364 ;
B012          365 ; Consume the negative half of the old waveform.
B012          366 ;
B012 2C 60 C0 367 ^3      bit TAPEIN
B015 30 FB    368      bmi <3
B017          369 ;
B017          370 ;
B017          371 ; Expect a 0-bit to arrive in 31 us (16000 Hz).
B017          372 ; Expect a 1-bit to arrive in 63 us (8000 Hz).
B017          373 ; Expect a header bit to arrive in 83 us (6 KHz).
B017          374 ; Expect an idle bit to arrive in greater than 100 us.
B017          375 ;
B017          376 ; Start of wave form. Begin testing 16 cycles from now.
B017          377 ; Assume a zero-bit wave form now, so clear the C-flag.
B017          378 ;
B017 20 D0 B0 379      jsr DATARTN
B01A          380 ;
B01A EA       381      nop
B01B 18       382      clc
B01C          383 ;
B01C          384 ;
B01C          385 ; 16 us from start of wave form. Bit tests at 20 us.
B01C          386 ;
B01C 2C 60 C0 387      bit TAPEIN
B01F 30 2E    388      bmi >5
B021          389 ;
B021          390 ;
B021          391 ; 22-28 us from start of wave form. Bit tests at 26 us.
B021          392 ;
B021 2C 60 C0 393      bit TAPEIN
B024 30 29    394      bmi >5
B026          395 ;
B026          396 ;
B026          397 ; Assume wave form is for a one-bit now.
B026          398 ; 28-34 us from start of wave form. Bit tests at 32 us.
B026          399 ;
B026 2C 60 C0 400      bit TAPEIN
B029 30 23    401      bmi >4
B02B          402 ;
B02B          403 ;
B02B          404 ; 34-40 us from start of wave form. Bit tests at 38 us.
B02B          405 ;
B02B 2C 60 C0 406      bit TAPEIN
B02E 30 1E    407      bmi >4
B030          408 ;
B030          409 ;
B030          410 ; 40-46 us from start of wave form. Bit tests at 44 us.
B030          411 ;
B030 2C 60 C0 412      bit TAPEIN
B033 30 19    413      bmi >4
B035          414 ;
B035          415 ;

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B035      416 ; 46-52 us from start of wave form.  Bit tests at 50 us.
B035      417 ;
B035 2C 60 C0 418      bit TAPEIN
B038 30 14 419      bmi >4
B03A      420 ;
B03A      421 ;
B03A      422 ; Assume wave form is for a HDR now.
B03A      423 ; 52 us from start of wave form.
B03A      424 ;
B03A 20 D0 B0 425      jsr DATARTN
B03D      426 ;
B03D      427 ;
B03D      428 ; 64-70 us from start of wave form.  Bit tests at 68 us.
B03D      429 ;
B03D 2C 60 C0 430      bit TAPEIN
B040 30 C9 431      bmi <1
B042      432 ;
B042      433 ;
B042      434 ; 70-76 us from start of wave form.  Bit tests at 74 us.
B042      435 ;
B042 2C 60 C0 436      bit TAPEIN
B045 30 C4 437      bmi <1
B047      438 ;
B047      439 ;
B047      440 ; 74-82 us from start of wave form.  Bit tests at 80 us.
B047      441 ;
B047 2C 60 C0 442      bit TAPEIN
B04A 30 BF 443      bmi <1
B04C      444 ;
B04C      445 ;
B04C      446 ; 82 us from start of wave form.
B04C      447 ; Assume wave form is at End of Data now.
B04C      448 ;
B04C 10 11 449      bpl >6                      ; always taken
B04E      450 ;
B04E      451 ;
B04E      452 ; Assume a one-bit wave form now, so set the C-flag.
B04E      453 ;
B04E 38 454      ^4      sec
B04F      455 ;
B04F      456 ;
B04F      457 ; Capture bit value.  Test for data byte complete.  This
B04F      458 ; processing takes 4-5 us to complete.
B04F      459 ;
B04F 2A 460      ^5      rol
B050 90 C0 461      bcc <3
B052      462 ;
B052      463 ;
B052      464 ; Save data byte and update checksum.  This processing
B052      465 ; takes 12 us to complete.
B052      466 ;
B052 91 00 467      sta (DATAPTR),Y
B054      468 ;
B054 45 04 469      eor CHKSUM
B056 85 04 470      sta CHKSUM
B058      471 ;
B058      472 ;
B058      473 ; Test for page complete.  If so, point to the next page.
B058      474 ; Return to the top of the data loop and begin a new data
B058      475 ; byte.
B058      476 ;

