

!A

*** End of Pass 1

*** End of Pass 2

```
0800      1          ttl "Install DOS 4.3H Source Code, INSTALL43H.L"
0800      2      ;
0800      3      ;
0800      4      ; INSTALL43H.L
0800      5      ;
0800      6      ;
0800      7      ; Install DOS 4.3H Source Code
0800      8      ;
0800      9      ; 2024 February 14
0800     10      ;
0800     11      ;
0800     12      ; DOS 4.3H, Build 08
0800     13      ;
0800     14      ; 2020 January 1
0800     15      ;
0800     16      ;
0800     17      ; DOS 4.5, Build 06
0800     18      ;
0800     19      ; 2024 February 14
0800     20      ;
0800     21      ;
0800     22      ; Start of Source Code: 0x4000
0800     23      ; Start of Symbol List: 0x7800
0800     24      ;
0800     25      ;
0800     26      ; Copyright (c) 2024 February 14 by
0800     27      ; Walland Philip Vrbancic Jr.
0800     28      ;
0800     29      ; 6223 East Peabody Street
0800     30      ; Long Beach, California 90808
0800     31      ; Unitied States of America
0800     32      ;
0800     33      ; All Rights Reserved
0800     34      ;
0800     35      ; This software is the confidential and
0800     36      ; proprietary intellectual property of
0800     37      ; Walland Philip Vrbancic Jr.
0800     38      ;
0800     39      ;
0800     40      ; Sector to Memory Address map:
0800     41      ;
0800     42      ; Tk  Sr  Addr  Pgm      Tk  Sr  Addr  Pgm
0800     43      ; --  --  ----  ----      --  --  ----  ----
0800     44      ; 0   0   BF00  BOOT      1   5   E400  MNGR
0800     45      ; 0   1   BE00  XFER      1   6   E300  MNGR
0800     46      ; 0   2   DD00*  HELP      1   7   E200  MNGR
0800     47      ; 0   3   DC00*  HELP      1   8   E100  MNGR
0800     48      ; 0   4   DB00*  HELP      1   9   E000  MNGR
0800     49      ; 0   5   DA00*  HELP      1   A   DF00  MNGR
0800     50      ; 0   6   D900*  HELP      1   B   DE00  MNGR
0800     51      ; 0   7   D800*  HELP      1   C   DD00  MNGR
0800     52      ; 0   8   D700*  HELP      1   D   DC00  MNGR
0800     53      ; 0   9   D600*  INRF      1   E   DB00  CMD
0800     54      ; 0   A   D500*  RWTS      1   F   DA00  CMD
0800     55      ; 0   B   D400*  RWTS      2   0   D900  CMD
0800     56      ; 0   C   D300*  RWTS      2   1   D800  CMD
0800     57      ; 0   D   D200*  RWTS      2   2   D700  CMD
0800     58      ; 0   E   D100*  RWTS      2   3   D600  CMD
0800     59      ; 0   F   D000*  RWTS      2   4   D500  CMD
0800     60      ; 1   0   E900  DATA      2   5   D400  CMD
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0800          61 ; 1 1 E800 DATA 2 6 D300 CMD
0800          62 ; 1 2 E700 DATA 2 7 D200 CMD
0800          63 ; 1 3 E600 DATA 2 8 D100 CMD
