

```

MMM                MMM                AAAAAAAAAA                IIIIIIIIIII                LLL
MMM                MMM                AAAAAAAAAA                IIIIIIIIIII                LLL
MMM                MMM                AAAAAAAAAA                IIIIIIIIIII                LLL
MMMMMMMM          MMMMMMM          AAA                AAA                III                LLL
MMMMMMMM          MMMMMMM          AAA                AAA                III                LLL
MMMMMMMM          MMMMMMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAAAAAAAAAAAAAAAAA                III                LLL
MMM              MMM              MMM          AAAAAAAAAAAAAAAAAA                III                LLL
MMM              MMM              MMM          AAAAAAAAAAAAAAAAAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                III                LLL
MMM              MMM              MMM          AAA                AAA                IIIIIIIIIII                LLLLLLLLLLLLLLLLLLL
MMM              MMM              MMM          AAA                AAA                IIIIIIIIIII                LLLLLLLLLLLLLLLLLLL
MMM              MMM              MMM          AAA                AAA                IIIIIIIIIII                LLLLLLLLLLLLLLLLLLL

```

MA
VO

```

      AAAAAA      DDDDDDDD      DDDDDDDD      RRRRRRRR      LL      IIIIII      SSSSSSSS      TTTTTTTTTT
      AAAAAA      DDDDDDDD      DDDDDDDD      RRRRRRRR      LL      IIIIII      SSSSSSSS      TTTTTTTTTT
AA      AA      DD      DD      DD      DD      RR      RR      LL      II      SS      TT
AA      AA      DD      DD      DD      DD      RR      RR      LL      II      SS      TT
AA      AA      DD      DD      DD      DD      RR      RR      LL      II      SS      TT
AA      AA      DD      DD      DD      DD      RR      RR      LL      II      SS      TT
AA      AA      DD      DD      DD      DD      RRRRRRRR      LL      II      SSSSSS      TT
AA      AA      DD      DD      DD      DD      RRRRRRRR      LL      II      SSSSSS      TT
AAAAAAAAAA      DD      DD      DD      DD      RR      RR      LL      II      SS      TT
AAAAAAAAAA      DD      DD      DD      DD      RR      RR      LL      II      SS      TT
AA      AA      DD      DD      DD      DD      RR      RR      LL      II      SS      TT
AA      AA      DD      DD      DD      DD      RR      RR      LL      II      SS      TT
AA      AA      DDDDDDDD      DDDDDDDD      RR      RR      LLLLLLLLLL      IIIIII      SSSSSSSS      TT
AA      AA      DDDDDDDD      DDDDDDDD      RR      RR      LLLLLLLLLL      IIIIII      SSSSSSSS      TT
      ...
      ...
      ...
      ...

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```


(2)	105	DECLARATIONS
(3)	179	ADD ADDRESSEE TO ADDRESSEE LIST
(4)	321	ADDRESSEE PARSING STATE TABLE
(5)	526	STORE_PROTOCOL - STORE PROTOCOL NAME IN TPA BLOCK EXTENSION
(6)	625	ENTER_ADDR - ENTER ADDRESSEE IN ADDRESSEE LIST
(7)	916	GET_DIST_LIST - GET DISTRIBUTION LIST
(8)	1030	MAIL\$ANY_ADDRESSEES - SEE IF ANY ADDRESSEES FOUND
(9)	1064	INITIALIZE ADDRESSEE LIST

```
0000 1 .TITLE MAIL$ADDRLIST ADDRESSEE LIST ROUTINES
0000 2 .IDENT 'V04-000'
0000 3 :
0000 4 :*****
0000 5 :
0000 6 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 7 :* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 8 :* ALL RIGHTS RESERVED.
0000 9 :*
0000 10 :* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 11 :* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 12 :* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 13 :* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 14 :* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 15 :* TRANSFERRED.
0000 16 :*
0000 17 :* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 18 :* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 19 :* CORPORATION.
0000 20 :*
0000 21 :* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 22 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 23 :*
0000 24 :*
0000 25 :*****
0000 26 :
0000 27 :
0000 28 :++
0000 29 : FACILITY: VAX/VMS MAIL UTILITY
0000 30 :
0000 31 : ABSTRACT: ADDRESSEE LIST ROUTINES
0000 32 :
0000 33 :
0000 34 : ENVIRONMENT: NATIVE/USER MODE
0000 35 :
0000 36 : AUTHOR: LEN KAWELL, CREATION DATE: 22-NOV-78
0000 37 :
0000 38 : MODIFICATION HISTORY:
0000 39 :
0000 40 : V03-015 BLS0340 Benn Schreiber 10-AUG-1984
0000 41 : Correct handling of alternate protocol if nodename
0000 42 : specified.
0000 43 :
0000 44 : V03-014 ROP0002 Robert Posniak 30-MAY-1984
0000 45 : Check for prot%'quoted@gibberish'. Strip
0000 46 : quotes from gibberish.
0000 47 :
0000 48 : V03-013 BLS0310 Benn Schreiber 27-APR-1984
0000 49 : Check for blank line before checking comment in
0000 50 : address list parsing.
0000 51 :
0000 52 : V03-012 BLS0292 Benn Schreiber 30-MAR-1984
0000 53 : Correct call to free_vm to only pass two args.
0000 54 :
0000 55 : V03-011 BLS0263 Benn Schreiber 22-Jan-1984
0000 56 : Honor terminal logical name attribute. Remove resultant
0000 57 : file spec substitution. Too much work required to make
```



```
0000 58 : it work right now.
0000 59 :
0000 60 : V03-010 BLS0261 Benn Schreiber 17-Jan-1984
0000 61 : Correct references to uaf$b_flags and uaf$v_disnewmail
0000 62 :
0000 63 : V03-009 BLS0255 Benn Schreiber 28-Dec-1983
0000 64 : Substitute resultant dist. file spec if only item in
0000 65 : the list. Correct errors when protocol spec used.
0000 66 : Add call to see if addressee already in the list.
0000 67 :
0000 68 : V03-008 BLS0246 Benn Schreiber 28-Nov-1983
0000 69 : Fix loop detection counter reset. Add call to see if
0000 70 : destination node is in current cluster and skip network
0000 71 : setup if so.
0000 72 :
0000 73 : V03-007 BLS0235 Benn Schreiber 23-Aug-1983
0000 74 : Standardize file error reporting in distribution list handling.
0000 75 : Fix reference to UAF buffer. Catch more junky addressee specs
0000 76 : at parse time.
0000 77 :
0000 78 : V03-006 BLS0222 Benn Schreiber 15-May-1983
0000 79 : Ignore blank lines in addressee lists
0000 80 :
0000 81 : V03-005 BLS0214 Benn Schreiber 27-Mar-1983
0000 82 : Enhance error detection. Correct stack offset in
0000 83 : distribution list handling. Set SQ0 when reading
0000 84 : distribution list.
0000 85 :
0000 86 : V03-004 BLS0211 Benn Schreiber 13-Mar-1983
0000 87 : Extensive rework for optional protocol spec and multi-threaded
0000 88 : server
0000 89 :
0000 90 : V03-003 BLS0184 Benn Schreiber 24-Sep-1982
0000 91 : If addressee is on same node, skip setting up logical
0000 92 : link. This can be forced by using "__node" to use decnet
0000 93 :
0000 94 : V03-002 BLS0179 Benn Schreiber 25-Jul-1982
0000 95 : Allow hyphens in user names.
0000 96 :
0000 97 : V03-001 BLS0177 Benn Schreiber 22-Jun-1982
0000 98 : Allow periods in user names. Check for recursive logical name
0000 99 : translation loop that does not terminate. Implement the mail
0000 100 : disabled flag (UAF$V_DISMAIL in the UAF record). Implement
0000 101 : MAIL logical names (honor forwarding address in
0000 102 : SYS$SYSTEM:VMSMAIL.DAT)
0000 103 :--
```

```
0000 105 .SBTTL DECLARATIONS
0000 106 :
0000 107 : INCLUDE FILES:
0000 108 :
0000 109 :
0000 110 :
0000 111 : MACROS:
0000 112 :
0000 113 :
0000 114 :
0000 115 : EQUATED SYMBOLS:
0000 116 :
0000 117 :
00000004 0000 118 ADDR = 4 ;ADDRESSEE NAME DESC ADDR ARG
00000004 0000 119 FAB = 4 ;MESSAGE FILE FAB ADDR ARG
00000008 0000 120 RAB = 8 ;MESSAGE FILE RAB ADDR ARG
0000 121 :
0000002C 0000 122 COMMA = 44 ;ASCII COMMA
00000020 0000 123 CH_SPACE = ^A/ /
00000009 0000 124 CH_TAB = ^A/ /
000000FF 0000 125 MAIL$K_INBUFSZ = 255 ;INPUT BUFFER SIZE
0000 126 :
0000 127 $SCHFDEF ;CONDITION HANDLER DEFINITIONS
0000 128 $FABDEF ;FILE ACCESS BLOCK DEFINITIONS
0000 129 $LNMDDEF ;LOGICAL NAME DEFINITIONS
0000 130 $MAILMSGDEF ;MAIL MESSAGES
0000 131 $NAMDEF ;NAM BLOCK DEFINITIONS
0000 132 $RABDEF ;RECORD ACCESS BLOCK DEFINITIONS
0000 133 $STSDEF ;STATUS CODE DEFINITIONS
0000 134 $TPADEF ;TPARSE DEFINITIONS
0000 135 ADRDEF ;ADDRESSEE LIST DESCRIPTORS
0000 136 CNCTDEF ;CONNECT BLOCK OFFSETS
0000 137 LNKDEF ;LOGICAL LINK BLOCK OFFSETS
0000 138 MAIFDEF ;DEFINE MAIL GLOBAL FLAGS
0000 139 VMDDEF ;VMS MAIL FILE OFFSETS
0000 140 :
0000 141 :
0000 142 : DEFINE LOCAL NAMES FOR SHARED MESSAGES
0000 143 :
0000 144 $SHR_MSGDEF MAIL,126,LOCAL,<<READERR,ERROR>,<OPENIN,ERROR>>
0000 145 :
0000 146 :
0000 147 : DEFINE EXTENSION TO THE TPARSE BLOCK
0000 148 :
00000024 0000 149 TPA_L_LCOUNT = TPA$L_PARAM+4 ;LOOP COUNT
00000028 0000 150 TPA_Q_ONAME = TPA_L_LCOUNT+4 ;DESCRIPTOR OF ORIGINAL NAME
00000030 0000 151 TPA_L_LLNK = TPA_Q_ONAME+8 ;LOGICAL LINK OR 0 IF LOCAL
00000034 0000 152 TPA_Q_LOGNAM = TPA_L_LLNK+4 ;DESCRIPTOR
0000003C 0000 153 TPA_Q_PNAM = TPA_Q_LOGNAM+8 ;PROTOCOL NAME DESCRIPTOR
00000044 0000 154 TPA_L_CNCT = TPA_Q_PNAM+8 ;ADDR OF CNCT DESC
00000048 0000 155 TPA_L_PTPA = TPA_L_CNCT+4 ;ADDR OF PREV. TPARSE BLOCK
0000004C 0000 156 TPA_L_SPST = TPA_L_PTPA+4 ;START OF SPEC IN STRING
00000050 0000 157 TPA_Q_UNAME = TPA_L_SPST+4 ;USERNAME DESCRIPTOR
00000058 0000 158 TPA_W_UENT = TPA_Q_UNAME+8 ;# USERS (CALLS TO ENTER_ADDR, ACTUALLY)
0000005A 0000 159 TPA_W_FLAGS = TPA_Q_UENT+2 ;FLAGS
00000000 0000 160 TPA_V_TERMINAL = 0 ;LAST LOGICAL USERNAME WAS TERMINAL
00000001 0000 161 TPA_M_TERMINAL = 1 ;MASK FOR FLAG
```