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```

B058 C8          477          iny
B059 D0 B5       478          bne <2
B05B             479          ;
B05B E6 01       480          inc DATAPTR+1
B05D D0 B1       481          bne <2          ; always taken
B05F             482          ;
B05F             483          ;
B05F             484          ; EOF handler. The 2000 Hz Header signal has been
B05F             485          ; detected. Add the Y-reg to the DATAPTR.
B05F             486          ;
B05F 18          487          ^6          clc
B060             488          ;
B060 98          489          tya
B061 85 0F       490          sta PAGEBYTE          ; save Y-reg for analysis
B063             491          ;
B063 65 00       492          adc DATAPTR
B065 85 00       493          sta DATAPTR
B067             494          ;
B067 A5 01       495          lda DATAPTR+1
B069 69 00       496          adc #ZERO
B06B 85 01       497          sta DATAPTR+1
B06D             498          ;
B06D             499          ;
B06D             500          ; Print beginning of end address status message.
B06D             501          ;
B06D A0 00       502          ldy #MSG1-MESGS          ; End address is
B06F 20 C5 B0    503          jsr PRNTEMSG
B072             504          ;
B072             505          ;
B072             506          ; Test end address for correctness.
B072             507          ;
B072 A5 00       508          lda DATAPTR
B074 C5 02       509          cmp ENDPTR
B076 D0 2B       510          bne >7
B078             511          ;
B078 A5 01       512          lda DATAPTR+1
B07A C5 03       513          cmp ENDPTR+1
B07C D0 25       514          bne >7
B07E             515          ;
B07E             516          ;
B07E             517          ; Complete address status and begin CHKSUM status message.
B07E             518          ;
B07E A0 23       519          ldy #MSG3-MESGS          ; Okay.
B080 20 C5 B0    520          jsr PRNTEMSG
B083             521          ;
B083 A0 11       522          ldy #MSG2-MESGS          ; CHKSUM value is
B085 20 C5 B0    523          jsr PRNTEMSG
B088             524          ;
B088             525          ;
B088             526          ; Test CHKSUM for correctness.
B088             527          ;
B088 A5 04       528          lda CHKSUM
B08A F0 37       529          beq >8
B08C             530          ;
B08C             531          ;
B08C             532          ; Complete CHKSUM error message.
B08C             533          ;
B08C A0 29       534          ldy #MSG4-MESGS          ; 0x
B08E 20 C5 B0    535          jsr PRNTEMSG
B091             536          ;
B091 A5 04       537          lda CHKSUM

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B093 20 DA FD 538      jsr PRBYTE
B096      539      ;
B096 A0 2C 540      ldy #MSG5-MESGS      ; and not 0x
B098 20 C5 B0 541      jsr PRNMSG
B09B      542      ;
B09B A9 00 543      lda #ZERO
B09D 20 DA FD 544      jsr PRBYTE
B0A0      545      ;
B0A0 4C BB B0 546      jmp ERROR
B0A3      547      ;
B0A3      548      ;
B0A3      549      ; Complete end address error message.
B0A3      550      ;
B0A3 A0 29 551      ^7      ldy #MSG4-MESGS      ; 0x
B0A5 20 C5 B0 552      jsr PRNMSG
B0A8      553      ;
B0A8 A6 00 554      ldx DATAPTR
B0AA A5 01 555      lda DATAPTR+1
B0AC      556      ;
B0AC 20 41 F9 557      jsr PRNTAX
B0AF      558      ;
B0AF A0 2C 559      ldy #MSG5-MESGS      ; and not 0x
B0B1 20 C5 B0 560      jsr PRNMSG
B0B4      561      ;
B0B4 A6 02 562      ldx ENDPTR
B0B6 A5 03 563      lda ENDPTR+1
B0B8      564      ;
B0B8 20 41 F9 565      jsr PRNTAX
B0BB      566      ;
B0BB      567      ;
B0BB      568      ; Enter the Monitor because an error occurred.
B0BB      569      ;
B0BB A0 38 570      ERROR      ldy #MSG6-MESGS      ; .
B0BD 20 C5 B0 571      jsr PRNMSG
B0C0      572      ;
B0C0 4C 69 FF 573      jmp MONITOR
B0C3      574      ;
B0C3      575      ;
B0C3      576      ; Complete CHKSUM status and return to caller.
B0C3      577      ;
B0C3 A0 23 578      ^8      ldy #MSG3-MESGS      ; Okay.
B0C5      579      ;
B0C5      580      ;
B0C5 B9 D1 B0 581      PRNMSG      lda MSGS,Y
B0C8 F0 06 582      beq >1
B0CA      583      ;
B0CA 20 ED FD 584      jsr COUT
B0CD      585      ;
B0CD C8 586      iny
B0CE D0 F5 587      bne PRNMSG      ; always taken
B0D0      588      ;
B0D0      589      DATARTN:
B0D0      590      ;
B0D0 60 591      ^1      rts
B0D1      592      ;
B0D1      593      ;
B0D1      594      MSGS:
B0D1      595      ;
B0D1 8D 596      MSG1      byt RETURN
B0D2 C5 EE E4 597      asc "End address is "
B0D5 A0 E1 E4

