

!A

*** End of Pass 1

*** End of Pass 2

```
0800      1          ttl "INSTALL DOS 3.3 Source Code, INSTALL.L"
0800      2      ;
0800      3      ;
0800      4      ; INSTALL.L
0800      5      ;
0800      6      ;
0800      7      ; INSTALL DOS 3.3 Source Code
0800      8      ;
0800      9      ; 2018 November 13
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      ; Unitied 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      ZERO      equ $00
00FF     36      NEGONE    equ $FF
0800     37      ;
0002     38      RWTSWRIT equ $02
0800     39      ;
0084     40      CTRLD     equ $84
008D     41      RETURN    equ $8D
0800     42      ;
0100     43      PAGESIZE  equ $100
0800     44      ;
03D0     45      DOSWARM   equ $3D0
03D9     46      RWTS      equ $3D9
03E8     47      PRTERADR  equ $3E8
0800     48      ;
1000     49      IMAGBGN   equ $1000
0800     50      ;
9D00     51      DOSTART   equ $9D00
B600     52      VTOCSB    equ $B600
B600     53      RWTSCODE  equ $B600
C000     54      BOOTEND   equ $C000
0800     55      ;
1900     56      PART1     equ VTOCSB-DOSTART
0A00     57      PART2     equ BOOTEND-RWTSCODE
0800     58      ;
C000     59      KEY       equ $C000
C010     60      CLRKEY    equ $C010
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0800          61 ;
FC58          62 HOME      equ $FC58
FD8E          63 CROUT     equ $FD8E
FDDA          64 PRBYTE    equ $FDDA
FDED          65 COUT      equ $FDED
0800          66 ;
0800          67 ;
0900          68          org $900
0900          69          obj $900
0900          70          usr
0900          71 ;
0900          72 ;
0900 20 58 FC  73          jsr HOME
0903          74 ;
0903 A0 00     75          ldy #MSG1-MESGS
0905 20 B1 09  76          jsr PRTMSG
0908          77 ;
0908 A0 25     78          ldy #MSG2-MESGS
090A 20 B1 09  79          jsr PRTMSG
090D          80 ;
090D A0 3B     81          ldy #MSG3-MESGS
090F 20 B1 09  82          jsr PRTMSG
0912          83 ;
0912 A0 5A     84          ldy #MSG4-MESGS
0914 20 B1 09  85          jsr PRTMSG
0917          86 ;
0917 20 A4 09  87          jsr GETKEY
091A          88 ;
091A A0 9F     89          ldy #MSG5-MESGS
091C 20 B1 09  90          jsr PRTMSG
091F          91 ;
091F A9 00     92          lda #ZERO
0921 8D BA 0A  93          sta TNUM
0924          94 ;
0924 A9 0C     95          lda #$0C
0926 8D BB 0A  96          sta SNUM
0929          97 ;
0929 A9 10     98          lda /IMAGBGN
092B 8D BF 0A  99          sta USRBUF+1
092E          100 ;
092E A2 19     101         ldx /PART1
0930          102 ;
0930 20 48 09  103         jsr WRDATA
0933          104 ;
0933 A9 00     105         lda #ZERO
0935 8D BA 0A  106         sta TNUM
0938 8D BB 0A  107         sta SNUM
093B          108 ;
093B A2 0A     109         ldx /PART2
093D          110 ;
093D 20 48 09  111         jsr WRDATA
0940          112 ;
0940 A0 B7     113         ldy #MSG6-MESGS
0942 20 B1 09  114         jsr PRTMSG
0945          115 ;
0945 4C D0 03  116         jmp DOSWARM
0948          117 ;
0948          118 ;
0948 8E B5 0A  119 WRDATA   stx COUNTER
094B          120 ;
094B A0 B6     121 ^1      ldy #TBLTYPE

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094D A9 0A      122      lda /TBLTYPE
094F           123      ;
094F 20 D9 03   124      jsr RWTS
0952 B0 20      125      bcs >3
0954           126      ;
0954 A9 AE      127      lda #". "
0956 20 ED FD   128      jsr COUT
0959           129      ;
0959 EE BF 0A   130      inc USRBUF+1
095C           131      ;
095C EE BB 0A   132      inc SNUM
095F           133      ;
095F AD BB 0A   134      lda SNUM
0962 C9 10      135      cmp #$10
0964 D0 08      136      bne >2
0966           137      ;
0966 A9 00      138      lda #ZERO
0968 8D BB 0A   139      sta SNUM
096B           140      ;
096B EE BA 0A   141      inc TNUM
096E           142      ;
096E CE B5 0A   143      ^2    dec COUNTER
0971 D0 D8      144      bne <1
0973           145      ;
0973 60         146      rts
0974           147      ;
