

!A

*** End of Pass 1

*** End of Pass 2

```
0800      1          ttl "Load LISA40 Source Code"
0800      2      ;
0800      3      ;
0800      4      ; LOADLISA40.L
0800      5      ;
0800      6      ;
0800      7      ; Load LISA40 Source Code
0800      8      ;
0800      9      ; 2024 February 14
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:  0x3000
0800     18      ; Start of Symbol List:  0x6000
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      ;
0800     35      ; This program loads the DOS 4.5 version of LISA40 into
0800     36      ; Auxiliary memory.  The LISA40.3 code interfaces LISA40
0800     37      ; and DOS.
0800     38      ;
0800     39      ;
0010     40      PTR1      epz $10
0012     41      PTR2      epz $12
0033     42      PROMPT    epz $33
0076     43      ASRUN     epz $76
00D8     44      ASONERR   epz $D8
0800     45      ;
0800     46               enz
0800     47      ;
0000     48      ZERO      equ $00
0084     49      CTRLD     equ $84
008D     50      RETURN    equ $8D
00FF     51      NEGONE    equ $FF
0800     52      ;
0028     53      LISA1PGS  equ $28
0010     54      LISA2PGS  equ $10
0800     55      ;
03EA     56      HOOKDOS   equ $3EA
0800     57      ;
1000     58      PAGE10    equ $1000
D000     59      PAGED0    equ $D000
F800     60      PAGEF8    equ $F800
```

```

0800          61      ;
9010          62      XFERSTRT equ $9010
0800          63      ;
C008          64      AUXZPOFF equ $C008
C009          65      AUXZPON  equ $C009
0800          66      ;
C080          67      RAM2WP   equ $C080
C081          68      ROM2WE   equ $C081
C082          69      ROM2WP   equ $C082
C083          70      RAM2WE   equ $C083
C08A          71      ROM1WP   equ $C08A
C08B          72      RAM1WE   equ $C08B
0800          73      ;
E000          74      COLDSTRT equ $E000
0800          75      ;
FB2F          76      INIT     equ $FB2F
FC58          77      HOME     equ $FC58
FDED          78      COUT     equ $FDED
FE84          79      SETNORM   equ $FE84
FE89          80      SETKBD    equ $FE89
FE93          81      SETVID    equ $FE93
0800          82      ;
0800          83      ;
0900          84              org $900
0900          85              obj $900
0900          86              usr
0900          87      ;
0900          88      ;
0900 20 58 FC   89              jsr HOME
0903 20 EA 03   90              jsr HOOKDOS
0906           91      ;
0906 A0 00      92              ldy #MSG1-MESGS
0908 20 B0 09   93              jsr PRTMSG
090B           94      ;
090B           95      ;
090B           96      ; Load LISA40.1 into Main memory, then copy to Auxiliary
090B           97      ; memory.
090B           98      ;
090B A0 22      99              ldy #MSG2-MESGS
090D 20 B0 09  100             jsr PRTMSG
0910           101     ;
0910 2C 8B C0   102             bit RAM1WE
0913 2C 8B C0   103             bit RAM1WE
0916           104     ;
0916 A2 28      105             ldx #LISA1PGS
0918 20 8A 09   106             jsr MOVELISA
091B           107     ;
091B           108     ;
091B           109     ; Copy Main memory ROM to Auxiliary memory RAM.
091B           110     ;
091B 8D 09 C0   111             sta AUXZPON
091E           112     ;
091E 2C 81 C0   113             bit ROM2WE
0921 2C 81 C0   114             bit ROM2WE
0924           115     ;
0924 A0 00      116             ldy #PAGEF8
0926 A2 F8      117             ldx /PAGEF8
0928           118     ;
0928 84 10      119             sty PTR1
092A           120     ;
092A 86 11      121     ^1      stx PTR1+1