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B0D8 E4 F2 E5
B0DB F3 F3 A0
B0DE E9 F3 A0
B0E1 00          598          byt ZERO
B0E2          599          ;
B0E2 8D          600 MSG2      byt RETURN
B0E3 C3 C8 CB    601          asc "CHKSUM value is "
B0E6 D3 D5 CD
B0E9 A0 F6 E1
B0EC EC F5 E5
B0EF A0 E9 F3
B0F2 A0
B0F3 00          602          byt ZERO
B0F4          603          ;
B0F4 CF EB E1    604 MSG3      asc "Okay."
B0F7 F9 AE
B0F9 00          605          byt ZERO
B0FA          606          ;
B0FA B0 F8       607 MSG4      asc "0x"
B0FC 00          608          byt ZERO
B0FD          609          ;
B0FD A0 E1 EE    610 MSG5      asc " and not 0x"
B100 E4 A0 EE
B103 EF F4 A0
B106 B0 F8
B108 00          611          byt ZERO
B109          612          ;
B109 AE          613 MSG6      asc "."
B10A 8D 00       614          byt RETURN,ZERO
B10C          615          ;
B10C          616          ;
010C          617 CODELEN    equ *-CODEBGN
B10C          618          ;
B10C          619          ;
B10C          620          phs DATACODE+CODELEN
0A2F          621          ;
0A2F          622          ;
0A2F          623          ; The following values are supplied by c2t.
0A2F          624          ;
0A2F B0 B0 AE    625 LOADTIME asc "00.0"          ; time to install c2t routines
0A32 B0
0A33          626          ;
0A33 00          627 CMPLOAD   hex 00          ; compress load flag
0A34 00          628 DOSLOAD   hex 00          ; DOS load flag
0A35          629          ;
0A35 00          630 SCNTFLAG  hex 00          ; slot connect flag
0A36 00          631 SLOTCX    hex 00          ; slot CX MSB address
0A37          632          ;
0A37          633          ;