```
00000038 0000 162 TPA_C_EXTRA = TPA_W_FLAGS+2-TPA_L_LCOUNT;LENGTH OF EXTENSION
          0000 163
          0000 164 ;
          0000 165 ; OWN STORAGE:
          0000 166 ;
          0000 167
00000000 168 .PSECT $SPLITS$,LONG,RD,NOWRT,NOEXE
          0000 169
          0000 170 DIST_TYPE: ;DISTRIBUTION LIST FILE TYPE
53 49 44 2E 0000 171 .ASCII /.DIS/
00000004 0004 172 DIST_TYPE_SIZ = .-DIST_TYPE
          0004 173
          0004 174 AT_STRING:
40 0004 175 .ASCII /a/
          0005 176
00000000 177 .PSECT $CODE$,LONG,RD,NOWRT,EXE
```

```
0000 179 .SBTTL ADD ADDRESSEE TO ADDRESSEE LIST
0000 180 ;++
0000 181 : FUNCTIONAL DESCRIPTION:
0000 182 :
0000 183 : PARSE ADDRESSEE NAMES AND ADD TO ADDRESSEE LIST.
0000 184 :
0000 185 : CALLING SEQUENCE:
0000 186 : CALL MAIL$ADD_ADDR(ADDR,CNCTDESC)
0000 187 :
0000 188 : INPUT PARAMETERS:
0000 189 : 4(AP) = ADDRESSEE NAME(S) DESC
0000 190 : 8(AP) = ADDRESS OF CONNECT BLOCK DESCRIPTOR
0000 191 :
0000 192 :
0000 193 : OUTPUT PARAMETERS:
0000 194 : NONE
0000 195 :
0000 196 : IMPLICIT OUTPUTS:
0000 197 : ADDRESSEE LIST ENTRIES CREATED FOR ADDRESSEE(S) AND ENTERED
0000 198 : INTO ADDRESSEE LIST. IF AN ADDRESSEE IS LOCATED ON A REMOTE
0000 199 : SYSTEM, A LOGICAL LINK AND LOGICAL LINK LIST ENTRY ARE ALSO
0000 200 : CREATED.
0000 201 :
0000 202 : COMPLETION CODES:
0000 203 : RO = SUCCESS IF ALL ADDRESSEES FOUND SUCCESSFULLY,
0000 204 : = WARNING IF AT LEAST ONE ADDRESSEE FOUND SUCCESSFULLY,
0000 205 : = ERROR IF NO ADDRESSEES FOUND OR SYNTAX ERROR IN LIST.
0000 206 :
0000 207 : SIDE EFFECTS:
0000 208 : IF FAILURE, ERROR IS SIGNED.
0000 209 :
0000 210 : --
0000 211 MAIL_ADD_ADDR:
0000 212 .WORD *M<R2,R3,R4> ; INTERNAL ROUTINE WHICH IS CALLED
0002 213 ; TO RECURSIVELY ADD AN ADDRESS
54 08 AD D0 0002 214 MOVL 8(FP),R4 ; (CALLED FROM WITHIN MAIL$ADD_ADDR ONLY)
24 A4 D7 0006 215 DECL TPA_L_LCOUNT(R4) ; GET CALLER'S TPARSE BLOCK
45 14 0009 216 BGTR 60$ ; DECREMENT THE COUNT
50 44 A4 D0 000B 217 MOVL TPA_L_CNCT(R4),R0 ; BRANCH OF NOT LOOPING
7E 7C 000F 218 CLRQ -(SP) ; GET CNCT BLOCK ADDRESS
52 5E D0 0011 219 MOVL SP,R2 ; MAKE NULL DESCRIPTOR
28 A0 9F 0014 220 PUSHAB CNCT_Q_ADRLIST(R0) ; SAVE ITS ADDRESS
34 A4 9F 0017 221 PUSHAB TPA_Q_COGNAM(R4) ; STACK ADDRESS OF LISTHEAD
52 DD 001A 222 PUSHL R2 ; STACK USERNAME DESCRIPTOR ADDR
52 DD 001C 223 PUSHL R2 ; USE NULL NODENAME
00000000'EF 04 FB 001E 224 CALLS #4,MAIL$ADDR_EXISTS ; AND NULL USERNAME
24 50 E8 0025 225 BLBS R0,50$ ; SEE IF ALREADY IN LIST
52 34 A4 9E 0028 226 MOVAB TPA_Q_LOGNAM(R4),R2 ; BRANCH IF YES
53 44 A4 D0 002C 227 MOVL TPA_L_CNCT(R4),R3 ; SET USERNAME DESCR ADDR IN R2
042C 30 0030 228 BSBW CREATE_ENTRY ; SET CNCT ADDR IN R3
04 50 E9 0033 229 BLBC R0,40$ ; CREATE THIS ENTRY
1C A1 01 88 0036 230 BISB2 #ADR_M_NOSEND,ADR_B_FLAGS(R1) ; BRANCH IF FAILED
28 A4 9F 003A 231 40$: PUSHAB TPA_Q_ONAME(R4) ; FLAG NO SEND
01 DD 003D 232 PUSHL #1 ; STACK ADDRESS OF DESCRIPTOR
007E808A 8F DD 003F 233 PUSHL #MAIL$_FORWLOOP ; STACK NUMBER OF ARGUMENTS
00000000'GF 03 FB 0045 234 CALLS #3,G^LIB$SIGNAL ; FORWARDING LOOP ERROR
50 02 D0 004C 235 50$: MOVL #ST$K_ERROR,R0 ; RETURN ERROR STATUS
```



```

      53 54 04 004F 236 RET
      54 54 D0 0050 237 60$: MOVL R4,R3 ;SET R3 POINTING TO PREV. CNCT
      54 54 D4 0053 238 CLRL R4 ;CLEAR PRESET UENT VALUE
15 00000000'EF 08 E1 0055 239 BBC #MAIF V CTRLCFL,MAIL$GL_FLAGS,ADD_ADDR ;BRANCH IF NOT CTRL/C
50 007E8112 8F D0 005D 240 MOVL #MAIL$_CONABORT,R0 ;FLAG ABORTED BY CTRL/C
      04 0064 241 RET
      0065 242
      0065 243 AT_LIST_ADD_ADDR:
      53 001C 0065 244 .WORD ^M<R2,R3,R4> ;ENTRY FOR DISTRIBUTION LIST RECURSION
      54 53 D4 0067 245 CLRL R3 ;CLEAR PREVIOUS FLAG
      01 D0 0069 246 MOVL #1,R4 ;SET UENT FLAG
      04 11 006C 247 BRB ADD_ADDR
      006E 248
      001C 006E 249 .ENTRY MAIL$ADD_ADDR,- ;ADD ADDRESSEE TO LIST
      0070 250 ^M<R2,R3,R4> ;(ENTRY MASK)
      53 7C 0070 251 CLRQ R3 ;SET NO PREVIOUS CALL AND NO UENT
      0072 252 ADD_ADDR:
50 04 AC D0 0072 253 MOVL ADDR(AP),R0 ;GET ADDRESSEE DESC ADDR
5E A4 AE 9E 0076 254 MOVAB -<TPASK_LENGTH0+TPA_C_EXTRA>(SP),SP ;CREATE TPARSE BLOCK
      52 5E D0 007A 255 MOVL SP,R2 ;GET ADDR OF IT
      62 08 D0 007D 256 MOVL #TPASK_COUNT0,(R2) ;SET PARAMETER COUNT
20 A2 01 D0 0080 257 MOVL #1,TPASK_PARAM(R2) ;USE PARAMETER FOR STATUS - ASSUME SUCCESS
08 A2 60 3C 0084 258 MOVZWL (R0),TPASK_STRINGCNT(R2) ;SET SIZE OF ADDRESSEE
0C A2 04 A0 D0 0088 259 MOVL 4(R0),TPASK_STRINGPTR(R2) ;SET ADDR OF ADDRESSEE
      53 D5 008D 260 TSTL R3 ;PREVIOUS BLOCK PRESENT?
      1F 13 008F 261 BEQL 5$ ;IF EQL NO
24 A2 24 A3 D0 0091 262 MOVL TPA_L_LCOUNT(R3),TPA_L_LCOUNT(R2)
28 A2 28 A3 7D 0096 263 MOVQ TPA_Q_ONAME(R3),TPA_Q_ONAME(R2)
44 A2 44 A3 D0 009B 264 MOVL TPA_L_CNCT(R3),TPA_L_CNCT(R2)
58 A2 58 A3 B0 00A0 265 MOVW TPA_W_UENT(R3),TPA_W_UENT(R2)
5A A2 5A A3 B0 00A5 266 MOVW TPA_W_FLAGS(R3),TPA_W_FLAGS(R2)
48 A2 53 D0 00AA 267 MOVL R3,TPA_L_PTPA(R2) ;COPY TPARSE BLOCK ADDRESS
      1E 11 00AE 268 BRB 7$
24 A2 0A D0 00B0 269 5$: MOVL #10,TPA_L_LCOUNT(R2) ;SET LOOP COUNT LIMIT
28 A2 08 A2 7D 00B4 270 MOVQ TPA_L_STRINGCNT(R2),TPA_Q_ONAME(R2) ;SET ORIGINAL NAME
      30 A2 D4 00B9 271 CLRL TPA_L_LLNK(R2) ;CLEAR LLNK
      34 A2 7C 00BC 272 CLRQ TPA_Q_LOGNAM(R2) ;CLEAR DESCRIPTOR
44 A2 08 AC D0 00BF 273 MOVL 8(AP),TPA_L_CNCT(R2) ;SET CNCT BLOCK ADDRESS
      48 A2 D4 00C4 274 CLRL TPA_L_PTPA(R2) ;CLEAR PREV TPARSE BLOCK POINTER
      58 A2 D4 00C7 275 CLRL TPA_W_UENT(R2) ;CLEAR # ENTER ADDRS (AND FLAGS)
58 A2 54 B0 00CA 276 MOVW R4,TPA_W_UENT(R2) ;SET PRESET UENT
      3C A2 7C 00CE 277 7$: CLRQ TPA_Q_PNAM(R2) ;PROTOCOL NAME DESCRIPTOR
50 A2 7C 00D1 278 CLRQ TPA_Q_UNAME(R2) ;CLEAR USERNAME DESCRIPTOR
      52 DD 00D4 279 PUSHL R2
0133'CF 01 FB 00D6 280 CALLS #1,W^CALL_TPARSE
      1C 50 E8 00DB 281 BLBS R0,10$ ;BR IF SUCCESS
007E8112 8F 50 D1 00DE 282 CMPL R0,#MAIL$_CONABORT ;ABORT BY ^C?
      31 13 00E5 283 BEQL 30$ ;BRANCH IF YES
      10 A2 DF 00E7 284 PUSHAL TPA_L_TOKENCNT(R2) ;SET ADDR OF TOKEN DESCRIPTOR
      01 DD 00EA 285 PUSHL #1 ;ONE FAO ARGUMENT
007E10FA 8F DD 00EC 286 PUSHL #SHR$ SYNTAX ! - ;SET SYNTAX ERROR MESSAGE
      00000000'GF 03 FB 00F2 287 <MAIL$ FACILITY @ STSSV_FAC NO> ! STSSK ERROR
      04 00F9 288 CALLS #3,G^LIB$SIGNAL ;SIGNAL THE ERROR
      00FA 289 RET ;RETURN
      00FE 290 10$: BLBS TPA_L_PARAM(R2),25$ ;BR IF COMPLETE SUCCESS
19 20 A2 E8 00FA 291 PUSHL #STSSK_WARNING ;ASSUME AT LEAST PARTIAL SUCCESS
      00  DD 00FE 292
```