0974 A0 E2      148      ^3    ldy #ERRMESG-MESGS
0976 20 B1 09   149      jsr PRTMESG
0979           150      ;
0979 AD C3 0A   151      lda ERRCODE
097C 20 DA FD   152      jsr PRBYTE
097F           153      ;
097F 20 8E FD   154      jsr CROUT
0982 20 8E FD   155      jsr CROUT
0985           156      ;
0985 AD C3 0A   157      lda ERRCODE
0988           158      ;
0988 4A         159      lsr
0989 4A         160      lsr
098A 4A         161      lsr
098B 4A         162      lsr
098C           163      ;
098C A8         164      tay
098D           165      ;
098D BE 9C 09   166      ldx RWTS2FM,Y
0990 20 A1 09   167      jsr PRTEROR
0993           168      ;
0993 20 8E FD   169      jsr CROUT
0996 20 8E FD   170      jsr CROUT
0999           171      ;
0999 4C D0 03   172      jmp DOSWARM
099C           173      ;
099C           174      ;
099C 03 04 07   175      RWTS2FM  hex 0304070B08
099F 0B 08      176      ;
09A1           177      ;
09A1 6C E8 03   178      PRTEROR  jmp (PRTERADR)
09A4           179      ;
09A4           180      ;
09A4 2C 10 C0   181      GETKEY  bit CLRKEY

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```
09A7          182      ;
09A7 AD 00 C0  183      ^1      lda KEY
09AA          184      ;
09AA EA       185      nop
09AB          186      ;
09AB 10 FA     187      bpl <1
09AD          188      ;
09AD 2C 10 C0  189      bit CLRKEY
09B0          190      ;
09B0 60        191      rts
09B1          192      ;
09B1          193      ;
09B1 B9 BD 09  194 PRTMSG  lda MSGS,Y
09B4 F0 06     195      beq >1
09B6          196      ;
09B6 20 ED FD  197      jsr COUT
09B9          198      ;
09B9 C8        199      iny
09BA D0 F5     200      bne PRTMSG
09BC          201      ;
09BC 60        202      ^1      rts
09BD          203      ;
09BD          204      ;
09BD          205  MSGS:
09BD          206      ;
09BD 8D        207  MSG1      byt RETURN
09BE D2 E5 E1  208      asc "Reading DOS 3.3 image into memory."
09C1 E4 E9 EE
09C4 E7 A0 C4
09C7 CF D3 A0
09CA B3 AE B3
09CD A0 E9 ED
09D0 E1 E7 E5
09D3 A0 E9 EE
09D6 F4 EF A0
09D9 ED E5 ED
09DC EF F2 F9
09DF AE
09E0 8D 00     209      byt RETURN,ZERO
09E2          210      ;
09E2 84        211  MSG2      byt CTRLD
09E3 C2 CC CF  212      asc "BLOAD DOS3.3,A$1000"
09E6 C1 C4 A0
09E9 C4 CF D3
09EC B3 AE B3
09EF AC C1 A4
09F2 B1 B0 B0
09F5 B0
09F6 8D 00     213      byt RETURN,ZERO
09F8          214      ;
09F8 8D        215  MSG3      byt RETURN
09F9 C4 CF D3  216      asc "DOS 3.3 image now in memory."
09FC A0 B3 AE
09FF B3 A0 E9
0A02 ED E1 E7
0A05 E5 A0 EE
0A08 EF F7 A0
0A0B E9 EE A0
0A0E ED E5 ED
0A11 EF F2 F9
0A14 AE
```

```

0A15 8D 00      217      byt RETURN,ZERO
0A17           218      ;
0A17 8D 8D      219      MSG4      byt RETURN,RETURN
0A19 C9 EE F3   220      asc "Insert diskette into Slot 6, Drive 2."
0A1C E5 F2 F4
0A1F A0 E4 E9
0A22 F3 EB E5
0A25 F4 F4 E5
0A28 A0 E9 EE
0A2B F4 EF A0
0A2E D3 EC EF
0A31 F4 A0 B6
0A34 AC A0 C4
0A37 F2 E9 F6
0A3A E5 A0 B2
0A3D AE
0A3E 8D 8D      221      byt RETURN,RETURN
0A40 D0 F2 E5   222      asc "Press any key to continue."
0A43 F3 F3 A0
0A46 E1 EE F9
0A49 A0 EB E5
0A4C F9 A0 F4
0A4F EF A0 E3
0A52 EF EE F4
0A55 E9 EE F5
0A58 E5 AE
0A5A 8D 00      223      byt RETURN,ZERO
0A5C           224      ;
0A5C 8D 8D      225      MSG5      byt RETURN,RETURN
0A5E C9 EE F3   226      asc "Installing DOS 3.3."
0A61 F4 E1 EC
0A64 EC E9 EE
0A67 E7 A0 C4
0A6A CF D3 A0
0A6D B3 AE B3
0A70 AE
0A71 8D 8D 00   227      byt RETURN,RETURN,ZERO
0A74           228      ;
0A74 8D 8D 8D   229      MSG6      byt RETURN,RETURN,RETURN
0A77 C9 EE F3   230      asc "Installation of DOS 3.3 is complete."
0A7A F4 E1 EC
0A7D EC E1 F4
0A80 E9 EF EE
0A83 A0 EF E6
0A86 A0 C4 CF
0A89 D3 A0 B3
0A8C AE B3 A0
0A8F E9 F3 A0
0A92 E3 EF ED
0A95 F0 EC E5
0A98 F4 E5 AE
0A9B 8D 8D 8D   231      byt RETURN,RETURN,RETURN,ZERO
0A9E 00
0A9F           232      ;
0A9F 8D         233      ERRMSG      byt RETURN
0AA0 C5 F2 F2   234      asc "Error from RWTS = 0x"
0AA3 EF F2 A0
0AA6 E6 F2 EF
0AA9 ED A0 D2
0AAC D7 D4 D3
0AAF A0 BD A0

