

!A

*** End of Pass 1

*** End of Pass 2

```

0800          1          ttl "Manage USER, MNGUSER2.L"
0800          2          ;
0800          3          ;
0800          4          ; MNGUSER2.L
0800          5          ;
0800          6          ;
00EE          7  PTR      epz  $EE
0800          8          ;
0800          9          enz
0800         10          ;
0000         11  ZERO     equ  $00
008D         12  RETURN   equ  $8D
00FF         13  NEGONE   equ  $FF
0800         14          ;
0008         15  USEROFF equ  $08
000A         16  CMDOFF   equ  $0A
0800         17          ;
03EA         18  HOOKDOS  equ  $3EA
0800         19          ;
BFF6         20  MNGUSER  equ  $BFF6
BFFA         21  INITVAL  equ  $BFFA
0800         22          ;
C000         23  KEY      equ  $C000
C010         24  CLRKEY   equ  $C010
0800         25          ;
F941         26  PRNTAX   equ  $F941
FD8E         27  CROUT    equ  $FD8E
FDDA         28  PRBYTE   equ  $FDDA
FDED         29  COUT     equ  $FDED
0800         30          ;
0800         31          ;
4000         32          org  $4000
4000         33          obj  $900
4000         34          usr
4000         35          ;
4000         36          ;
4000 20 EA 03 37          jsr  HOOKDOS
4003         38          ;
4003 20 0D 40 39          jsr  SHOWUSER
4006         40          ;
4006 20 2F 40 41          jsr  WRITUSER
4009         42          ;
4009 20 0D 40 43          jsr  SHOWUSER
400C         44          ;
400C 60       45          rts
400D         46          ;
400D         47          ;
400D A0 00    48  SHOWUSER ldy  #MSG1-MESGS
400F 20 79 40 49          jsr  PRTMSG
4012         50          ;
4012 A0 0A    51          ldy  #CMDOFF
4014 20 92 40 52          jsr  GETINIT
4017         53          ;
4017 8A       54          txa
4018         55          ;
4018 20 DA FD 56          jsr  PRBYTE
401B         57          ;
401B A0 2F    58          ldy  #MSG2-MESGS
401D 20 79 40 59          jsr  PRTMSG
4020         60          ;

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4020 A0 08      61      ldy #USEROFF
4022 20 92 40   62      jsr GETINIT
4025           63      ;
4025 20 41 F9   64      jsr PRNTAX
4028           65      ;
4028 20 8E FD   66      jsr CROUT
402B 20 8E FD   67      jsr CROUT
402E           68      ;
402E 60        69      rts
402F           70      ;
402F           71      ;
402F A0 3D      72 WRITUSER ldy #MSG3-MESGS
4031 20 79 40   73      jsr PRTMSG
4034           74      ;
4034 A0 4D      75      ldy #USERPGM
4036 A9 40      76      lda /USERPGM
4038           77      ;
4038 20 A4 40   78      jsr SETUSER
403B           79      ;
403B 60        80      rts
403C           81      ;
403C           82      ;
403C A0 5E      83 INITUSER ldy #MSG4-MESGS
403E 20 79 40   84      jsr PRTMSG
4041           85      ;
4041 20 A6 40   86      jsr CLRUSER
4044 20 0D 40   87      jsr SHOWUSER
4047           88      ;
4047 A0 81      89      ldy #MSG5-MESGS
4049 20 79 40   90      jsr PRTMSG
404C           91      ;
404C 60        92      rts
404D           93      ;
404D           94      ;
404D 8E AA 40   95 USERPGM stx VALUE
4050 8D AB 40   96      sta VALUE+1
4053           97      ;
4053 A0 9F      98      ldy #MSG6-MESGS
4055 20 79 40   99      jsr PRTMSG
4058           100     ;
4058 AE AA 40   101     ldx VALUE
405B AD AB 40   102     lda VALUE+1
405E           103     ;
405E 20 41 F9   104     jsr PRNTAX
4061           105     ;