0800          64 ; 1 4 E500 SPCL 2 9 D000 CMD
0800          65 ;
0800          66 ;
0000          67 ZERO equ $00
00FF          68 NEGONE equ $FF
0800          69 ;
0002          70 RWTSWRIT equ $02
0800          71 ;
0084          72 CTRLD equ $84
008D          73 RETURN equ $8D
0800          74 ;
0100          75 PAGESIZE equ $100
0800          76 ;
03D0          77 DOSWARM equ $3D0
03D9          78 RWTS equ $3D9
03E8          79 PRTERADR equ $3E8
0800          80 ;
1000          81 IMAGBGN equ $1000
0800          82 ;
D000          83 DOSTART equ $D000
EA00          84 DOSEND equ $EA00
D000          85 RWTSTART equ $D000
DE00          86 HELPEND equ $DE00
BE00          87 XFERSTRT equ $BE00
C000          88 BOOTEND equ $C000
0800          89 ;
1A00          90 PART1 equ DOSEND-DOSTART
0E00          91 PART2 equ HELPEND-RWTSTART
0200          92 PART3 equ BOOTEND-XFERSTRT
0800          93 ;
2A00          94 IMAGLEN equ PART1+PART2+PART3
0800          95 ;
C000          96 KEY equ $C000
C010          97 CLRKEY equ $C010
0800          98 ;
FC58          99 HOME equ $FC58
FD8E         100 CROUT equ $FD8E
FDDA         101 PRBYTE equ $FDDA
FDED         102 COUT equ $FDED
0800         103 ;
0800         104 ;
0900         105 org $900
0900         106 obj $900
0900         107 usr
0900         108 ;
0900         109 ;
0900 20 58 FC 110 jsr HOME
0903         111 ;
0903 A0 00    112 ldy #MSG1-MESGS
0905 20 95 09 113 jsr PRTMSG
0908         114 ;
0908 A0 25    115 ldy #MSG2-MESGS
090A 20 95 09 116 jsr PRTMSG
090D         117 ;
090D A0 3C    118 ldy #MSG3-MESGS
090F 20 95 09 119 jsr PRTMSG
0912         120 ;
0912 A0 5B    121 ldy #MSG4-MESGS

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0914 20 95 09      122      jsr PRTMSG
0917                123      ;
0917 20 88 09      124      jsr GETKEY
091A                125      ;
091A A0 A0         126      ldy #MSG5-MESGS
091C 20 95 09      127      jsr PRTMSG
091F                128      ;
091F A9 10         129      lda /IMAGBGN
0921 8D A7 0A      130      sta USRBUF+1
0924                131      ;
0924 A2 2A         132      ldx /IMAGLEN
0926 20 31 09      133      jsr WRDATA
0929                134      ;
0929 A0 B9         135      ldy #MSG6-MESGS
092B 20 95 09      136      jsr PRTMSG
092E                137      ;
092E 4C D0 03      138      jmp DOSWARM
0931                139      ;
0931                140      ;
0931 8E 9D 0A      141      WRDATA stx COUNTER
0934                142      ;
0934 A0 9E         143      ^1 ldy #TBLTYPE
0936 A9 0A         144      lda /TBLTYPE
0938                145      ;
0938 20 D9 03      146      jsr RWTS
093B B0 1B         147      bcs >3
093D                148      ;
093D A9 AE         149      lda #"."