```

```
0AB2 B0 F8
0AB4 00      235      byt ZERO
0AB5      236      ;
0AB5      237      ;
0AB5      238 COUNTER dfs 1,0
0AB6      239      ;
0AB6      240      ;
0AB6      241 TBLTYPE dfs 1,1      ; IOB structure block
0AB7 60      242 SNUM16 hex 60      ; slot * 16
0AB8      243 DNUM      dfs 1,2      ; drive number
0AB9      244 VOEXPT    dfs 1,ZERO    ; volume number
0ABA      245 TNUM      dfs 1,0      ; track number
0ABB      246 SNUM      dfs 1,12     ; sector number
0ABC 00 00   247 DCTADR  adr *-*      ; address of DCT
0ABE 00 10   248 USRBUF  adr IMAGBGN  ; user buffer address
0AC0      249 IOCBPHAS  dfs 1,ZERO    ; half phases per track
0AC1 00      250 BYTCNT  byt PAGESIZE ; bytes to read/write
0AC2      251 CMDCODE   dfs 1,RWTSWRT ; command
0AC3      252 ERRCODE   dfs 1,ZERO    ; return error code
0AC4      253 VOLFND     dfs 1,ZERO    ; return volume found
0AC5      254 SLOTFND    dfs 1,ZERO    ; return slot found
0AC6      255 DRVFND     dfs 1,ZERO    ; return drive found
0AC7      256      ;
0AC7      257      ;
```

BSAVE INSTALL,A\$0900,B,L\$01C7

```
0AC7      258      usr INSTALL
0AC7      259      ;
0AC7      260      ;
0AC7      261      end 111
```