4061 20 8E FD   106     jsr CROUT
4064 20 8E FD   107     jsr CROUT
4067           108     ;
4067 AE AA 40   109     ldx VALUE
406A E0 FF      110     cpx #NEGONE
406C D0 0A      111     bne >1
406E           112     ;
406E AD AB 40   113     lda VALUE+1
4071 C9 FF      114     cmp #NEGONE
4073 D0 03      115     bne >1
4075           116     ;
4075 20 3C 40   117     jsr INITUSER
4078           118     ;
4078 60        119     ^1 rts
4079           120     ;
4079           121     ;

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4079 B9 AC 40      122  PRTMSG   lda MESSAGES,Y
407C F0 06        123          beq >1
407E              124  ;
407E 20 ED FD      125          jsr COUT
4081              126  ;
4081 C8            127          iny
4082 D0 F5         128          bne PRTMSG
4084              129  ;
4084 60            130  ^1      rts
4085              131  ;
4085              132  ;
4085 2C 10 C0       133  GETKEY   bit CLRKEY
4088              134  ;
4088 AD 00 C0       135  ^1      lda KEY
408B              136  ;
408B EA           137          nop
408C              138  ;
408C 10 FA         139          bpl <1
408E              140  ;
408E 2C 10 C0       141          bit CLRKEY
4091              142  ;
4091 60            143          rts
4092              144  ;
4092              145  ;
4092 AD FA BF       146  GETINIT  lda INITVAL
4095 85 EE          147          sta PTR
4097              148  ;
4097 AD FB BF       149          lda INITVAL+1
409A 85 EF          150          sta PTR+1
409C              151  ;
409C B1 EE          152          lda (PTR),Y
409E AA            153          tax
409F              154  ;
409F E6 EE          155          inc PTR
40A1              156  ;
40A1 B1 EE          157          lda (PTR),Y
40A3              158  ;
40A3 60            159          rts
40A4              160  ;
40A4              161  ;
40A4 38            162  SETUSER  sec
40A5              163  ;
40A5 90 00          164          bcc *+2
40A7              165          dfs !-1
40A6              166  ;
40A6 18            167  CLRUSER  clc
40A7              168  ;
40A7 6C F6 BF       169          jmp (MNGUSER)
40AA              170  ;
40AA              171  ;
40AA              172  VALUE    dfs 2,ZERO
40AC              173  ;
40AC              174  ;
40AC              175  MESSAGES:
40AC              176  ;
40AC 8D 8D          177  MSG1     byt RETURN,RETURN
40AE C3 EF EE       178          asc "Contents of CMDVAL and USERADR:"
40B1 F4 E5 EE
40B4 F4 F3 A0
40B7 EF E6 A0
40BA C3 CD C4

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```
40BD D6 C1 CC
40C0 A0 E1 EE
40C3 E4 A0 D5
40C6 D3 C5 D2
40C9 C1 C4 D2
40CC BA
40CD 8D 8D      179      byt RETURN,RETURN
40CF C3 CD C4   180      asc "CMDVAL = 0x"
40D2 D6 C1 CC
40D5 A0 BD A0
40D8 B0 F8
40DA 00          181      byt ZERO
40DB            182      ;
40DB 8D          183      MSG2    byt RETURN
40DC D5 D3 C5   184      asc "USERADR = 0x"
40DF D2 C1 C4
40E2 D2 A0 BD
40E5 A0 B0 F8
40E8 00          185      byt ZERO
40E9            186      ;
40E9 8D          187      MSG3    byt RETURN
40EA D7 F2 E9   188      asc "Writing to CMDVAL and USERADR."
40ED F4 E9 EE
40F0 E7 A0 F4
40F3 EF A0 C3
40F6 CD C4 D6
40F9 C1 CC A0
40FC E1 EE E4
40FF A0 D5 D3
4102 C5 D2 C1
4105 C4 D2 AE
4108 8D 00      189      byt RETURN,ZERO
410A            190      ;
410A 8D          191      MSG4    byt RETURN
410B C9 EE E9   192      asc "Initializing CMDVAL and USERADR."