```
51 44 A2 D0 0100 293      MOVL  TPA_L CNCT(R2),R1      ;GET ADDR OF CNCT BLOCK
28 A1 9F 0104 294      PUSHAB CNCT @ ADRLST(R1)      ;GET ADDR OF LISTHEAD
000005B3'EF 01 FB 0107 295      CALLS #1,MAIL$ANY_ADDRESSEES ;SEE IF ANY ADDRESSEES FOUND
03 50 E8 010E 296      BLBS  R0,20$                ;BRANCH IF YES
6E 02 D0 0111 297      MOVL  #ST$K_ERROR,(SP)        ;NO--SET ERROR
50 8ED0 0114 298 20$:    POPL  R0                    ;GET RETURN STATUS
04 0117 299 25$:    RET                                ;RETURN
0118 300
0118 301
0118 302 ; CTRL/C was typed while attempting connection
0118 303
0118 304 30$:    MOVL  TPA_L CNCT(R2),R3      ;GET CNCT BLOCK ADDRESS
53 44 A2 D0 0118 305      PUSHAB CNCT @ LNKLIST(R3)    ;STACK LOGICAL LINK LIST
30 A3 9F 011C 306      CALLS #1,MAIL$DELETELINK ;DELETE ANY OUTSTANDING LINKS
00000000'EF 01 FB 011F 307      PUSHL R3          ;STACK CNCT BLOCK ADDRESS
53 DD 0126 308      CALLS #1,MAIL$INI_ADDR ;RE-INITIALIZE LIST
000005DD'EF 01 FB 0128 309      MOVL  #ST$K_ERROR,R0 ;RETURN ERROR
50 02 D0 012F 310      RET
04 0132 311
0133 312
0133 313 CALL_TPARSE:
0000 0133 314      .WORD 0
6D 00000000'EF DE 0135 315      MOVAL MAIL$PRUNW_HANDLER,(FP)
00000000'EF DF 013C 316      PUSHAL ADDR_KEY ;SET KEYWORD TABLE ADDRESS
00000000'EF DF 0142 317      PUSHAL ADDR_STATE ;SET STATE TABLE ADDRESS
04 AC DD 0148 318      PUSHL 4(AP) ;SET PARAMETER BLOCK ADDRESS
00000000'GF 03 FB 014B 319      CALLS #3,G^LIB$TPARSE ;PARSE ADDRESSEE NAME
04 0152
```



```
0153 321 .SBTTL ADDRESSEE PARSING STATE TABLE
0153 322 :++
0153 323 :
0153 324 : PARSE "TO:" LIST AND FILL IN LINK AND ADDRESSEE TABLES
0153 325 :
0153 326 : PARSES LISTS WITH THE FOLLOWING FORMAT:
0153 327 :
0153 328 :     ADDRESSEE,ADDRESSEE,...,ADDRESSEE
0153 329 :
0153 330 : WHERE "ADDRESSEE" HAS THE FOLLOWING FORMAT:
0153 331 :
0153 332 :     [NODE1::][NODE2::]...[NODEN::]USERNAME
0153 333 :
0153 334 : WHERE USERNAME CAN ALSO BE A UIC/PPN FOR RSX/RSTS SYSTEMS.
0153 335 :
0153 336 : LIST CAN ALSO HAVE A "@FILESPEC" AS LAST TOKEN, WHERE
0153 337 : THE FILE CONTAINS A LIST OF ADDRESSEES.
0153 338 :
0153 339 :--
0153 340 $INIT STATE ADDR STATE,ADDR_KEY
0153 341 $STATE NEXT_ADDR
0153 342 $TRAN TPAS_LAMBDA,,SET_SPST
0153 343
0153 344 $STATE
0153 345 $TRAN TPAS_EOS,TPAS_EXIT
0153 346 $TRAN CH_SPACE,NEXT_ADDR
0153 347 $TRAN CH_TAB,NEXT_ADDR
0153 348 $TRAN '! ',TPAS_EXIT
0153 349 $TRAN COMMA,NEXT_ADDR
0153 350 $TRAN '+',NEXT_ADDR
0153 351 $TRAN '@',DIST_PARSE
0153 352 $TRAN '!',QDIST_PARSE
0153 353 $TRAN !PROTOCOL_SPEC,,STORE_PROTOCOL
0153 354 $TRAN TPAS_LAMBDA
0153 355
0153 356 $STATE
0153 357 $TRAN !NODE1_SPEC
0153 358 $TRAN !CHECK_QUOTE,QUOTED_SPEC
0153 359 $TRAN !GET_SYMBOL,,STORE_COGNAME
0153 360 $TRAN TPAS_LAMBDA,FIND_ADDRESSEE
0153 361
0153 362 $STATE
0153 363 $TRAN !SCAN_ADDR,SPEC_CONTINUE,STORE_UNAME
0153 364 $TRAN TPAS_LAMBDA,FIND_ADDRESSEE
0153 365
0153 366 $STATE SPEC_CONTINUE
0153 367 $TRAN !CHECK_SEP,NEXT_ADDR,ENTER_ADDR
0153 368 $TRAN TPAS_LAMBDA
0153 369 :
0153 370 : FIND NEXT ADDRESSEE AFTER BAD USERNAME AND REPORT ERROR ON THIS ONE
0153 371 : EXIT WITH TPAS_EXIT BECAUSE MESSAGE WILL HAVE BEEN ISSUED ALREADY
0153 372 :
0153 373 $STATE FIND_ADDRESSEE
0153 374 $TRAN TPAS_EOS
0153 375 $TRAN '! '
0153 376 $TRAN COMMA
0153 377 $TRAN '+'
```

```
0153 378 $STRAN TPA$_ANY,FIND_ADDRESSEE
0153 379
0153 380 $STATE
0153 381 $STRAN TPA$_LAMBDA,TPA$_EXIT,REPORT_SYNTAX_ERROR
0153 382
0153 383 $STATE SCAN_ADDR
0153 384 $STRAN !PROTOCOL_SPEC,SCAN_ADDR
0153 385 $STRAN !NODE_SPEC,SCAN_ADDR
0153 386 $STRAN !USER_SPEC,TPA$_EXIT
0153 387 $STRAN TPA$_LAMBDA,TPA$_EXIT
0153 388
0153 389 :
0153 390 : DISTRIBUTION LIST PARSING
0153 391 :
0153 392 $STATE DIST_PARSE
0153 393 $STRAN TPA$_FILESPEC,NEXT_ADDR,GET_DIST_LIST
0153 394 :
0153 395 : QUOTED DISTRIBUTION LIST PARSING
0153 396 :
0153 397 $STATE QDIST_PARSE
0153 398 $STRAN 'a'
0153 399 $STATE
0153 400 $STRAN !QFILE_SPEC,TPA$_EXIT,GET_DIST_LIST
0153 401 $STATE QFILE_SPEC
0153 402 $STRAN !NOT_QEOS,QFILE_SPEC
0153 403 $STRAN TPA$_LAMBDA,TPA$_EXIT
0153 404 $STATE NOT_QEOS
0153 405 $STRAN '...'
0153 406 $STRAN TPA$_ANY,TPA$_EXIT
0153 407 $STATE
0153 408 $STRAN TPA$_EOS,TPA$_FAIL
0153 409 $STRAN TPA$_ANY,TPA$_EXIT
0153 410 :
0153 411 : NODE SPECIFICATION SUB-EXPRESSION PARSING
0153 412 :
0153 413 $STATE NODE1_SPEC ;FIRST NODENAME PARSING
0153 414 $STRAN !GET_SYMBOL,NODE_SPECC,STORE_LOGNAME
0153 415 $STATE NODE_SPEC ;NODENAME PARSING
0153 416 $STRAN !GET_SYMBOL
0153 417 $STATE NODE_SPECC ;NODENAME CONTINUATION PARSING
0153 418 $STRAN !ACCESS_LIST
0153 419 $STRAN TPA$_LAMBDA
0153 420 $STATE
0153 421 $STRAN ':'
0153 422 $STATE
0153 423 $STRAN ':',TPA$_EXIT
0153 424
0153 425 $STATE ACCESS_LIST ;DECNET ACCESS LIST PARSING
0153 426 $STRAN '...'
0153 427 $STATE ACCESS_SCAN
0153 428 $STRAN '...',TPA$_EXIT
0153 429 $STRAN TPA$_ANY,ACCESS_SCAN
0153 430 :
0153 431 : USERNAME/PPN SPECIFICATION SUB-EXPRESSION PARSING
0153 432 :
0153 433 $STATE USER_SPEC ;USERNAME SPEC PARSING
0153 434 $STRAN !GET_SYMBOL,TPA$_EXIT
```



```
0153 435 $STRAN '['
0153 436 $STRAN '('
0153 437 $STRAN ''',QUUSER_SPEC
0153 438 $STATE ;UIC/PPN USERNAME SPEC PARSING
0153 439 $STRAN TPA$_DECIMAL
0153 440 $STATE
0153 441 $STRAN COMMA
0153 442 $STATE
0153 443 $STRAN TPA$_DECIMAL
0153 444 $STATE
0153 445 $STRAN ']',TPA$_EXIT
0153 446 $STRAN ')',TPA$_EXIT
0153 447
0153 448 $STATE QUUSER_SPEC ;QUOTED USERNAME SPEC PARSING
0153 449 $STRAN ''',TPA$_EXIT
0153 450 $STRAN TPA$_ANY,QUUSER_SPEC
0153 451
0153 452 $STATE QUOTED_SPEC
0153 453 $STRAN !USER_SPEC,SPEC_CONTINUE,STORE_LOGNAME
0153 454
0153 455 :
0153 456 : : PROTOCOL NAME PARSING
0153 457 :
0153 458 $STATE PROTOCOL_SPEC
0153 459 $STRAN !GET_SYMBOL
0153 460
0153 461 $STATE
0153 462 $STRAN ''',QPROT_SPEC
0153 463 $STRAN '%',TPA$_EXIT
0153 464
0153 465 $STATE QPROT_SPEC
0153 466 $STRAN ''',
0153 467 $STRAN TPA$_ANY,QPROT_SPEC
0153 468
0153 469 $STATE
0153 470 $STRAN '%',TPA$_EXIT
0153 471 :
0153 472 : : SYMBOL PARSING
0153 473 :
0153 474 $STATE GET_SYMBOL
0153 475 $STRAN '!',GETSYM1
0153 476 $STRAN '-',GETSYM1
0153 477 $STRAN TPA$_SYMBOL,GETSYM1
0153 478 $STRAN TPA$_LAMBDA,TPA$_FAIL
0153 479
0153 480 $STATE GETSYM1
0153 481 $STRAN '!',GETSYM1
0153 482 $STRAN '-',GETSYM1
0153 483 $STRAN TPA$_SYMBOL,GETSYM1
0153 484 $STRAN TPA$_LAMBDA,TPA$_EXIT
0153 485
0153 486 :
0153 487 : : CHECK THAT NEXT CHARACTER IS LEGAL ADDRESSEE TERMINATOR
0153 488 :
0153 489 $STATE CHECK_SEP
0153 490 $STRAN !LEGAL_SEP,TPA$_EXIT
0153 491
```

```
0153 492 $STATE LEGAL_SEP
0153 493 $STRAN !LEGAL_SEP1,TPAS_FAIL
0153 494 $STRAN TPAS_LAMBDA,TPAS_EXIT
0153 495
0153 496 $STATE LEGAL_SEP1
0153 497 $STRAN TPAS_EOS,TPAS_FAIL
0153 498 $STRAN '!',TPAS_FAIL
0153 499 $STRAN COMMA,TPAS_FAIL
0153 500 $STRAN '+',TPAS_FAIL
0153 501 $STRAN CH_SPACE,TPAS_FAIL
0153 502 $STRAN CH_TAB,TPAS_FAIL
0153 503 $STRAN TPAS_LAMBDA,TPAS_EXIT
0153 504
0153 505 :
0153 506 : Check to see if the next character is a quote
0153 507 :
0153 508 $STATE CHECK_QUOTE
0153 509 $STRAN !QUOTE_SPEC,TPAS_EXIT
0153 510
0153 511 $STATE QUOTE_SPEC
0153 512 $STRAN !SPEC_QUOTE,TPAS_FAIL
0153 513 $STRAN TPAS_LAMBDA,TPAS_EXIT
0153 514
0153 515 $STATE SPEC_QUOTE
0153 516 $STRAN '""',TPAS_FAIL
0153 517 $STRAN TPAS_LAMBDA,TPAS_EXIT
0153 518
0153 519
0153 520 $END_STATE
0153 521
00000153 522
0153 523 .PSECT $CODE$,LONG,RD,NOWRT,EXE
0153 524
```



