

!A

*** End of Pass 1

*** End of Pass 2

```
0800      1          ttl "BIG MAC Loader Source Code, LOADMAC.L"
0800      2      ;
0800      3      ;
0800      4      ; LOADMAC.L
0800      5      ;
0800      6      ;
0800      7      ; BIG MAC Loader Source Code (EPROM)
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: 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      ;
0800     35      ; This program loads the DOS 4.5 version of Big Mac into
0800     36      ; Auxiliary memory. Big Mac also contains the interface
0800     37      ; routines for Big Mac and DOS 4.5.
0800     38      ;
0800     39      ;
0010     40      PTR1      epz $10
0012     41      PTR2      epz $12
0033     42      PROMPT    epz $33
0073     43      HIMEM     epz $73
0076     44      ASRUN     epz $76
00D8     45      ASONERR   epz $D8
0800     46      ;
0800     47      ;          enz
0800     48      ;
0000     49      ZERO      equ $00
0087     50      BELL      equ $87
008D     51      RETURN    equ $8D
00FF     52      NEGONE    equ $FF
0800     53      ;
0001     54      LOADCMD    equ $01
0070     55      SRCHALL    equ $70
0800     56      ;
0002     57      XFERPGS    equ $02
0028     58      PGMPGS    equ $28
0800     59      ;
03D0     60      DOSWARM    equ $3D0
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03EA      61  HOOKDOS    equ  $3EA
0800      62  ;
10B0      63  MEMSRC    equ  $10B0
BC70      64  XFERSTRT  equ  $BC70
BC70      65  REENTRY   equ  XFERSTRT
0800      66  ;
F800      67  PAGEF8    equ  $F800
0800      68  ;
BFF6      69  MNGUSER   equ  $BFF6
0800      70  ;
C008      71  AUXZPOFF  equ  $C008
C009      72  AUXZPON   equ  $C009
0800      73  ;
C080      74  RAM2WP    equ  $C080
C081      75  ROM2WE    equ  $C081
C082      76  ROM2WP    equ  $C082
C083      77  RAM2WE    equ  $C083
0800      78  ;
D080      79  MEMDST    equ  $D080
0800      80  ;
E000      81  BASCOLD   equ  $E000
E003      82  BASWARM   equ  $E003
0800      83  ;
FB2F      84  INIT      equ  $FB2F
FC58      85  HOME      equ  $FC58
FD8E      86  CROUT     equ  $FD8E
FD8E      87  PRBYTE    equ  $FD8E
FD8E      88  COUT      equ  $FD8E
FE84      89  SETNORM   equ  $FE84
FE89      90  SETKBD    equ  $FE89
FE93      91  SETVID    equ  $FE93
0800      92  ;
0800      93  ;
0900      94          org  $900
0900      95          obj  $900
0900      96          usr
0900      97  ;
0900      98  ;
0900      99  ; QL puts address of QLBINEOS in Y and A registers.
0900     100  ;
0900 8C D4 09 101          sty  QLBINJMP+1
0903 8D D5 09 102          sta  QLBINJMP+2
0906     103  ;
0906 20 58 FC 104          jsr  HOME
0909 20 EA 03 105          jsr  HOOKDOS
090C     106  ;
090C     107  ;
090C     108  ; Load Big Mac into Main memory, then copy to Auxiliary
090C     109  ; memory.