BSAVE DATALOAD10,A$0810,B,L$0227

0A37          634          usr DATALOAD10
0A37          635          ;
0A37          636          ;
0A37          637          stt "DATALOAD10 Symbol Table"
0A37          638          ;
0A37          639          ;
0A37          640          end 111

```

\*\*\* End of Assembly

Symbol List starts at 0x7800, ends at 0x7ABC, used 0x02BC, remaining 0x3CA0

# Symbols unsorted:

DATAPTR	0000	ENDPTR	0002	CHKSUM	0004	SRCPTR	0008	DSTPTR	000A
PAGEBYTE	000F	ZERO	0000	NEGONE	00FF	RETURN	008D	PAGESIZE	0100
XMODE	04FB	DISKLOAD	0810	DISKADR	2000	DISKLEN	0600	INFLLEN	0200
DOSLEN1	1A00	DOSLEN2	0E00	DOSLEN3	0200	DOSLEN	2A00	DATALOAD	B000
DISKCOPY	B200	INFLATE	B800	DOSADR1	D000	DOSADR2	D000	DOSADR3	BE00
MNGUSER	BFF6	INITDOS	BFF8	VID80OFF	C00C	ALTCHOFF	C00E	CONNECT	C010
TAPEIN	C060	ROM2WP	C082	RAM2WE	C083	RAM1WE	C08B	PRNTAX	F941
INIT	FB2F	PRBYTE	FDDA	COUT	FDED	SETNORM	FE84	SETKBD	FE89
SETVID	FE93	MONITOR	FF69	RTNUSER	08C2	COPYPGS	08D7	SETUSER	08E8
SLOTcnt	08EB	PRNTTEXT	08EE	TEXTS	08FA	TEXT1	08FA	TEXTMOD	0914
DATACODE	0923	CODEBGN	B000	ERROR	B0BB	PRNTMSG	B0C5	DATARTN	B0D0
MESGS	B0D1	MSG1	B0D1	MSG2	B0E2	MSG3	B0F4	MSG4	B0FA
MSG5	B0FD	MSG6	B109	CODELEN	010C	LOADTIME	0A2F	CMPLOAD	0A33
DOSLOAD	0A34	SCNTFLAG	0A35	SLOTcx	0A36				

# Symbols alphabetically sorted:

ALTCHOFF	C00E	CHKSUM	0004	CMPLOAD	0A33	CODEBGN	B000	CODELEN	010C
CONNECT	C010	COPYPGS	08D7	COUT	FDED	DATACODE	0923	DATALOAD	B000
DATAPTR	0000	DATARTN	B0D0	DISKADR	2000	DISKCOPY	B200	DISKLEN	0600
DISKLOAD	0810	DOSADR1	D000	DOSADR2	D000	DOSADR3	BE00	DOSLEN	2A00
DOSLEN1	1A00	DOSLEN2	0E00	DOSLEN3	0200	DOSLOAD	0A34	DSTPTR	000A
ENDPTR	0002	ERROR	B0BB	INFLATE	B800	INFLLEN	0200	INIT	FB2F
INITDOS	BFF8	LOADTIME	0A2F	MSG1	B0D1	MSG2	B0E2	MSG3	B0F4
MSG4	B0FA	MSG5	B0FD	MSG6	B109	MESGS	B0D1	MNGUSER	BFF6
MONITOR	FF69	NEGONE	00FF	PAGEBYTE	000F	PAGESIZE	0100	PRBYTE	FDDA
PRNTAX	F941	PRNTMSG	B0C5	PRNTTEXT	08EE	RAM1WE	C08B	RAM2WE	C083
RETURN	008D	ROM2WP	C082	RTNUSER	08C2	SCNTFLAG	0A35	SETKBD	FE89
SETNORM	FE84	SETUSER	08E8	SETVID	FE93	SLOTcnt	08EB	SLOTcx	0A36
SRCPTR	0008	TAPEIN	C060	TEXT1	08FA	TEXTMOD	0914	TEXTS	08FA
VID80OFF	C00C	XMODE	04FB	ZERO	0000				

# Symbols numerically sorted:

ZERO	0000	DATAPTR	0000	ENDPTR	0002	CHKSUM	0004	SRCPTR	0008
DSTPTR	000A	PAGEBYTE	000F	RETURN	008D	NEGONE	00FF	PAGESIZE	0100
CODELEN	010C	INFLLEN	0200	DOSLEN3	0200	XMODE	04FB	DISKLEN	0600
DISKLOAD	0810	RTNUSER	08C2	COPYPGS	08D7	SETUSER	08E8	SLOTcnt	08EB
PRNTTEXT	08EE	TEXTS	08FA	TEXT1	08FA	TEXTMOD	0914	DATACODE	0923
LOADTIME	0A2F	CMPLOAD	0A33	DOSLOAD	0A34	SCNTFLAG	0A35	SLOTcx	0A36
DOSLEN2	0E00	DOSLEN1	1A00	DISKADR	2000	DOSLEN	2A00	DATALOAD	B000
CODEBGN	B000	ERROR	B0BB	PRNTMSG	B0C5	DATARTN	B0D0	MESGS	B0D1
MSG1	B0D1	MSG2	B0E2	MSG3	B0F4	MSG4	B0FA	MSG5	B0FD
MSG6	B109	DISKCOPY	B200	INFLATE	B800	DOSADR3	BE00	MNGUSER	BFF6
INITDOS	BFF8	VID80OFF	C00C	ALTCHOFF	C00E	CONNECT	C010	TAPEIN	C060
ROM2WP	C082	RAM2WE	C083	RAM1WE	C08B	DOSADR2	D000	DOSADR1	D000
PRNTAX	F941	INIT	FB2F	PRBYTE	FDDA	COUT	FDED	SETNORM	FE84
SETKBD	FE89	SETVID	FE93	MONITOR	FF69				