```
0153 526 .SBTTL STORE_PROTOCOL - STORE PROTOCOL NAME IN TPA BLOCK EXTENSION
0153 527 :++
0153 528 : ROUTINE CALLED BY TPARSE TO STORE THE PROTOCOL NAME
0153 529 :
0153 530 :--
0153 531
0153 532 STORE_PROTOCOL:
0153 533 .WORD 0
3C AC 10 AC 0000 0155 534 MOVQ TPA$L_TOKENCNT(AP),TPA_Q_PNAM(AP) ;COPY PROTOCOL NAME
3C AC 3C AC 7D 015A 535 DECW TPA_Q_PNAM(AP) ;DON'T COUNT THE '%'
04 04 015D 536 RET
015E 537
015E 538 :++
015E 539 : THIS ROUTINE STORES THE ADDRESS OF THE START OF A USER SPEC
015E 540 : AND CLEARS THE DESCRIPTORS IN THE TPARSE EXTENSION BLOCK
015E 541 :--
015E 542 .DEBUG SET_SPST
015E 543 SET_SPST:
015E 544 .WORD 0
4C AC 0C AC 0000 0160 545 MOVL TPA$L_STRINGPTR(AP),TPA_L_SPST(AP);SAVE START
3C AC 3C AC D0 0165 546 CLRL TPA_Q_PNAM(AP) ;CLEAR PROTOCOL NAME LENGTH
34 AC 34 AC D4 0168 547 CLRL TPA_Q_LOGNAM(AP) ;CLEAR LOGNAM DESCRIPTOR
50 AC 50 AC D4 016B 548 CLRL TPA_Q_UNAME(AP) ;CLEAR USERNAME DESCRIPTOR
04 04 016E 549 RET
016F 550 :++
016F 551 : THIS TPARSE ACTION ROUTINE REPORTS A SYNTAX ERROR.
016F 552 :--
016F 553 .DEBUG REPORT_SYNTAX_ERROR
016F 554 REPORT_SYNTAX_ERROR:
016F 555 .WORD 0
7E 14 AC 4C AC DD 0171 556 PUSHL TPA_L_SPST(AP) ;FORM A DESCRIPTOR
6E 6E C3 0174 557 SUBL3 (SP),TPA$L_TOKENPTR(AP),-(SP) ;COMPUTE LENGTH OF STRING
04 04 12 0179 558 BNEQ 10$ ;BRANCH IF SOMETHING THERE
6E 6E D6 017B 559 INCL (SP) ;COUNT THE ILLEGAL TERMINATOR TOO
07 07 11 017D 560 BRB 20$
08 AC 08 AC D5 017F 561 10$: TSTL TPA$L_STRINGCNT(AP) ;DID WE GET HERE AT END OF STRING?
02 02 13 0182 562 BEQL 20$ ;IF EQL YES
6E 6E D7 0184 563 DECL (SP) ;NO--DON'T PRINT THE TERMINATOR
5E 5E DD 0186 564 20$: PUSHL SP ;STACK ADDRESS OF DESCRIPTOR
01 01 DD 0188 565 PUSHL #1 ;ONE FAO ARG
007E10FA 8F DD 018A 566 PUSHL #<SHR$ SYNTAX!<MAILS_FACILITY@STSS$V_FAC_NO>!STSS$K_ERROR>
00000000'GF 03 FB 0190 567 CALLS #3,G^LIB$SIGNAL
20 AC 20 AC 00 D0 0197 568 MOVL #STSS$K_WARNING,TPA$L_PARAM(AP) ;SET WARNING STATUS
50 50 01 D0 019B 569 MOVL #1,R0
04 04 019E 570 RET
019F 571 :++
019F 572 : THIS TPARSE ACTION ROUTINE STORES THE USERNAME IN TPA$L_TOKENCNT/TOKENPTR
019F 573 : INTO THE TPARSE BLOCK EXTENSION
019F 574 :--
019F 575 STORE_UNAME:
019F 576 .WORD 0
50 AC 10 AC 0000 01A1 577 MOVQ TPA$L_TOKENCNT(AP),TPA_Q_UNAME(AP)
04 04 01A6 578 RET
01A7 579 :++
01A7 580 : THIS TPARSE ACTION ROUTINE STORES THE LOGICAL NAME IN TPA$L_TOKENCNT/TOKENPTR
01A7 581 : INTO THE TPARSE BLOCK EXTENSION
01A7 582 :
```

```
01A7 583 ;--
01A7 584
01A7 585 ASSUME TPA$L_TOKENPTR EQ TPA$L_TOKENCNT+4
01A7 586
01A7 587 STORE_LOGNAME:
01A7 588 .WORD 0
34 AC 10 AC 0000 01A9 589 MOVQ TPA$L_TOKENCNT(AP),TPA_Q_LOGNAM(AP) ;COPY DESCRIPTOR
04 01AE 590 RET
01AF 591 ;++
01AF 592 ; THIS ROUTINE RESETS TPA_L_LCOUNT WHEN A NEW ADDRESSEE IS ENCOUNTERED
01AF 593
01AF 594 ;--
01AF 595
01AF 596 RESET_LCOUNT:
01AF 597 MOVL AP,R1 ;GET PTR TO TPARSE BLOCK
24 A1 5C D0 01B2 598 10$: MOVL #10,TPA_L_LCOUNT(R1) ;RESET LOOP COUNT
5A A1 0A D0 01B6 599 BICB2 #TPA_M_TERMINAL,TPA_W_FLAGS(R1) ;RESET TERMINAL ATTRIBUTE FLAG
51 48 A1 D0 01BA 600 MOVL TPA_C_PTPA(R1),R1 ;GO UP AND GET THEM ALL
F2 12 05 01BE 601 BNEQ 10$
01C0 602 RSB
01C1 603 ;++
01C1 604 ; ALREADY_IN_LIST - See if addressee already in list
01C1 605
01C1 606 ; Inputs:
01C1 607
01C1 608 ; AP = pointer to tparse arg block
01C1 609
01C1 610 ; outputs:
01C1 611
01C1 612 ; true if already entered, false if not
01C1 613
01C1 614 ; note**this routine is bsbw'd to to save code space
01C1 615
01C1 616 ALREADY_IN_LIST:
50 44 AC D0 01C1 617 MOVL TPA_L_CNCT(AP),R0 ;GET CNCT BLOCK ADDRESS
28 A0 9F 01C5 618 PUSHAB CNCT_Q_ADRLIST(R0) ;STACK ADDRESS OF ADDRESSEE LISTHEAD
50 AC 9F 01C8 619 PUSHAB TPA_Q_0NAME(AP) ;STACK USERNAME DESCRIPTOR ADDR
34 AC 9F 01CB 620 PUSHAB TPA_Q_LOGNAM(AP) ;STACK NODENAME DESCR ADDR
3C AC 9F 01CE 621 PUSHAB TPA_Q_PNAM(AP) ;STACK PROTOCOL DESCR ADDR
00000000*EF 04 FB 01D1 622 CALLS #4,MAIL$ADDR_EXISTS ;SEE IF EXISTS IN ADDRESSEE LIST
05 01D8 623 RSB ;RETURN WITH RESULT IN R0
```



```
01D9 625 .SBTTL ENTER_ADDR - ENTER ADDRESSEE IN ADDRESSEE LIST
01D9 626 :++
01D9 627 :
01D9 628 ENTER_ADDR - ENTER ADDRESSEE IN ADDRESSEE LIST
01D9 629 :
01D9 630 THIS ACTION ROUTINE IS CALLED TO ENTER AN ADDRESSEE IN THE ADDRESSEE
01D9 631 LIST. FIRST, AN ATTEMPT IS MADE TO TRANSLATE THE FIRST SYMBOL IN THE
01D9 632 ADDRESSEE NAME. FOR A REMOTE ADDRESSEE THE FIRST SYMBOL IS A NODE NAME,
01D9 633 OTHERWISE, IT'S JUST A LOGICAL NAME OR A USERNAME.
01D9 634 :
01D9 635 IF THE SYMBOL TRANSLATES, THE TRANSLATION IS PREFIXED TO THE REST OF THE
01D9 636 ADDRESSEE STRING (IF ANY) AND THE PARSER IS RECURSIVELY CALLED TO PARSE THE
01D9 637 NEW ADDRESSEE SPEC AND ENTER THE RESULT IN THE ADDRESSEE LIST.
01D9 638 :
01D9 639 IF THE SYMBOL DOESN'T TRANSLATE, AND IT'S A USERNAME, LOOK IT UP IN
01D9 640 SYSS$SYSTEM:VMSMAIL.DAT TO SEE IF IT IS FORWARDED. IF IT IS, TAKE THE
01D9 641 FORWARDING ADDRESS AND CALL THE PARSER RECURSIVELY TO PARSE THE NEW
01D9 642 ADDRESSEE SPEC.
01D9 643 :
01D9 644 IF THE SYMBOL DOESN'T TRANSLATE, AND IT WAS A NODE NAME, A LOGICAL LINK
01D9 645 IS CREATED TO A SLAVE MAIL JOB AND THE REST OF THE ADDRESSEE IS PASSED
01D9 646 TO THE SLAVE MAIL JOB FOR VERIFICATION. IF THE SYMBOL ISN'T A NODE NAME,
01D9 647 IT MUST BE A USER NAME, AND IT'S VERIFIED BY LOOKING FOR A CORRESPONDING
01D9 648 AUTHORIZATION FILE RECORD.
01D9 649 :
01D9 650 THE ADDRESSEE IS THEN ENTERED INTO THE ADDRESSEE LIST FOR LATER USE
01D9 651 WHEN THE MAIL IS ACTUALLY TO BE SENT.
01D9 652 :
01D9 653 INPUTS:
01D9 654 :
01D9 655 TPA_Q_LOGNAM(AP) = NODENAME/USERNAME LOGICAL NAME DESCRIPTOR
01D9 656 :
01D9 657 IF TPA_Q_LOGNAM(AP) IS A NODE NAME:
01D9 658 :
01D9 659 TPA_Q_UNAME(AP) = DESCRIPTOR OF ADDRESSEE NAME
01D9 660 :
01D9 661 OUTPUTS:
01D9 662 :
01D9 663 ADDRESSEE LIST ENTRY CREATED AND ENTERED INTO ADDRESSEE LIST.
01D9 664 :--
01D9 665 CASE_BLIND:
01D9 666 .LONG LNMSM_CASE_BLIND
01DD 667 ENTER_ADDR:
01DD 668 .WORD ^M<R2,R3,R4,R5,R6,R7,R8>:ENTER ADDRESSEE IN LIST
01DF 669 INCW TPA_W_UENT(AP):(ENTRY MASK)
01E2 670 MOVAQ TPA_Q_LOGNAM(AP),R7:COUNT ANOTHER TIME THROUGH
01E6 671 BBS #TPA_Q_TERMINAL,TPA_W_FLAGS(AP),4$:GET ADDR OF LOGICAL NAME DESC
01EB 672 CMPB @4(R7),#^A'_:BRANCH IF PREVIOUSLY TERMINAL
01F0 673 BNEQ 41$:IS IT PREFIXED WITH UNDERSCORE?
01F2 674 DECW (R7):BR IF NOT
01F4 675 INCL 4(R7):REMOVE UNDERSCORE FROM COUNT
01F7 676 4$:BRW CHECK_ADDR:AND FROM ADDRESS OF LOGICAL NAME
01FA 677 :SKIP TRANSLATION
01FA 678 :
01FA 679 SEE IF NODENAME/USERNAME IS PREFIXED WITH A QUOTE IF SO
01FA 680 STRIP QUOTES FROM FIRST AND LAST POSITIONS IN STRING
01FA 681 41$:CMPB @4(R7),#^A/'/:IS IT PREFIXED WITH A QUOTE
```

02000000

57 58 AC B6 01FC 01DD 667 ENTER_ADDR:

OC 5A AC 00 E0 01E2 670 MOVAQ

SF 8F 04 B7 91 01EB 672 CMPB

08 12 01F0 673 BNEQ

67 B7 01F2 674 DECW

04 A7 D6 01F4 675 INCL

00F5 31 01F7 676 4\$:BRW

22 04 B7 91 01FA 681 41\$:CMPB