090C     110  ;
090C A0 D6   111          ldy  #EOSDCB
090E A9 09   112          lda  /EOSDCB
0910     113  ;
0910 20 D3 09 114          jsr  QLBINJMP
0913     115  ;
0913 AD DA 09 116          lda  DCBSTAT
0916 F0 03   117          beq  >1
0918     118  ;
0918 4C B3 09 119          jmp  ERROR
091B     120  ;
091B 2C 83 C0 121  ^1      bit  RAM2WE

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091E 2C 83 C0    122          bit RAM2WE
0921             123      ;
0921 8D 09 C0    124          sta AUXZPON
0924             125      ;
0924 A9 00       126          lda #ZERO
0926 85 10       127          sta PTR1
0928 85 12       128          sta PTR2
092A             129      ;
092A A9 10       130          lda /MEMSRC
092C 85 11       131          sta PTR1+1
092E             132      ;
092E A9 D0       133          lda /MEMDST
0930 85 13       134          sta PTR2+1
0932             135      ;
0932 A2 28       136          ldx #PGMPGS
0934 A0 B0       137          ldy #MEMSRC
0936             138      ;
0936 B1 10       139      ^2    lda (PTR1),Y
0938 91 12       140          sta (PTR2),Y
093A             141      ;
093A C8          142          iny
093B D0 F9       143          bne <2
093D             144      ;
093D E6 11       145          inc PTR1+1
093F E6 13       146          inc PTR2+1
0941             147      ;
0941 CA          148          dex
0942 D0 F2       149          bne <2
0944             150      ;
0944 2C 82 C0    151          bit ROM2WP
0947             152      ;
0947             153      ;
0947             154      ; Load XFER into Main memory.
0947             155      ;
0947 A9 BC       156          lda /XFERSTRT
0949 85 13       157          sta PTR2+1
094B             158      ;
094B A2 02       159          ldx #XFERPGS
094D             160      ;
094D B1 10       161      ^3    lda (PTR1),Y
094F 91 12       162          sta (PTR2),Y
0951             163      ;
0951 C8          164          iny
0952 D0 F9       165          bne <3
0954             166      ;
0954 E6 11       167          inc PTR1+1
0956 E6 13       168          inc PTR2+1
0958             169      ;
0958 CA          170          dex
0959 D0 F2       171          bne <3
095B             172      ;
095B             173      ;
095B             174      ; Copy Main memory ROM to Auxiliary memory RAM.
095B             175      ;
095B 8D 09 C0    176          sta AUXZPON
095E             177      ;
095E 2C 81 C0    178          bit ROM2WE
0961 2C 81 C0    179          bit ROM2WE
0964             180      ;
0964 A0 00       181          ldy #PAGEF8
0966 A2 F8       182          ldx /PAGEF8

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0968      183 ;
0968 84 10 184      sty PTR1
096A      185 ;
096A 86 11 186      ^4      stx PTR1+1
096C      187 ;
096C B1 10 188      ^5      lda (PTR1),Y
096E 91 10 189      sta (PTR1),Y
0970      190 ;
0970 C8      191      iny
0971 D0 F9 192      bne <5
0973      193 ;
0973 E8      194      inx
0974 D0 F4 195      bne <4
0976      196 ;
0976 8D 08 C0 197      sta AUXZPOFF
0979      198 ;
0979 2C 82 C0 199      bit ROM2WP
097C      200 ;
097C      201 ;
097C      202 ; Initialize Main memory.
097C      203 ;
097C 84 33 204      sty PROMPT
097E 84 76 205      sty ASRUN
0980      206 ;
0980 88      207      dey
0981      208 ;
0981 84 D8 209      sty ASONERR
0983      210 ;
0983 A0 70 211      ldy #REENTRY
0985 A9 BC 212      lda /REENTRY
0987      213 ;
0987 38      214      sec
0988      215 ;
0988 20 B0 09 216      jsr SETUSER
098B      217 ;
098B A9 70 218      lda #XFERSTRT
098D 85 73 219      sta HIMEM
098F      220 ;
098F A9 BC 221      lda /XFERSTRT
0991 85 74 222      sta HIMEM+1
0993      223 ;
0993      224 ;
0993      225 ; Initialize Auxiliary memory.
0993      226 ;
0993 8D 09 C0 227      sta AUXZPON
0996      228 ;
0996 20 84 FE 229      jsr SETNORM
0999 20 2F FB 230      jsr INIT
099C 20 93 FE 231      jsr SETVID
099F 20 89 FE 232      jsr SETKBD
09A2      233 ;
09A2 A9 70 234      lda #XFERSTRT
09A4 85 73 235      sta HIMEM
09A6      236 ;
09A6 A9 BC 237      lda /XFERSTRT
09A8 85 74 238      sta HIMEM+1
09AA      239 ;
09AA      240 ;
09AA      241 ; Enter Big Mac.