*** End of Assembly

Symbol List starts at 0x7800, ends at 0x7A12, used 0x0212, remaining 0x3D8A

Symbols unsorted:

ZERO	0000	NEGONE	00FF	RWTSWRIT	0002	CTRLD	0084	RETURN	008D
PAGESIZE	0100	DOSWARM	03D0	RWTS	03D9	PRTERADR	03E8	IMAGBGN	1000
DOSTART	9D00	VTOCSB	B600	RWTSCODE	B600	BOOTEND	C000	PART1	1900
PART2	0A00	KEY	C000	CLRKEY	C010	HOME	FC58	CROUT	FD8E
PRBYTE	FDDA	COUT	FDED	WRDATA	0948	RWTS2FM	099C	PRTERORR	09A1
GETKEY	09A4	PRTMSG	09B1	MSG5	09BD	MSG1	09BD	MSG2	09E2
MSG3	09F8	MSG4	0A17	MSG5	0A5C	MSG6	0A74	ERRMSG	0A9F
COUNTER	0AB5	TBLTYPE	0AB6	SNUM16	0AB7	DNUM	0AB8	VOLEXPT	0AB9
TNUM	0ABA	SNUM	0ABB	DCTADR	0ABC	USRBUF	0ABE	IOCBPHAS	0AC0
BYTCNT	0AC1	CMDCODE	0AC2	ERRCODE	0AC3	VOLFND	0AC4	SLOTFND	0AC5
DRVFND	0AC6								

Symbols alphabetically sorted:

BOOTEND	C000	BYTCNT	0AC1	CLRKEY	C010	CMDCODE	0AC2	COUNTER	0AB5
COUT	FDED	CROUT	FD8E	CTRLD	0084	DCTADR	0ABC	DNUM	0AB8
DOSTART	9D00	DOSWARM	03D0	DRVFND	0AC6	ERRCODE	0AC3	ERRMSG	0A9F
GETKEY	09A4	HOME	FC58	IMAGBGN	1000	IOCBPHAS	0AC0	KEY	C000
MESG1	09BD	MESG2	09E2	MESG3	09F8	MESG4	0A17	MESG5	0A5C
MESG6	0A74	MESGS	09BD	NEGONE	00FF	PAGESIZE	0100	PART1	1900
PART2	0A00	PRBYTE	FD8E	PRTERADR	03E8	PRTERORR	09A1	PRTMSG	09B1
RETURN	008D	RWTS	03D9	RWTS2FM	099C	RWTSCODE	B600	RWTSWRIT	0002
SLOTFND	0AC5	SNUM	0ABB	SNUM16	0AB7	TBLTYPE	0AB6	TNUM	0ABA
USRBUF	0ABE	VOLEXPT	0AB9	VOLFND	0AC4	VTCSB	B600	WRDATA	0948
ZERO	0000								

Symbols numerically sorted:

ZERO	0000	RWTSWRIT	0002	CTRLD	0084	RETURN	008D	NEGONE	00FF
PAGESIZE	0100	DOSWARM	03D0	RWTS	03D9	PRTERADR	03E8	WRDATA	0948
RWTS2FM	099C	PRTERORR	09A1	GETKEY	09A4	PRTMSG	09B1	MESGS	09BD
MESG1	09BD	MESG2	09E2	MESG3	09F8	PART2	0A00	MESG4	0A17
MESG5	0A5C	MESG6	0A74	ERRMSG	0A9F	COUNTER	0AB5	TBLTYPE	0AB6
SNUM16	0AB7	DNUM	0AB8	VOLEXPT	0AB9	TNUM	0ABA	SNUM	0ABB
DCTADR	0ABC	USRBUF	0ABE	IOCBPHAS	0AC0	BYTCNT	0AC1	CMDCODE	0AC2
ERRCODE	0AC3	VOLFND	0AC4	SLOTFND	0AC5	DRVFND	0AC6	IMAGBGN	1000
PART1	1900	DOSTART	9D00	VTOCSB	B600	RWTSCODE	B600	KEY	C000
BOOTEND	C000	CLRKEY	C010	HOME	FC58	CROUT	FD8E	PRBYTE	FDDA
COUT	FD8E								