410E F4 E9 E1
4111 EC E9 FA
4114 E9 EE E7
4117 A0 C3 CD
411A C4 D6 C1
411D CC A0 E1
4120 EE E4 A0
4123 D5 D3 C5
4126 D2 C1 C4
4129 D2 AE
412B 8D 00      193      byt RETURN,ZERO
412D            194      ;
412D 8D          195      MSG5    byt RETURN
412E CD E1 EE   196      asc "Manage MNGUSER2 completed."
4131 E1 E7 E5
4134 A0 CD CE
4137 C7 D5 D3
413A C5 D2 B2
413D A0 E3 EF
4140 ED F0 EC
4143 E5 F4 E5
4146 E4 AE
4148 8D 8D 00   197      byt RETURN,RETURN,ZERO
414B            198      ;
414B 8D          199      MSG6    byt RETURN
414C C5 EE F4   200      asc "Entered USER function, value = 0x"
```

```
414F E5 F2 E5
4152 E4 A0 D5
4155 D3 C5 D2
4158 A0 E6 F5
415B EE E3 F4
415E E9 EF EE
4161 AC A0 F6
4164 E1 EC F5
4167 E5 A0 BD
416A A0 B0 F8
416D 00          201          byt ZERO
416E             202 ;
416E             203 ;

BSAVE MNGUSER2,A$0900,B,L$016E

416E             204          usr MNGUSER2
416E             205 ;
416E             206 ;
416E             207          end 111

*** End of Assembly
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Symbol List starts at 0x7800, ends at 0x7954, used 0x0154, remaining 0x3EA0

Symbols unsorted:

PTR	00EE	ZERO	0000	RETURN	008D	NEGONE	00FF	USEROFF	0008
CMDOFF	000A	HOOKDOS	03EA	MNGUSER	BFF6	INITVAL	BFFA	KEY	C000
CLRKEY	C010	PRNTAX	F941	CROUT	FD8E	PRBYTE	FDDA	COUT	FDED
SHOWUSER	400D	WRITUSER	402F	INITUSER	403C	USERPGM	404D	PRTMSG	4079
GETKEY	4085	GETINIT	4092	SETUSER	40A4	CLRUSER	40A6	VALUE	40AA
MESGS	40AC	MSG1	40AC	MSG2	40DB	MSG3	40E9	MSG4	410A
MESG5	412D	MSG6	414B						

Symbols alphabetically sorted:

CLRKEY	C010	CLRUSER	40A6	CMDOFF	000A	COUT	FDED	CROUT	FD8E
GETINIT	4092	GETKEY	4085	HOOKDOS	03EA	INITUSER	403C	INITVAL	BFFA
KEY	C000	MSG1	40AC	MSG2	40DB	MSG3	40E9	MSG4	410A
MESG5	412D	MSG6	414B	MESGS	40AC	MNGUSER	BFF6	NEGONE	00FF
PRBYTE	FDDA	PRNTAX	F941	PRTMSG	4079	PTR	00EE	RETURN	008D
SETUSER	40A4	SHOWUSER	400D	USEROFF	0008	USERPGM	404D	VALUE	40AA
WRITUSER	402F	ZERO	0000						

Symbols numerically sorted:

ZERO	0000	USEROFF	0008	CMDOFF	000A	RETURN	008D	PTR	00EE
NEGONE	00FF	HOOKDOS	03EA	SHOWUSER	400D	WRITUSER	402F	INITUSER	403C
USERPGM	404D	PRTMSG	4079	GETKEY	4085	GETINIT	4092	SETUSER	40A4
CLRUSER	40A6	VALUE	40AA	MESGS	40AC	MSG1	40AC	MSG2	40DB
MSG3	40E9	MSG4	410A	MSG5	412D	MSG6	414B	MNGUSER	BFF6
INITVAL	BFFA	KEY	C000	CLRKEY	C010	PRNTAX	F941	CROUT	FD8E
PRBYTE	FDDA	COUT	FDED						