09AA      242 ;
09AA 2C 80 C0 243      bit RAM2WP

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09AD      244 ;
09AD 4C 03 E0 245      jmp BASWARM
09B0      246 ;
09B0      247 ;
09B0 6C F6 BF 248 SETUSER jmp (MNGUSER)
09B3      249 ;
09B3      250 ;
09B3 A0 00 251 ERROR ldy #MESG1-MESGS
09B5 20 C7 09 252      jsr PRTMESG
09B8      253 ;
09B8 AD DA 09 254      lda DCBSTAT
09BB 20 DA FD 255      jsr PRBYTE
09BE      256 ;
09BE 20 8E FD 257      jsr CROUT
09C1 20 8E FD 258      jsr CROUT
09C4      259 ;
09C4 4C D0 03 260      jmp DOSWARM
09C7      261 ;
09C7      262 ;
09C7 B9 E4 09 263 PRTMESG lda MESGS,Y
09CA F0 06 264      beq >1
09CC      265 ;
09CC 20 ED FD 266      jsr COUT
09CF      267 ;
09CF C8 268      iny
09D0 D0 F5 269      bne PRTMESG
09D2      270 ;
09D2 60 271      ^1 rts
09D3      272 ;
09D3      273 ;
09D3 4C 00 00 274 QLBINJMP jmp *-* ; QLBINEOS
09D6      275 ;
09D6      276 ;
09D6      277 EOSDCB:
09D6      278 ;
09D6 01 279 DCBCMD byt LOADCMD
09D7 70 280 DCBEP byt SRCHALL
09D8 00 00 281 DCBALT adr *-* ; MEMSRC
09DA FF 282 DCBSTAT byt NEGONE
09DB 06 283 DCBLEN byt FILELEN
09DC DE 09 284 DCBADR adr FILENAM
09DE      285 ;
09DE C2 E9 E7 286 FILENAM asc "BigMac"
09E1 CD E1 E3
0006      287 FILELEN equ *-FILENAM
09E4      288 ;
09E4      289 ;
09E4      290 MESGS:
09E4      291 ;
09E4 8D 87 8D 292 MSG1 byt RETURN,BELL,RETURN
09E7 D5 EE E1 293      asc "Unable to load BIGMAC DCB."
09EA E2 EC E5
09ED A0 F4 EF
09F0 A0 EC EF
09F3 E1 E4 A0
09F6 C2 C9 C7
09F9 CD C1 C3
09FC A0 C4 C3
09FF C2 AE
0A01 8D 8D 294      byt RETURN,RETURN
0A03 A0 A0 A0 295      asc " DCB returned error 0x"

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0A06 A0 C4 C3
0A09 C2 A0 F2
0A0C E5 F4 F5
0A0F F2 EE E5
0A12 E4 A0 E5
0A15 F2 F2 EF
0A18 F2 A0 B0
0A1B F8
0A1C 00          296          byt ZERO
0A1D          297 ;
0A1D          298 ;

BSAVE LOADMAC,D1,A$0900,B,L$011D

0A1D          299          usr LOADMAC,D1
0A1D          300 ;
0A1D          301 ;
CD D2

0A1D          302          dcm "CD D2"
0A1D          303 ;
0A1D          304 ;
0A1D          305          stt "LOADMAC Symbol Table"
0A1D          306 ;
0A1D          307 ;