```

        06 12 01FE 682      BNEQ 5$      ;NO, THEN BRANCH
67 04 02 A2 0200 683      SUBW2 #2,(R7)    ;REMOVE QUOTES FROM COUNT
        04 A7 D6 0203 684      INCL 4(R7)   ;SKIP OVER FIRST QUOTE
        0206 685      :
        0206 686      : SEE IF NODENAME/USERNAME TRANSLATES AS A LOGICAL NAME. IF IT IS, USE
        0206 687      : TRANSLATION AND RECURSIVELY CALL ADD_ADDR.
        0206 688      :
5E FF01 CE 9E 0206 689 5$: MOVAB -LNMSC_NAMLENGTH(SP),SP;CREATE TRANSLATION BUFFER
        5E DD 020B 690      PUSHL SP      ;CREATE BUFFER DESCRIPTOR
7E FF 8F 9A 020D 691      MOVZBL #LNMSC_NAMLENGTH,-(SP) ;
56 5E D0 0211 692      MOVL SP,R6      ;GET ADDRESS OF DESC
        7E D4 0214 693      CLRL -(SP)   ;CREATE LONGWORD TO GET ATTRIBUTES
55 5E D0 0216 694      MOVL SP,R5      ;SAVE THE ADDRESS
        7E D4 0219 695      CLRL -(SP)   ;CREATE TRNLNM ITEM LIST
        7E D4 021B 696      CLRL -(SP)   ; NO RETURN ADDRESS
        55 DD 021D 697      PUSHL R5     ; ADDRESS TO RETURN ATTRIBUTES
00030004 8F DD 021F 698      PUSHL #<LNMS_ATTRIBUTES@16>!4 ;STACK BUFFER LENGTH AND ITEM
        56 DD 0225 699      PUSHL R6     ; RETURN LENGTH ADDRESS
        04 A6 DD 0227 700      PUSHL 4(R6) ; BUFFER ADDRESS
7E 50 00020000 8F C1 022A 701      MOVZWL (R6),R0 ; GET BUFFER LENGTH
        51 5E D0 022D 702      ADDL3 #<LNMS_STRING@16>,R0,-(SP) ;FINISH ITEM LIST
        0235 703      MOVL SP,R1      ;SAVE ADDRESS
        0238 704      $TRNLNM_S ATTR=CASE_BLIND,-
        0238 705      TABNAM=MAIL$SD_LNM_FILE_DEV,-
        0238 706      LOGNAM=(R7),-
        0238 707      ITMLST=(R1)
50 3C AC 50 AC A9 024E 708      BLBC R0,20$ ;BR IF FAILURE
        0B 12 0251 709      BISW3 TPA_Q_UNAME(AP),TPA_Q_PNAM(AP),R0 ;WAS THERE MORE THAN USERNAM?
65 0200 8F B3 0257 710      BNEQ 6$      ;BRANCH IF YES
        04 13 0259 711      BITW #LNMSM_TERMINAL,(R5) ;NO--WAS THIS TERMINAL?
5A AC 01 88 025E 712      BEQL 6$      ;IF EQL NO
        56 DD 0260 713      BISB2 #TPA_M_TERMINAL,TPA_W_FLAGS(AP) ;YES--FLAG FOR NEXT TIME
00000000'EF 01 FB 0264 714 6$: PUSHL R6 ;STACK ADDRESS OF DESCRIPTOR
50 50 AC 66 C1 0266 715      CALLS #1,MAIL$UPCASE Q ;MAKE SURE IT'S UPPER CASE
        51 3C AC 3C 026D 716 7$: ADDL3 (R6),TPA_Q_UNAME(AP),R0 ;COMPUTE SIZE OF NEW ADDRESSEE
        05 13 0272 717      MOVZWL TPA_Q_PNAM(AP),R1 ;GET PROTOCOL SIZE
50 51 C0 0276 718      BEQL 71$      ;BRANCH IF NONE
        50 D6 0278 719      ADDL2 R1,R0 ;INCLUDE PROTOCOL SIZE
        5E 50 C2 027B 720      INCL R0 ; AND ALLOW DELIMITER (%)
        5E 50 DD 027D 721 71$: SUBL R0,SP ;CREATE NEW ADDRESSEE BUFFER
        50 DD 0280 722      PUSHL SP ;CREATE BUFFER DESCRIPTOR
        50 DD 0282 723      PUSHL R0
53 04 AE D0 0284 724      MOVL 4(SP),R3 ;GET BUFFER ADDRESS
        3C AC B5 0288 725      TSTW TPA_Q_PNAM(AP) ;PROTOCOL SPECIFIED?
        09 13 028B 726      BEQL 75$ ;IF EQL NO
        3C AC 28 028D 727      MOVC TPA_Q_PNAM(AP),- ;COPY PROTOCOL SPEC FIRST
63 40 BC 0290 728      @TPA_Q_PNAM+4(AP),(R3)
        83 25 90 0293 729      MOVVB #^A/%/-(R3)+ ;STORE DELIMITER
63 04 B6 66 28 0296 730 75$: MOVC (R6),@4(R6),(R3) ;MOVE TRANSLATION TO BUFFER
        50 AC 28 029B 731      MOVC TPA_Q_UNAME(AP),- ;MOVE REST OF OLD ADDRESSEE TO BUFFER
63 54 BC 029E 732      @TPA_Q_UNAME+4(AP),(R3)
        50 AC B5 02A1 733      TSTW TPA_Q_UNAME(AP) ;NODENAME SPECIFIED ALSO?
        05 13 02A4 734      BEQL 76$ ;IF EQL NO, LOGNAM ALREADY SET UP
34 AC 50 AC 7D 02A6 735      MOVQ TPA_Q_UNAME(AP),TPA_Q_LOGNAM(AP) ;POSITION USERNAME DESC.
28 AC 34 AC 7D 02AB 736 76$: MOVQ TPA_Q_LOGNAM(AP),TPA_Q_UNAME(AP) ;AND SET ORIGINAL NAME
        5E DD 02B0 737      PUSHL SP ;SET ADDRESS OF ADDRESSEE DESC
        FD49 CF 01 FB 02B2 738      CALLS #1,MAIL_ADD_ADDR ;ADD NEW ADDRESSEE TO LIST
```



```
07 50 E8 02B7 739 BLBS R0,10$ ;BR IF SUCCESS
20 AC 50 D0 02BA 740 8$: MOVL R0,TPA$L_PARAM(AP) ;SAVE STATUS
50 01 D0 02BE 741 MOVL #1,R0 ;ALWAYS SET SUCCESS
04 02C1 742 10$: RET ;
02C2 743 ;
02C2 744 ; SEE IF USERNAME EXISTS IN SYS$SYSTEM:VMSMAIL.DAT, AND IF SO,
02C2 745 ; FEED FORWARDING ADDRESS BACK INTO MAIL_ADD_ADDR
02C2 746 ;
50 3C AC 50 AC A9 02C2 747 20$: BISW3 TPA_Q_UNAME(AP),TPA_Q_PNAM(AP),R0 ;WAS THIS A NODE NAME?
02C8 748 ; (OR A PROTOCOL?)
02C8 749 BNEQ CHECK_ADDR ;IF NEQ YES. DON'T BOTHER LOOKING
08 AE 9F 02CA 750 PUSHAB 8(SP) ;STACK OUTPUT BUFFER ADDR
67 9F 02CD 751 PUSHAB (R7) ;STACK DESCRIPTOR FOR NAME
0000'CF 02 FB 02CF 752 CALLS #2,W*MAIL$CHECK_FORW ;SEE IF USER IS FORWARDING
18 50 E9 02D4 753 BLBC R0,CHECK_ADDR ;BRANCH IF NO FORWARDING
66 4B AE 9A 02D7 754 MOVZBL VMD_B_FWDLNG+8(SP),(R6) ;SETUP DESCRIPTOR FOR NEW DESTINATION
04 A6 4C AE 9E 02DB 755 MOVAB VMD_T_FWDNAM+8(SP),4(R6) ; (ASSUME R6 STILL POINTS AT BUFFER)
8B 11 02E0 756 BRB 7$ ;PROCESS NEW DESTINATION
02E2 757 .ENABLE LOCAL_BLOCK
02E2 758 CHECK_PROT:
50 AC B5 02E2 759 TSTW TPA_Q_UNAME(AP) ;WAS NODENAME ALSO SPECIFIED?
51 12 02E5 760 BNEQ 8$ ;IF NEQ YES
50 AC 67 7D 02E7 761 MOVQ (R7),TPA_Q_UNAME(AP) ;NO, SET USERNAME
67 D4 02EB 762 CLRL (R7) ;AND ZERO NODENAME LENGTH
49 11 02ED 763 BRB 8$ ; CONTINUE
02EF 764 ;
02EF 765 ; CHECK IF ADDRESSEE EXISTS
02EF 766 ;
02EF 767 CHECK_ADDR:
53 44 AC D0 02EF 768 MOVL TPA_L_CNCT(AP),R3 ;GET CNCT BLOCK ADDRESS
3C AC B5 02F3 769 TSTW TPA_Q_PNAM(AP) ;PROTOCOL SPECIFIED?
EA 12 02F6 770 BNEQ CHECK_PROT ;IF NEQ YES
50 AC B5 02F8 771 TSTW TPA_Q_UNAME(AP) ;WAS NODENAME SPECIFIED?
06 12 02FB 772 BNEQ 5$ ;IF NEQ YES
00C5 31 02FD 773 BRW 10$ ;NO--GO HANDLE LOCAL USER
00CB 31 0300 774 1$: BRW 15$ ;BRANCH AID
0303 775 ;
0303 776 ; IF DESTINATION NODE IS SAME AS OUR NODE, THEN IGNORE AND SEND
0303 777 ; REST OF ADDRESSEE NAME BACK INTO ADD_ADDR
0303 778 ;
51 00000000'EF 9E 0303 779 5$: MOVAB MAIL$Q_SYSNODE,R1 ;POINT TO OUR NODE NAME DESCRIPTOR
04 B1 61 00 04 B7 67 2D 030A 780 CMPC5 (R7),@4(R7),#0,(R1),@4(R1) ;DEST. NODE SAME AS OUR NODE?
18 12 0312 781 BNEQ 7$ ;BRANCH IF NOT
7E 50 AC 7D 0314 782 6$: MOVQ TPA_Q_UNAME(AP),-(SP) ;YES--STACK DESCRIPTOR OF ADDRESSEE
5E DD 0318 783 PUSHL SP ;STACK ADDRESS OF DESCRIPTOR
34 AC 50 AC 7D 031A 784 MOVQ TPA_Q_UNAME(AP),TPA_Q_LOGNAM(AP) ;SET IN CASE FORWARD ERROR
28 AC 50 AC 7D 031F 785 MOVQ TPA_Q_UNAME(AP),TPA_Q_ONAME(AP) ;SET ORIGINAL NAME
FCD7 CF 01 FB 0324 786 CALLS #1,MAIL_ADD_ADDR ;RECURSE TO PEEL OFF NEXT NODE NAME
00C8 31 0329 787 BRW 20$ ;GO RETURN
57 DD 032C 788 7$: PUSHL R7 ;STACK NODE DESCRIPTOR ADDRESS
00000000'EF 01 FB 032E 789 CALLS #1,MAIL$CHK_CLUNODES ;SEE IF SENDING TO NODE IN OUR CLUSTER
DC 50 E8 0335 790 BLBS R0,6$ ;BRANCH IF YES
FE86 30 0338 791 8$: BSBW ALREADY_IN_LIST ;SEE IF THIS ONE ALREADY ENTERED
C2 50 E8 033B 792 BLBS R0,1$ ;IF SO, ALL DONE
30 AC DF 033E 793 PUSHAL TPA_L_LLNK(AP) ;SET ADDRESS OF RETURN ADDRESS BUFFER
53 44 AC D0 0341 794 MOVL TPA_L_CNCT(AP),R3 ;REFETCH CNCT BLOCK BECAUSE OF CMPC
53 DD 0345 795 PUSHL R3 ;STACK CNCT BLOCK ADDRESS
```