093F 20 ED FD      150      jsr COUT
0942                151      ;
0942 EE A7 0A      152      inc USRBUF+1
0945                153      ;
0945 CE A3 0A      154      dec SNUM
0948 10 08         155      bpl >2
094A                156      ;
094A A9 0F         157      lda #15
094C 8D A3 0A      158      sta SNUM
094F                159      ;
094F CE A2 0A      160      dec TNUM
0952                161      ;
0952 CE 9D 0A      162      ^2 dec COUNTER
0955 D0 DD         163      bne <1
0957                164      ;
0957 60            165      rts
0958                166      ;
0958 A0 E5         167      ^3 ldy #ERRMSG-MESGS
095A 20 95 09      168      jsr PRTMSG
095D                169      ;
095D AD AB 0A      170      lda ERRCODE
0960 20 DA FD      171      jsr PRBYTE
0963                172      ;
0963 20 8E FD      173      jsr CROUT
0966 20 8E FD      174      jsr CROUT
0969                175      ;
0969 AD AB 0A      176      lda ERRCODE
096C                177      ;
096C 4A           178      lsr
096D 4A           179      lsr
096E 4A           180      lsr
096F 4A           181      lsr
0970                182      ;

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0970 A8          183          tay
0971            184          ;
0971 BE 80 09    185          ldx RWTS2FM,Y
0974 20 85 09    186          jsr PRTEROR
0977            187          ;
0977 20 8E FD    188          jsr CROUT
097A 20 8E FD    189          jsr CROUT
097D            190          ;
097D 4C D0 03    191          jmp DOSWARM
0980            192          ;
0980            193          ;
0980 03 04 07    194 RWTS2FM  hex 0304070B08
0983 0B 08
0985            195          ;
0985            196          ;
0985 6C E8 03    197 PRTEROR  jmp (PRTERADR)
0988            198          ;
0988            199          ;
0988 2C 10 C0    200 GETKEY   bit CLRKEY
098B            201          ;
098B AD 00 C0    202 ^1       lda KEY
098E            203          ;
098E EA          204          nop
098F            205          ;
098F 10 FA          206          bpl <1
0991            207          ;
0991 2C 10 C0    208          bit CLRKEY
0994            209          ;
0994 60          210          rts
0995            211          ;
0995            212          ;
0995 B9 A1 09    213 PRTMSG   lda MSGS,Y
0998 F0 06      214          beq >1
099A            215          ;
099A 20 ED FD    216          jsr COUT
099D            217          ;
099D C8          218          iny
099E D0 F5      219          bne PRTMSG
09A0            220          ;
09A0 60          221 ^1       rts
09A1            222          ;
09A1            223          ;
09A1            224 MSGS:
09A1            225          ;
09A1 8D          226 MSG1     byt RETURN
09A2 D2 E5 E1    227          asc "Reading DOS 4.3H file into memory."
09A5 E4 E9 EE
09A8 E7 A0 C4
09AB CF D3 A0
09AE B4 AE B3
09B1 C8 A0 E6
09B4 E9 EC E5
09B7 A0 E9 EE
09BA F4 EF A0
09BD ED E5 ED
09C0 EF F2 F9
09C3 AE
09C4 8D 00      228          byt RETURN,ZERO
09C6            229          ;
09C6 84          230 MSG2     byt CTRLD
09C7 C2 CC CF    231          asc "BLOAD DOS4.3H,A$1000"

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```
09CA C1 C4 A0
09CD C4 CF D3
09D0 B4 AE B3
09D3 C8 AC C1
09D6 A4 B1 B0
09D9 B0 B0
09DB 8D 00      232      byt RETURN,ZERO
09DD      233      ;
09DD 8D      234      MSG3      byt RETURN
09DE C4 CF D3      235      asc "DOS 4.3H file now in memory."
09E1 A0 B4 AE
09E4 B3 C8 A0
09E7 E6 E9 EC
09EA E5 A0 EE
09ED EF F7 A0
09F0 E9 EE A0
09F3 ED E5 ED
09F6 EF F2 F9
09F9 AE
09FA 8D 00      236      byt RETURN,ZERO
09FC      237      ;
09FC 8D 8D      238      MSG4      byt RETURN,RETURN
09FE C9 EE F3      239      asc "Insert diskette into Slot 6, Drive 2."
0A01 E5 F2 F4
0A04 A0 E4 E9
0A07 F3 EB E5
0A0A F4 F4 E5
0A0D A0 E9 EE
0A10 F4 EF A0
0A13 D3 EC EF
0A16 F4 A0 B6
0A19 AC A0 C4
0A1C F2 E9 F6
0A1F E5 A0 B2
0A22 AE
0A23 8D 8D      240      byt RETURN,RETURN
0A25 D0 F2 E5      241      asc "Press any key to continue."