0A1D          308          end 111

*** End of Assembly
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Symbol List starts at 0x7800, ends at 0x7A26, used 0x0226, remaining 0x3D72

Symbols unsorted:

PTR1	0010	PTR2	0012	PROMPT	0033	HIMEM	0073	ASRUN	0076
ASONERR	00D8	ZERO	0000	BELL	0087	RETURN	008D	NEGONE	00FF
LOADCMD	0001	SRCHALL	0070	XFERPGS	0002	PGMPGS	0028	DOSWARM	03D0
HOOKDOS	03EA	MEMSRC	10B0	XFERSTRT	BC70	REENTRY	BC70	PAGEF8	F800
MNGUSER	BFF6	AUXZPOFF	C008	AUXZPON	C009	RAM2WP	C080	ROM2WE	C081
ROM2WP	C082	RAM2WE	C083	MEMDST	D080	BASCOLD	E000	BASWARM	E003
INIT	FB2F	HOME	FC58	CROUT	FD8E	PRBYTE	FDDA	COUT	FDDED
SETNORM	FE84	SETKBD	FE89	SETVID	FE93	SETUSER	09B0	ERROR	09B3
PRTMSG	09C7	QLBINJMP	09D3	EOSDCB	09D6	DCBCMD	09D6	DCBEP	09D7
DCBALT	09D8	DCBSTAT	09DA	DCBLEN	09DB	DCBADR	09DC	FILENAM	09DE
FILELEN	0006	MESGS	09E4	MESG1	09E4				

Symbols alphabetically sorted:

ASONERR	00D8	ASRUN	0076	AUXZPOFF	C008	AUXZPON	C009	BASCOLD	E000
BASWARM	E003	BELL	0087	COUT	FDDED	CROUT	FD8E	DCBADR	09DC
DCBALT	09D8	DCBCMD	09D6	DCBEP	09D7	DCBLEN	09DB	DCBSTAT	09DA
DOSWARM	03D0	EOSDCB	09D6	ERROR	09B3	FILELEN	0006	FILENAM	09DE
HIMEM	0073	HOME	FC58	HOOKDOS	03EA	INIT	FB2F	LOADCMD	0001
MEMDST	D080	MEMSRC	10B0	MESG1	09E4	MESGS	09E4	MNGUSER	BFF6
NEGONE	00FF	PAGEF8	F800	PGMPGS	0028	PRBYTE	FDDA	PROMPT	0033
PRTMSG	09C7	PTR1	0010	PTR2	0012	QLBINJMP	09D3	RAM2WE	C083
RAM2WP	C080	REENTRY	BC70	RETURN	008D	ROM2WE	C081	ROM2WP	C082
SETKBD	FE89	SETNORM	FE84	SETUSER	09B0	SETVID	FE93	SRCHALL	0070
XFERPGS	0002	XFERSTRT	BC70	ZERO	0000				

Symbols numerically sorted:

ZERO	0000	LOADCMD	0001	XFERPGS	0002	FILELEN	0006	PTR1	0010
PTR2	0012	PGMPGS	0028	PROMPT	0033	SRCHALL	0070	HIMEM	0073
ASRUN	0076	BELL	0087	RETURN	008D	ASONERR	00D8	NEGONE	00FF
DOSWARM	03D0	HOOKDOS	03EA	SETUSER	09B0	ERROR	09B3	PRTMSG	09C7
QLBINJMP	09D3	EOSDCB	09D6	DCBCMD	09D6	DCBEP	09D7	DCBALT	09D8
DCBSTAT	09DA	DCBLEN	09DB	DCBADR	09DC	FILENAM	09DE	MESGS	09E4
MESG1	09E4	MEMSRC	10B0	XFERSTRT	BC70	REENTRY	BC70	MNGUSER	BFF6
AUXZPOFF	C008	AUXZPON	C009	RAM2WP	C080	ROM2WE	C081	ROM2WP	C082
RAM2WE	C083	MEMDST	D080	BASCOLD	E000	BASWARM	E003	PAGEF8	F800
INIT	FB2F	HOME	FC58	CROUT	FD8E	PRBYTE	FDDA	COUT	FDDED
SETNORM	FE84	SETKBD	FE89	SETVID	FE93				