```
00000000'EF 3C AC 67 7F 0347 796 PUSHQ (R7) ;SET ADDRESS OF NODENAME DESCRIPTOR
00000000'EF 3C AC 7F 0349 797 PUSHQ TPA_Q_PNAM(AP) ;STACK PROTOCOL NAME ADDRESS
00000000'EF 59 50 04 FB 034C 798 CALLS #4,MAIL$CREATELINK ;CREATE A LOGICAL LINK TO THE NODE
00000000'EF 52 30 AC D0 0353 799 BLBC R0,9$ ;BRANCH IF FAILURE
00000000'EF 30 2E A2 02 E0 0356 800 MOVL TPA_L_LLNK(AP),R2 ;GET THE LNK BLOCK ADDRESS
00000000'EF 3C AC 05 E0 035A 801 BBS #LNK_V_ALTP,LNK_B_FLAGS(R2),81$ ;BRANCH IF ALTERNATE PROTOCOL
00000000'EF 2B 13 B5 035F 802 TSTW TPA_Q_PNAM(AP) ;NO--WAS PROTOCOL SPECIFIED?
00000000'EF 0362 803 BEQL 81$ ;IF EQL NO
00000000'EF 0364 804 ;
00000000'EF 0364 805 ; SPECIAL '%NODNAME::'TASK=' CONNECTION. WE MUST RECOMBINE THE NODE
00000000'EF 0364 806 ; AND USERNAME
00000000'EF 0364 807 ;
00000000'EF 5E FF01 CE 9E 0364 808 MOVAB -LNMSC_NAMLENGTH(SP),SP ;ALLOCATE A BUFFER
00000000'EF 58 5E D0 0369 809 MOVL SP,R8 ;SAVE ITS ADDRESS
00000000'EF 68 04 B7 67 BB 036C 810 PUSHR #M<R2,R3,R4,R5> ;SAVE SOME REGISTERS
00000000'EF 83 3A3A 8F B0 C377 811 MOVC3 (R7),@4(R7),(R8) ;COPY THE NODE NAME
00000000'EF 54 BC 50 AC 28 0373 812 TSTW (R7) ;WAS THERE A NODE NAME?
00000000'EF 50 AC 53 58 C3 0375 813 BEQL 801$ ;IF EQL NO
00000000'EF 54 AC 58 D0 0377 814 MOVW #A/::/,(R3)+ ;TERMINATE THE NODE NAME
00000000'EF 08 A3 9F 037C 815 801$: MOVC3 TPA_Q_UNAME(AP),@TPA_Q_UNAME+4(AP),(R3) ;AND THE USERNAME
00000000'EF 30 AC DD 0382 816 SUBL3 R8,R3,TPA_Q_UNAME(AP) ;CREATE NEW DESCRIPTOR OF USERNAME
00000000'EF 02 FB 0387 817 MOVL R8,TPA_Q_UNAME+4(AP)
00000000'EF 10 50 E9 038B 818 CLRQ (R7) ;AND CLEAR THE NODENAME
00000000'EF 50 AC DF 038D 819 POPR #M<R2,R3,R4,R5> ;RESTORE REGISTERS
00000000'EF 77 50 DD 038F 820 81$: PUSHAB CNCT_Q_FROMDESC(R3) ;STACK ADDR OF FROM DESCRIPTOR
00000000'EF 52 50 AC 9E 0392 821 PUSHL TPA_C_LNK(AP) ;STACK LOGICAL LINK ENTRY
00000000'EF 00A7 30 03 0395 822 CALLS #2,MAIL$NET_FROM ;SEND 'FROM' STRING
00000000'EF 04 50 E9 039C 823 BLBC R0,9$ ;BRANCH IF FAILURE
00000000'EF 1C A1 01 88 039F 824 PUSHAL TPA_Q_UNAME(AP) ;SET ADDRESS OF ADDRESSEE DESC
00000000'EF 002F 31 03A2 825 PUSHL TPA_L_LLNK(AP) ;SET ADDRESS OF LOGICAL LINK ENTRY
00000000'EF 50 AC 7D 03A5 826 CALLS #2,MAIL$NET_ADDR ;CHECK IF ADDRESSEE EXISTS
00000000'EF 27 50 E8 03AC 827 BLBS R0,CREATE_ADDR ;BR IF SUCCESS
00000000'EF 30 AC D0 03AF 828 9$: PUSHL R0 ;SAVE ERROR CODE
00000000'EF 13 50 E9 03B1 829 MOVAB TPA_Q_UNAME(AP),R2 ;GET USERNAME DESCR ADDR
00000000'EF 0A 0000'CO 32 11 03B5 830 BSBW CREATE_ENTRY ;ALLOCATE USERNAME BLOCK
00000000'EF 20 AC 50 D0 03B8 831 BLBC R0,91$ ;BRANCH IF ERROR
00000000'EF 50 01 88 03BB 832 BISB2 #ADR_M_NOSEND,ADR_B_FLAGS(R1) ;SET NOSEND TO THIS USER
00000000'EF 00000000'EF 01 FB 03BF 833 91$: POPL R0 ;RESTORE ERROR CODE
00000000'EF 00000000'EF 0A 0000'CO 32 11 03C2 834 92$: BRW 20$ ;
00000000'EF 50 AC 67 7D 03C5 835 ;
00000000'EF 67 7C 03C9 836 10$: MOVQ (R7),TPA_Q_UNAME(AP) ;MOVE USERNAME DESC TO COMMON DESC
00000000'EF FDF3 30 03CB 837 CLRQ (R7) ;CLEAR NODE NAME
00000000'EF 27 50 E8 03CE 838 BSBW ALREADY_IN_LIST ;SEE IF ALREADY ENTERED
00000000'EF 30 AC D4 03D1 839 15$: BLBS R0,25$ ;IF SO, ALL DONE
00000000'EF 50 AC 7F 03D4 840 CLRL TPA_L_LLNK(AP) ;LOCAL ADDRESSEE
00000000'EF 13 50 E9 03DE 841 PUSHQ TPA_Q_UNAME(AP) ;SET ADDRESS OF USERNAME DESC
00000000'EF 00000000'EF 01 FB 03D7 842 CALLS #1,MAIL$GET_USER ;CHECK IF USER EXISTS
00000000'EF 00000000'EF 0A 0000'CO 32 11 03E1 843 BLBC R0,20$ ;BRANCH IF USER DOES NOT EXIST
00000000'EF 20 AC 50 D0 03E8 844 MOVL MAIL$T_UAF_BUFF,R0 ;GET BUFFER ADDRESS
00000000'EF 50 01 D0 03EE 845 BBS #UAF$V_NOMAIL,- ;BRANCH IF MAIL DISABLED
00000000'EF 0A 0000'CO 32 11 03F2 846 UAF$L_FLAGS(R0),30$
00000000'EF 20 AC 50 D0 03F4 847 BRB CREATE_ADDR ;NOW ENTER IN ADDRESSEE LIST
00000000'EF 50 01 D0 03F8 848 20$: MOVL R0,TPA$L_PARAM(AP) ;SAVE FAILURE STATUS
00000000'EF 04 03FB 849 25$: MOVL #1,R0 ;SET SUCCESS TO CONTINUE PARSE
00000000'EF 03FC 851 RET ;
00000000'EF 03FC 852 ;
```



```
03FC 853 ; USER IS DISABLED FROM RECEIVING MAIL
03FC 854 ;
50 AC 9F 03FC 855 30$: PUSHAB TPA_Q_UNAME(AP) ;STACK ADDRESS OF NAME DESCRIPTOR
01 DD 03FF 856 PUSHL #1 ;STACK COUNT OF ARGUMENTS
007E8082 8F DD 0401 857 PUSHL #MAIL$_USERDSABL ;SIGNAL THAT USER CANNOT RECEIVE MAIL
00000000'GF 03 FB 0407 858 CALLS #3,G^LIB$SIGNAL
52 50 AC 9E 040E 859 MOVAB TPA_Q_UNAME(AP),R2 ;GET USERNAME DESCR ADDR
004A 30 0412 860 BSBW CREATE_ENTRY ;ALLOCATE USERNAME BLOCK
04 50 E9 0415 861 BLBC R0,35$- ;BRANCH IF ERROR
1C A1 01 88 0418 862 BISB2 #ADR_M_NOSEND,ADR_B_FLAGS(R1) ;SET NOSEND TO THIS USER
50 007E8082 8F D0 041C 863 35$: MOVL #MAIL$_USERDSABL,R0 ;SET RETURN STATUS
FFCE 31 0423 864 BRW 20$ ;GO RETURN
0426 865 .DISABLE LOCAL_BLOCK
0426 866 ;
0426 867 ; CREATE ADDRESSEE LIST ENTRY FOR ADDRESSEE
0426 868 ;
0426 869 CREATE_ADDR: ;CREATE ADDRESSEE LIST ENTRY
52 50 AC 9E 0426 870 MOVAB TPA_Q_UNAME(AP),R2 ;GET ADDR OF USERNAME DESCRIPTOR
0032 30 042A 871 BSBW CREATE_ENTRY ;CREATE THE ADR LIST ENTRY
1C 50 E9 042D 872 BLBC R0,10$- ;BR IF FAILURE
52 51 D0 0430 873 MOVL R1,R2 ;GET ADDR OF NEW ENTRY
30 AC D0 0433 874 MOVL TPA_L_LLNK(AP),- ;SET ADDR OF LOGICAL LINK ENTRY
08 A2 0436 875 ADR_L_LLNK(R2)
38 A3 D6 0438 876 INCL CNCT [ NADDRS(R3) ;COUNT ANOTHER ACTUAL ADDRESSEE
08 A2 DD 043B 877 ADR [ LNKC(R2) ;STACK LOGICAL LINK ENTRY
00000000'EF 01 FB 043E 878 CALLS #1,MAIL$INCLINKADR ;INCREMENT LINK ADDRESSEE COUNT IF NET
FD67 30 0445 879 BSBW RESET_LCOUNT ;RESET LOOP COUNTER
50 01 D0 0448 880 MOVL #1,R0 ;SET SUCCESS
04 044B 881 RET
044C 882 10$:
50 DD 044C 883 PUSHL R0 ;SET FAILURE STATUS
50 DD 044E 884 PUSHL R0 ;SAVE STATUS
00000000'GF 01 FB 0450 885 CALLS #1,G^LIB$SIGNAL ;SIGNAL THE FAILURE
20 AC 8E D0 0457 886 MOVL (SP)+,TPA$L_PARAM(AP) ;SAVE STATUS
50 01 D0 045B 887 MOVL #1,R0 ;SET SUCCESS TO CONTINUE PARSE
04 045E 888 RET
045F 889 ;
045F 890 ;
045F 891 ; ALLOCATE ENTRY AND LINK INTO LIST
045F 892 ;
045F 893 ; R2 = ADDR OF DESCRIPTOR OF USERNAME
045F 894 ; R3 = ADDR OF CNCT BLOCK
045F 895 ;
045F 896 CREATE_ENTRY:
01FC 8F BB 045F 897 PUSHR #M<R2,R3,R4,R5,R6,R7,R8>
57 52 7D 0463 898 MOVQ R2,R7 ;SAVE USERNAME DESCR. AND CNCT ADDR
7E 67 3C 0466 899 MOVZWL (R7),-(SP) ;GET LENGTH OF NAME
6E 1E C0 0469 900 ADDL2 #ADR_C_LENGTH,(SP) ;COMPUTE SIZE OF ENTRY
08 AE DF 046C 901 PUSHAL -(SP) ;SET RETURN ADDR BUFFER
00000000'GF 02 FB 046E 902 PUSHAL 8(SP) ;STACK ADDR OF SIZE
20 50 E9 0478 904 BLBC R0,10$- ;BRANCH IF ERROR
56 8E D0 047B 905 MOVL (SP)+,R6 ;GET ADDR OF NEW ENTRY
50 8ED0 047E 906 POPL R0
66 1E 00 6E 00 2C 0481 907 MOVCS #0,(SP),#0,#ADR_C_LENGTH,(R6) ;ZERO THE ENTRY
1E A6 04 B7 67 28 0487 908 MOVCS3 (R7),24(R7),ADR_T_NAME(R6) ;COPY USERNAME INTO BLOCK
1D A6 67 90 048D 909 MOV B (R7),ADR_B_NAMLEN(R6) ;SET ADDRESSEE NAME LENGTH
```

MAIL\$ADDRLIST
V04-000

ADDRESSEE LIST ROUTINES

ENTER_ADDR - ENTER ADDRESSEE IN

E 4

16-SEP-1984 00:43:35

VAX/VMS Macro V04-00

Page 19
(6)

5-SEP-1984 01:50:06

[MAIL.SRC]ADDRLIST.MAR;1

2C	B8	66	0E	0491	910	INSQUE	(R6),@CNCT_Q_ADRLST+4(R8) ; INSERT AT END OF LIST
	51	56	D0	0495	911	MOVL	R6,R1 ; SET ADDR OF BLOCK TO RETURN
	50	01	D0	0498	912	MOVL	#1,R0 ; SET RETURN STATUS
	01FC	8F	BA	049B	913	POPR	#^M<R2,R3,R4,R5,R6,R7,R8>; RESTORE REGISTERS
			05	049F	914	RSB	