0A28 F3 F3 A0
0A2B E1 EE F9
0A2E A0 EB E5
0A31 F9 A0 F4
0A34 EF A0 E3
0A37 EF EE F4
0A3A E9 EE F5
0A3D E5 AE
0A3F 8D 00      242      byt RETURN,ZERO
0A41      243      ;
0A41 8D 8D      244      MSG5      byt RETURN,RETURN
0A43 C9 EE F3      245      asc "Installing DOS 4.3H."
0A46 F4 E1 EC
0A49 EC E9 EE
0A4C E7 A0 C4
0A4F CF D3 A0
0A52 B4 AE B3
0A55 C8 AE
0A57 8D 8D 00      246      byt RETURN,RETURN,ZERO
0A5A      247      ;
0A5A 8D 8D 8D      248      MSG6      byt RETURN,RETURN,RETURN
0A5D C9 EE F3      249      asc "Installation of DOS 4.3H is complete."
0A60 F4 E1 EC
0A63 EC E1 F4
```

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0A66 E9 EF EE
0A69 A0 EF E6
0A6C A0 C4 CF
0A6F D3 A0 B4
0A72 AE B3 C8
0A75 A0 E9 F3
0A78 A0 E3 EF
0A7B ED F0 EC
0A7E E5 F4 E5
0A81 AE
0A82 8D 8D 8D 250          byt RETURN,RETURN,RETURN,ZERO
0A85 00
0A86          251          ;
0A86 8D 8D 252  ERRMSG  byt RETURN,RETURN
0A88 C5 F2 F2 253          asc "Error from RWTS = 0x"
0A8B EF F2 A0
0A8E E6 F2 EF
0A91 ED A0 D2
0A94 D7 D4 D3
0A97 A0 BD A0
0A9A B0 F8
0A9C 00          254          byt ZERO
0A9D          255          ;
0A9D          256          ;
0A9D          257  COUNTER  dfs 1,ZERO
0A9E          258          ;
0A9E          259          ;
0A9E          260  TBLTYPE  dfs 1,1          ; IOB structure block
0A9F 60          261  SNUM16  hex 60          ; slot * 16
0AA0          262  DNUM      dfs 1,2          ; drive number
0AA1          263  VOLEXPT  dfs 1,ZERO        ; volume number
0AA2          264  TNUM      dfs 1,2          ; track number
0AA3          265  SNUM      dfs 1,9          ; sector number
0AA4 00 00      266  DCTADR  adr *-*          ; address of DCT
0AA6 00 10      267  USRBUF  adr IMAGBGN      ; user buffer address
0AA8          268  IOCBPHAS dfs 1,ZERO        ; half phases per track
0AA9 00          269  BYTCNT  byt PAGESIZE    ; bytes to read/write
0AAA          270  CMDCODE  dfs 1,RWTSWRIT   ; command
0AAB          271  ERRCODE  dfs 1,ZERO        ; return error code
0AAC          272  VOLFND   dfs 1,ZERO        ; return volume found
0AAD          273  SLOTFND  dfs 1,ZERO        ; return slot found
0AAE          274  DRVFND   dfs 1,ZERO        ; return drive found
0AAF          275          ;
0AAF          276          ;

```

BSAVE INSTALL43H,D1,A\$0900,B,L\$01AF

```

0AAF          277          usr INSTALL43H,D1