```

```

092C          122 ;
092C B1 10     123 ^2      lda (PTR1),Y
092E 91 10     124      sta (PTR1),Y
0930          125 ;
0930 C8        126      iny
0931 D0 F9     127      bne <2
0933          128 ;
0933 E8        129      inx
0934 D0 F4     130      bne <1
0936          131 ;
0936 8D 08 C0  132      sta AUXZPOFF
0939          133 ;
0939 2C 8A C0  134      bit ROM1WP
093C          135 ;
093C          136 ;
093C          137 ; Load LISA40.2 into Main memory, then copy to Auxiliary
093C          138 ; memory.
093C          139 ;
093C A0 3B      140      ldy #MSG3-MESGS
093E 20 B0 09  141      jsr PRTMSG
0941          142 ;
0941 2C 83 C0  143      bit RAM2WE
0944 2C 83 C0  144      bit RAM2WE
0947          145 ;
0947 A2 10      146      ldx #LISA2PGS
0949 20 8A 09  147      jsr MOVELISA
094C          148 ;
094C          149 ;
094C          150 ; Load LISA40.3 into Main memory.
094C          151 ;
094C A0 54      152      ldy #MSG4-MESGS
094E 20 B0 09  153      jsr PRTMSG
0951          154 ;
0951 8D 08 C0  155      sta AUXZPOFF
0954          156 ;
0954 A9 00      157      lda #ZERO
0956 85 33      158      sta PROMPT
0958 85 76      159      sta ASRUN
095A 85 D8      160      sta ASONERR
095C          161 ;
095C          162 ;
095C          163 ; Get address in HOOKDOS and save to DOSHOOK.
095C          164 ;
095C AE EB 03   165      ldx HOOKDOS+1
095F AD EC 03   166      lda HOOKDOS+2
0962          167 ;
0962 8E 11 90   168      stx XFERSTRT+1
0965 8D 12 90   169      sta XFERSTRT+2
0968          170 ;
0968          171 ;
0968          172 ; Get address of XHOOKDOS and save to HOOKDOS.
0968          173 ;
0968 A2 13      174      ldx #XFERSTRT+3
096A A9 90      175      lda /XFERSTRT+3
096C          176 ;
096C 8E EB 03   177      stx HOOKDOS+1
096F 8D EC 03   178      sta HOOKDOS+2
0972          179 ;
0972 8D 09 C0   180      sta AUXZPON
0975          181 ;
0975 2C 82 C0   182      bit ROM2WP

```

```

0978          183 ;
0978 20 84 FE 184      jsr SETNORM
097B 20 2F FB 185      jsr INIT
097E 20 89 FE 186      jsr SETKBD
0981 20 93 FE 187      jsr SETVID
0984          188 ;
0984 2C 80 C0 189      bit RAM2WP
0987          190 ;
0987 4C 00 E0 191      jmp COLDSTRT
098A          192 ;
098A          193 ;
098A 8D 09 C0 194  MOVELISA sta AUXZPON
098D          195 ;
098D A0 00     196      ldy #PAGE10
098F 84 10     197      sty PTR1
0991 84 12     198      sty PTR2
0993          199 ;
0993 A9 10     200      lda /PAGE10
0995 85 11     201      sta PTR1+1
0997          202 ;
0997 A9 D0     203      lda /PAGED0
0999 85 13     204      sta PTR2+1
099B          205 ;
099B B1 10     206      ^1 lda (PTR1),Y
099D 91 12     207      sta (PTR2),Y
099F          208 ;
099F C8        209      iny
09A0 D0 F9     210      bne <1
09A2          211 ;
09A2 E6 11     212      inc PTR1+1
09A4 E6 13     213      inc PTR2+1
09A6          214 ;
09A6 CA        215      dex
09A7 D0 F2     216      bne <1
09A9          217 ;
09A9 8D 08 C0 218      sta AUXZPOFF
09AC          219 ;
09AC 2C 8A C0 220      bit ROM1WP
09AF          221 ;
09AF 60        222      rts
09B0          223 ;
09B0          224 ;
09B0 B9 BC 09 225  PRTMSG  lda MSGS,Y
09B3 F0 06     226      beq >1
09B5          227 ;
09B5 20 ED FD 228      jsr COUT
09B8          229 ;
09B8 C8        230      iny
09B9 D0 F5     231      bne PRTMSG
09BB          232 ;
09BB 60        233      ^1 rts
09BC          234 ;
09BC          235 ;
09BC          236  MSGS:
09BC          237 ;
09BC 8D        238  MSG1   byt RETURN
09BD CC EF E1 239      asc "Loading LISA40 with DOS 4.5.05L"
09C0 E4 E9 EE
09C3 E7 A0 CC
09C6 C9 D3 C1
09C9 B4 B0 A0