```
04A0 916 .SBTTL GET_DIST_LIST - GET DISTRIBUTION LIST
04A0 917 :++
04A0 918 :
04A0 919 : GET_DIST_LIST - GET DISTRIBUTION LIST ACTION ROUTINE
04A0 920 :
04A0 921 : THIS ACTION ROUTINE IS CALLED TO OPEN AND READ A DISTRIBUTION LIST FILE.
04A0 922 :
04A0 923 : INPUTS:
04A0 924 :
04A0 925 :     TPA$L_TOKENCNT(AP) = SIZE OF FILE SPECIFICATION.
04A0 926 :     TPA$L_TOKENPTR(AP) = ADDR OF FILE SPECIFICATION.
04A0 927 :
04A0 928 : OUTPUTS:
04A0 929 :
04A0 930 :     EACH ADDRESSEE IS READ FROM THE DISTRIBUTION LIST FILE AND
04A0 931 :     ADDED TO THE ADDRESSEE LIST BY RECURSIVELY CALLING ADD_ADDR.
04A0 932 :     IF THIS IS THE FIRST (AND HENCE ONLY) ADDRESSEE ITEM IN THE
04A0 933 :     LIST, WE WILL MODIFY THE TO LIST TO CONTAIN THE FULL FILE SPEC.
04A0 934 :--
04A0 935 GET_DIST_LIST: ;GET DISTRIBUTION LIST
OFFC 04A0 936 :WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; (ENTRY MASK)
04A2 937 :
04A2 938 : CREATE A FAB AND A RAB
04A2 939 :
04A2 940 :     MOVAB -FAB$K_BLN(SP),R6 ;ALLOCATE FAB
04A6 941 :     MOVAB -RAB$K_BLN(R6),R7 ;ALLOCATE RAB
04AA 942 :     MOVAB -NAM$K_BLN(R7),R8 ;ALLOCATE NAM
04AE 943 :     MOVAB -NAM$C_MAXRSS(R8),R9 ;AND A BUFFER
04B3 944 :     MOVL R9,SP ;ALLOCATE THE SPACE
04B6 945 :     MOVCS #0,(SP),#0,-
04BA 946 :     #FAB$K_BLN+RAB$K_BLN+NAM$K_BLN+NAM$C_MAXRSS,(SP) ;ZERO FAB,RAB,NAM
04BE 947 :     ASSUME FAB$B_BLN EQ FAB$B_BID+1
04BE 948 :     MOVW #FAB$K_BLN@8!FAB$C_BID,- ;SET BLOCK LENGTH AND ID FIELDS
04C2 949 :     FAB$B_BID(R6)
04C3 950 :     BISB #FAB$M_GET,FAB$B_FAC(R6);GET ACCESS ONLY
04C7 951 :     BISL #FAB$M_SQO,FAB$C_FOP(R6) ;SET SEQUENTIAL ACCESS ONLY
04CF 952 :     MOVL R8,FAB$C_NAM(R6) ;SET NAM ADDRESS
04D3 953 :     MOVL #MAIL$ OPENIN,FAB$C_CTX(R6) ;SET ERROR CODE
04DB 954 :     ASSUME RAB$B_BLN EQ RAB$B_BID+1
04DB 955 :     MOVW #RAB$K_BLN@8!RAB$C_BID,- ;SET BLOCK LENGTH AND ID FIELDS
04DF 956 :     RAB$B_BID(R7)
04E0 957 :     ASSUME RAB$C_SEQ EQ 0
04E0 958 :     MOVL R6,RAB$C_FAB(R7) ;SET FAB ADDRESS
04E4 959 :     MOVL #MAIL$ OPENIN,RAB$C_CTX(R7)
04EC 960 :     ASSUME NAM$B_BLN EQ NAM$B_BID+1
04EC 961 :     MOVW #NAM$K_BLN@8!NAM$C_BID,- ;SET UP NAM BLOCK
04F0 962 :     NAM$B_BID(R8)
04F1 963 :     MOVL R9,NAM$C_RSA(R8)
04F5 964 :     MOVL R9,NAM$C_ESA(R8)
04F9 965 :     MOVB #NAM$C_MAXRSS,NAM$B_RSS(R8)
04FE 966 :     MOVB #NAM$C_MAXRSS,NAM$B_ESS(R8)
0503 967 :     MOVAB -MAIL$K_INBUFFSZ(SP),SP ;ALLOCATE USER BUFFER
0508 968 :     MOVW #MAIL$K_INBUFFSZ,RAB$C_USZ(R7) ;SET USER BUFFER SIZE
050E 969 :     MOVL SP,RAB$C_UBF(R7) ;SET USER BUFFER ADDRESS
0512 970 :
0512 971 : OPEN THE DISTRIBUTION LIST FILE
0512 972 :
```

```
34 A6 10 AC 90 0512 973      MOVB      TPA$L_TOKENCNT(AP),FAB$B_FNS(R6) ;SET FILE NAME SIZE
2C A6 14 AC  DO 0517 974      MOVL      TPA$L_TOKENPTR(AP),FAB$L_FNA(R6) ;SET FILE NAME ADDRESS
30 A6 00000000'EF 9E 051C 975      MOVAB     DIST_TYPE,FAB$L_DNA(R6) ;SET DEFAULT FILE NAME ADDRESS
      35 A6 04  90 0524 976      MOVB      #DIST_TYPE_SIZ,FAB$B_DNS(R6) ;SET DEFAULT FILE NAME SIZE
      12 50  E9 0528 977      $OPEN      FAB=(R6),ERR=UTIL$REPORT_IO_ERROR ;OPEN THE FILE
      03 50  E8 0537 978      BLBC      R0,5$ ;BR-IF FAILURE
      004A 31 053A 979      $CONNECT  RAB=(R7),ERR=UTIL$REPORT_IO_ERROR ;CONNECT THE RAB
      31 054C 981 5$:      BLBS      R0,10$ ;BRANCH ON SUCCESS
      054F 982      BRW      DIST_ERROR
      054F 983      ; IF THIS IS THE ONLY ITEM IN THE TO LIST, THEN MODIFY IT TO CONTAIN
      054F 984      ; RESULTANT FILE SPEC
      054F 985
      054F 986 10$::      TSTW      TPA_W_UENT(AP) ;ANYTHING ENTERED?
      054F 987      BNEQ      20$ ;YES--TOO BAD
      054F 988      PUSHL     R6 ;STACK FAB ADDRESS
      054F 989      CALLS     #1,G^UTIL$GETFILENAME ;GET FILE SPEC FOR FILE
      054F 990      PUSHAB    AT_STRING ;CREATE DESCRIPTOR
      054F 991      PUSHL     #1 ;OF 'a'
      054F 992      PUSHL     R0 ;STACK FILE DESCRIPTOR ADDRESS
      054F 993      PUSHAB    4(SP) ;PREFIX IT WITH 'a'
      054F 994      PUSHAB    MAIL$Q TO ;AND THE TO-LIST ADDRESS
      054F 995      CALLS     #3,G^STR$CONCAT ;MAKE A NEW TO-LIST
      054F 996
      054F 997      ; READ ALL THE ADDRESSEES AND ADD THEM TO THE ADDRESSEE LIST
      054F 998
      18 A7 007E10B2 8F DO 054F 999 20$:      MOVL      #MAIL$_READERR,RAB$L_CTX(R7)
      7E 7C 0557 1000      CLRQ      -(SP) ;CREATE ADDRESSEE DESC BUFFER
      0559 1001      DIST_LOOP:
      0559 1002      $GET      RAB=(R7),ERR=UTIL$REPORT_IO_ERROR ;GET A RECORD
      0568 1003      BLBC      R0,DIST_ERROR ;BR-IF EOF OR ERROR
      6E 2E 50  E9 056B 1004      MOVW      RAB$W_RSZ(R7),(SP) ;SET RECORD SIZE IN DESCRIPTOR
      22 A7  B0 056F 1005      BEQLU     DIST_LOOP ;SKIP BLANK LINES
      28 B7  E8 13 0571 1006      CMPB      #'A'-'T',@RAB$L_RBF(R7) ;IS RECORD A COMMENT?
      04 AE 28 A7 DO 0575 1007      BEQLU     DIST_LOOP ;BR IF YES - IGNORE IT
      00000000'EF 01 FB 0577 1008      MOVL      RAB$C_RBF(R7),4(SP) ;SET RECORD ADDRESS IN DESCRIPTOR
      44 AC DD 057C 1009      PUSHL     SP ;SET ADDRESS OF DESCRIPTOR
      04 AE 9F 057E 1010      CALLS     #1,MAIL$UPCASE_Q ;CONVERT RECORD TO UPPER CASE
      FAD5 CF 02 FB 0585 1011      PUSHL     TPA_L_CNCT(AP) ;STACK CNCT BLOCK ADDRESS
      20 AC 50  E8 0588 1012      PUSHAB    4(SP) ;SET ADDRESS OF DESCRIPTOR
      C6 50  E8 058B 1013      CALLS     #2,AT_LIST_ADD_ADDR ;ADD THE ADDRESSEE TO THE LIST
      50 01  DO 0590 1014      BLBS      R0,DIST_LOOP ;BR IF SUCCESS
      0593 1015      MOVL      R0,TPA$C_PARAM(AP) ;SAVE FAILURE STATUS
      0597 1016      BRB      DIST_LOOP
      0599 1017      ;
      0599 1018      ; ERROR ACCESSING THE FILE
      0599 1019      ;
      0599 1020      DIST_ERROR:
      0599 1021      CMPL      R0,#RMSS$ EOF ;END OF FILE?
      05A0 1022      BEQL     DIST_DONE ;YES, OK
      05A2 1023      MOVL      R0,TPA$C_PARAM(AP) ;NO, SET CODE
      05A6 1024      DIST_DONE:
      05A6 1025      $CLOSE     (R6) ;CLOSE THE FILE
      05AF 1026      MOVL      #1,R0 ;SET SUCCESS FOR PARSER
      05B2 1027      RET
      05B3 1028
```