0AAF          278          ;
0AAF          279          ;
0AAF          280          stt "INSTALL43H Symbol Table"
0AAF          281          ;
0AAF          282          ;
0AAF          283          end 111

```

*** End of Assembly

Symbol List starts at 0x7800, ends at 0x7A3A, used 0x023A, remaining 0x3D62

Symbols unsorted:

ZERO	0000	NEGONE	00FF	RWTSWRIT	0002	CTRLD	0084	RETURN	008D
PAGESIZE	0100	DOSWARM	03D0	RWTS	03D9	PRTERADR	03E8	IMAGBGN	1000
DOSTART	D000	DOSEND	EA00	RWTSTART	D000	HELPEND	DE00	XFERSTRT	BE00
BOOTEND	C000	PART1	1A00	PART2	0E00	PART3	0200	IMAGLEN	2A00
KEY	C000	CLRKEY	C010	HOME	FC58	CROUT	FD8E	PRBYTE	FDDA
COUT	FDED	WRDATA	0931	RWTS2FM	0980	PRTERORR	0985	GETKEY	0988
PRTMSG	0995	MESGS	09A1	MSG1	09A1	MSG2	09C6	MSG3	09DD
MSG4	09FC	MSG5	0A41	MSG6	0A5A	ERRMSG	0A86	COUNTER	0A9D
TBLTYPE	0A9E	SNUM16	0A9F	DNUM	0AA0	VOLEXPT	0AA1	TNUM	0AA2
SNUM	0AA3	DCTADR	0AA4	USRBUF	0AA6	IOCBPHAS	0AA8	BYTCNT	0AA9
CMDCODE	0AAA	ERRCODE	0AAB	VOLFND	0AAC	SLOTFND	0AAD	DRVFND	0AAE

Symbols alphabetically sorted:

BOOTEND	C000	BYTCNT	0AA9	CLRKEY	C010	CMDCODE	0AAA	COUNTER	0A9D
COUT	FDED	CROUT	FD8E	CTRLD	0084	DCTADR	0AA4	DNUM	0AA0
DOSEND	EA00	DOSTART	D000	DOSWARM	03D0	DRVFND	0AAE	ERRCODE	0AAB
ERRMSG	0A86	GETKEY	0988	HELPEND	DE00	HOME	FC58	IMAGBGN	1000
IMAGLEN	2A00	IOCBPHAS	0AA8	KEY	C000	MSG1	09A1	MSG2	09C6
MSG3	09DD	MSG4	09FC	MSG5	0A41	MSG6	0A5A	MESGS	09A1
NEGONE	00FF	PAGESIZE	0100	PART1	1A00	PART2	0E00	PART3	0200
PRBYTE	FDDA	PRTERADR	03E8	PRTERORR	0985	PRTMSG	0995	RETURN	008D
RWTS	03D9	RWTS2FM	0980	RWTSTART	D000	RWTSWRIT	0002	SLOTFND	0AAD
SNUM	0AA3	SNUM16	0A9F	TBLTYPE	0A9E	TNUM	0AA2	USRBUF	0AA6
VOLEXPT	0AA1	VOLFND	0AAC	WRDATA	0931	XFERSTRT	BE00	ZERO	0000

Symbols numerically sorted:

ZERO	0000	RWTSWRIT	0002	CTRLD	0084	RETURN	008D	NEGONE	00FF
PAGESIZE	0100	PART3	0200	DOSWARM	03D0	RWTS	03D9	PRTERADR	03E8
WRDATA	0931	RWTS2FM	0980	PRTERORR	0985	GETKEY	0988	PRTMSG	0995
MESGS	09A1	MSG1	09A1	MSG2	09C6	MSG3	09DD	MSG4	09FC
MSG5	0A41	MSG6	0A5A	ERRMSG	0A86	COUNTER	0A9D	TBLTYPE	0A9E
SNUM16	0A9F	DNUM	0AA0	VOLEXPT	0AA1	TNUM	0AA2	SNUM	0AA3
DCTADR	0AA4	USRBUF	0AA6	IOCBPHAS	0AA8	BYTCNT	0AA9	CMDCODE	0AAA
ERRCODE	0AAB	VOLFND	0AAC	SLOTFND	0AAD	DRVFND	0AAE	PART2	0E00
IMAGBGN	1000	PART1	1A00	IMAGLEN	2A00	XFERSTRT	BE00	KEY	C000
BOOTEND	C000	CLRKEY	C010	RWTSTART	D000	DOSTART	D000	HELPEND	DE00
DOSEND	EA00	HOME	FC58	CROUT	FD8E	PRBYTE	FDDA	COUT	FDED