```

```

09CC F7 E9 F4
09CF E8 A0 C4
09D2 CF D3 A0
09D5 B4 AE B5
09D8 AE B0 B5
09DB CC
09DC 8D 00      240      byt RETURN,ZERO
09DE          241      ;
09DE 8D 84      242      MSG2      byt RETURN,CTRLD
09E0 C2 CC CF   243      asc  "BLOAD LISA40.1,A$1000"
09E3 C1 C4 A0
09E6 CC C9 D3
09E9 C1 B4 B0
09EC AE B1 AC
09EF C1 A4 B1
09F2 B0 B0 B0
09F5 8D 00      244      byt RETURN,ZERO
09F7          245      ;
09F7 8D 84      246      MSG3      byt RETURN,CTRLD
09F9 C2 CC CF   247      asc  "BLOAD LISA40.2,A$1000"
09FC C1 C4 A0
09FF CC C9 D3
0A02 C1 B4 B0
0A05 AE B2 AC
0A08 C1 A4 B1
0A0B B0 B0 B0
0A0E 8D 00      248      byt RETURN,ZERO
0A10          249      ;
0A10 8D 84      250      MSG4      byt RETURN,CTRLD
0A12 C2 CC CF   251      asc  "BLOAD LISA40.3,A$9010"
0A15 C1 C4 A0
0A18 CC C9 D3
0A1B C1 B4 B0
0A1E AE B3 AC
0A21 C1 A4 B9
0A24 B0 B1 B0
0A27          252      ;
0A27 8D 84      253      byt RETURN,CTRLD
0A29 CD C1 D8   254      asc  "MAXFILES 2"
0A2C C6 C9 CC
0A2F C5 D3 A0
0A32 B2
0A33 8D 84      255      byt RETURN,CTRLD
0A35 CD CF CE   256      asc  "MON C,I,O"
0A38 A0 C3 AC
0A3B C9 AC CF
0A3E 8D 00      257      byt RETURN,ZERO
0A40          258      ;
0A40          259      ;

```

BSAVE LOADLISA40,A\$0900,B,L\$0140

```

0A40          260      usr LOADLISA40
0A40          261      ;
0A40          262      ;
0A40          263      stt "LOADLISA40 Symbol Table"
0A40          264      ;
0A40          265      ;
0A40          266      end 111

```

*** End of Assembly

Symbol Table starts at 0x6000, ends at 0x6190, used 0x0190, remaining 0x2E60

Symbols unsorted:

PTR1	0010	PTR2	0012	PROMPT	0033	ASRUN	0076	ASONERR	00D8
ZERO	0000	CTRLD	0084	RETURN	008D	NEGONE	00FF	LISA1PGS	0028
LISA2PGS	0010	HOOKDOS	03EA	PAGE10	1000	PAGED0	D000	PAGEF8	F800
XFERSTR	9010	AUXZPOFF	C008	AUXZPON	C009	RAM2WP	C080	ROM2WE	C081
ROM2WP	C082	RAM2WE	C083	ROM1WP	C08A	RAM1WE	C08B	COLDSTR	E000
INIT	FB2F	HOME	FC58	COUT	FDED	SETNORM	FE84	SETKBD	FE89
SETVID	FE93	MOVELISA	098A	PRTMSG	09B0	MESGS	09BC	MESG1	09BC
MESG2	09DE	MESG3	09F7	MESG4	0A10				

Symbols alphabetically sorted:

ASONERR	00D8	ASRUN	0076	AUXZPOFF	C008	AUXZPON	C009	COLDSTR	E000
COUT	FDED	CTRLD	0084	HOME	FC58	HOOKDOS	03EA	INIT	FB2F
LISA1PGS	0028	LISA2PGS	0010	MESG1	09BC	MESG2	09DE	MESG3	09F7
MESG4	0A10	MESGS	09BC	MOVELISA	098A	NEGONE	00FF	PAGE10	1000
PAGED0	D000	PAGEF8	F800	PROMPT	0033	PRTMSG	09B0	PTR1	0010
PTR2	0012	RAM1WE	C08B	RAM2WE	C083	RAM2WP	C080	RETURN	008D
ROM1WP	C08A	ROM2WE	C081	ROM2WP	C082	SETKBD	FE89	SETNORM	FE84
SETVID	FE93	XFERSTR	9010	ZERO	0000				

Symbols numerically sorted:

ZERO	0000	PTR1	0010	LISA2PGS	0010	PTR2	0012	LISA1PGS	0028
PROMPT	0033	ASRUN	0076	CTRLD	0084	RETURN	008D	ASONERR	00D8
NEGONE	00FF	HOOKDOS	03EA	MOVELISA	098A	PRTMSG	09B0	MESGS	09BC
MESG1	09BC	MESG2	09DE	MESG3	09F7	MESG4	0A10	PAGE10	1000
XFERSTR	9010	AUXZPOFF	C008	AUXZPON	C009	RAM2WP	C080	ROM2WE	C081
ROM2WP	C082	RAM2WE	C083	ROM1WP	C08A	RAM1WE	C08B	PAGED0	D000
COLDSTR	E000	PAGEF8	F800	INIT	FB2F	HOME	FC58	COUT	FDED
SETNORM	FE84	SETKBD	FE89	SETVID	FE93				