```
05B3 1030 .SBTTL MAIL$ANY_ADDRESSEES - SEE IF ANY ADDRESSEES FOUND
05B3 1031 :++
05B3 1032 : FUNCTIONAL DESCRIPTION:
05B3 1033 :
05B3 1034 : LOOK THROUGH THE ADDRESSEE LIST AND SEE IF ANY FOUND
05B3 1035 : THAT WE WILL BE SENDING TO
05B3 1036 :
05B3 1037 : INPUTS:
05B3 1038 :
05B3 1039 : 4(AP) ADDRESS OF ADDRESSEE LISTHEAD
05B3 1040 :
05B3 1041 : ROUTINE VALUE:
05B3 1042 :
05B3 1043 : TRUE = THERE IS AT LEAST ONE
05B3 1044 : FALSE = NONE
05B3 1045 :
05B3 1046 :--
05B3 1047 :
05B3 1048 .ENTRY MAIL$ANY_ADDRESSEES, ^M<R2,R3>
05B5 1049 MOVL 4(AP),R1 ;GET ADDRESSEE LISTHEAD
05B9 1050 MOVL (R1),R2 ;GET FIRST ENTRY
05BC 1051 10$: CMPL R2,R1 ;SEE IF DONE
05BF 1052 BEQL 30$ ;BRANCH IF YES
05C1 1053 BBS #ADR_V_NOSEND,ADR_B_FLAGS(R2),20$ ;BRANCH IF NOSEND SET
05C6 1054 MOVL ADR_C_LNK(R2),R0 ;GET LOGICAL LINK DESCRIPTOR
05CA 1055 BEQL 40$ ;BRANCH IF NONE--WE FOUND ONE
05CC 1056 BBC #LNK_V_DEAD,LNK_B_FLAGS(R0),40$ ;BRANCH IF NOT DEAD--FOUND ONE
05D1 1057 20$: MOVL ADR_C_FLINK(R2),R2 ;GET NEXT ADDRESSEE
05D4 1058 BRB 10$ ;AND CONTINUE
05D6 1059 30$: CLRL R0 ;NONE FOUND
05D8 1060 RET
05D9 1061 40$: MOVL #1,R0
05DC 1062 RET
```

51 04 AC 000C 05B3 1048
52 61 D0 05B5 1049
51 52 D0 05B9 1050
15 13 05BC 1051 10\$:
OB 1C A2 00 E0 05C1 1053
50 08 A2 D0 05C6 1054
0D 13 05CA 1055
OB 2E A0 01 E1 05CC 1056
52 62 D0 05D1 1057 20\$:
E6 11 05D4 1058
50 D4 05D6 1059 30\$:
04 05D8 1060
50 01 D0 05D9 1061 40\$:
04 05DC 1062

```
05DD 1064 .SBTTL INITIALIZE ADDRESSEE LIST
05DD 1065 :++
05DD 1066 : FUNCTIONAL DESCRIPTION:
05DD 1067 :
05DD 1068 : INITIALIZE ADDRESSEE LIST BY REMOVING ANY OLD ENTRIES FROM
05DD 1069 : THE LIST.
05DD 1070 :
05DD 1071 : CALLING SEQUENCE:
05DD 1072 : CALL MAIL$INI_ADDR(CNCTDESC)
05DD 1073 :
05DD 1074 : INPUT PARAMETERS:
05DD 1075 : CNCTDESC = ADDRESS OF THE CONNECT DESCRIPTOR. IF THIS IS THE FIRST
05DD 1076 : CALL, THE ADRLST MUST BE INITIALIZED.
05DD 1077 :
05DD 1078 : IMPLICIT INPUTS:
05DD 1079 : NONE
05DD 1080 :
05DD 1081 : OUTPUT PARAMETERS:
05DD 1082 : NONE
05DD 1083 :
05DD 1084 : IMPLICIT OUTPUTS:
05DD 1085 : NONE
05DD 1086 :
05DD 1087 : COMPLETION CODES:
05DD 1088 : NONE
05DD 1089 :
05DD 1090 : SIDE EFFECTS:
05DD 1091 : ADDRESSEE AND LOGICAL LINK LIST ENTRIES REMOVED
05DD 1092 : AND DEALLOCATED.
05DD 1093 :
05DD 1094 :--
000C 05DD 1095 .ENTRY MAIL$INI_ADDR,- ;INITIALIZE ADDRESSEE LIST
05DF 1096 ^M<R2,R35 ;(ENTRY MASK)
53 04 AC D0 05DF 1097 MOVL 4(AP),R3 ;GET ADDRESS OF ADDRESSEE LIST
38 A3 D4 05E3 1098 CLRL CNCT_L_NADDRS(R3) ;INIT NUMBER OF ACTUAL ADDRESSEES
53 28 A3 9E 05E6 1099 MOVAB CNCT_Q_ADRLST(R3),R3 ;POINT TO THE ADDRESSEE LIST HEAD
52 00 B3 0F 05EA 1100 10$: REMQUE @R3,R2 ;GET NEXT ENTRY
04 1D 05EE 1101 BVS 20$ ;BR IF NONE
03 10 05F0 1102 BSBB DEALLOC_ENTRY ;DEALLOCATE THE ENTRY
F6 11 05F2 1103 BRB 10$ ;
04 05F4 1104 20$: RET ;
05F5 1105 ;
05F5 1106 ; DEALLOCATE AN ADDRESSEE LIST ENTRY
05F5 1107 ;
05F5 1108 DEALLOC_ENTRY:
05F5 1109 PUSHL R2 ;SET ADDR OF ENTRY
7E 1D A2 DD 05F7 1110 MOVZBL ADR B_NAMLEN(R2),-(SP) ;STACK LENGTH OF NAME
6E 1E C0 05FB 1111 ADDL2 #ADR C_LENGTH,(SP) ;COMPUTE SIZE OF BLOCK
04 AE DF 05FE 1112 PUSHAL 4(SP) ;SET ADDR OF ADDR OF ENTRY
04 AE DF 0601 1113 PUSHAL 4(SP) ;SET ADDR OF SIZE OF ENTRY
00000000 GF 02 FB 0604 1114 CALLS #2,G^LIB$FREE_VM ;DEALLOCATE ENTRY
5E 08 C0 060B 1115 ADDL2 #8,SP ;CLEAR TWO LONGWORDS FROM STACK
05 060E 1116 RSB ;
060F 1117 ;
060F 1118 .END
```


MAIL\$ADDRLIST
Symbol table

ADDRESSEE LIST ROUTINES

J 4

16-SEP-1984 00:43:35 VAX/VMS Macro V04-00
5-SEP-1984 01:50:06 [MAIL.SRC]ADDRLIST.MAR;1Page 24
(9)

\$\$\$CNT	= 00000003			CNCT-L_NADDRS	= 00000038		
\$\$\$FLG	= FFFFFFFF			CNCT-L_NRECS	= 00000064		
\$\$\$KEY	= FFFFFFFF			CNCT-L_SPARES	= 00000068		
\$\$\$KFG	= FFFFFFFF			CNCT-M_BLKMODE	= 00000004		
\$\$\$MOD	= 00000000			CNCT-M_DISCONNECT	= 00000001		
\$\$TMP1	= 00000001			CNCT-M_SQ	= 00000002		
\$\$TMP2	= 00000066			CNCT-Q_ADRLST	= 00000028		
\$\$GBL	= 00000000			CNCT-Q_CCDESC	= 00000020		
\$\$KEYTAB	= 00000000	R	05	CNCT-Q_ESDESC	= 00000054		
ACCESS_LIST	000000D0	R	04	CNCT-Q_FROMDESC	= 00000008		
ACCESS_SCAN	000000D2	R	04	CNCT-Q_IOSB	= 00000040		
ADDR	= 00000004			CNCT-Q_LNKLST	= 00000030		
ADDR_KEY	00000000	RG	05	CNCT-Q_SENDQ	= 0000005C		
ADDR_STATE	00000000	RG	04	CNCT-Q_SUBJDESC	= 00000018		
ADD_ADDR	00000072	R	03	CNCT-Q_TODESC	= 00000010		
ADRDEF	= 00000000			CNCT-S_ADRLST	= 00000008		
ADR_B_FLAGS	= 0000001C			CNCT-S_BUFFER	= 00000200		
ADR_B_NAMLNG	= 0000001D			CNCT-S_CCDESC	= 00000008		
ADR_C_LENGTH	= 0000001E			CNCT-S_CNCTDEF	= 00000286		
ADR_L_BLINK	= 00000004			CNCT-S_ESDESC	= 00000008		
ADR_L_FLINK	= 00000000			CNCT-S_FROMDESC	= 00000008		
ADR_L_LLNK	= 00000008			CNCT-S_IOSB	= 00000008		
ADR_L_SPARES	= 0000000C			CNCT-S_LNKLST	= 00000008		
ADR_M_NOSEND	= 00000001			CNCT-S_SENDQ	= 00000008		
ADR_S_ADRDEF	= 0000001E			CNCT-S_SPARES	= 00000018		
ADR_S_SPARES	= 00000010			CNCT-S_SUBJDESC	= 00000008		
ADR_T_NAME	= 0000001E			CNCT-S_TODESC	= 00000008		
ADR_V_NOSEND	= 00000000			CNCT-T_BUFFER	= 00000086		
ALREADY_IN_LIST	000001C1	R	03	CNCT-T_RAB	= 00000286		
AT_LIST_ADD_ADDR	00000065	R	03	CNCT-V_BLKMODE	= 00000002		
AT_STRING	00000004	R	02	CNCT-V_DISCONNECT	= 00000000		
CALL_TPARSE	00000133	R	03	CNCT-V_SQ	= 00000001		
CASE_BLIND	000001D9	R	03	CNCT-W_CHAN	= 00000082		
CHECK_ADDR	000002EF	R	03	CNCT-W_IOSB1	= 00000040		
CHECK_PROT	000002E2	R	03	CNCT-W_IOSB2	= 00000042		
CHECK_QUOTE	0000016A	R	04	CNCT-W_IOSB3	= 00000044		
CHECK_SEP	0000013E	R	04	CNCT-W_IOSB4	= 00000046		
CH_SPACE	= 00000020			COMM	= 0000002C		
CH_TAB	= 00000009			CREATE_ADDR	00000426	R	03
CNCTDEF	= 00000000			CREATE_ENTRY	0000045F	R	03
CNCT_B_FILRAT	= 00000080			DEALLOC_ENTRY	000005F5	R	03
CNCT_B_FILRFM	= 00000081			DIST_DONE	000005A6	R	03
CNCT_B_FLAGS	= 00000084			DIST_ERROR	00000599	R	03
CNCT_B_TRAN	= 00000085			DIST_LOOP	00000559	R	03
CNCT_C_BUFSIZ	= 00000200			DIST_PARSE	0000008A	R	04
CNCT_C_GETADDR	= 00000001			DIST_TYPE	00000000	R	02
CNCT_C_GETMSG	= 00000004			DIST_TYPE_SIZ	= 00000004		
CNCT_C_GETSENDER	= 00000000			ENTER_ADDR	000001DD	R	03
CNCT_C_GETSUBJ	= 00000003			FAB	= 00000004		
CNCT_C_GETTO	= 00000002			FAB\$B_BID	= 00000000		
CNCT_C_LENGTH	= 00000286			FAB\$B_BLN	= 00000001		
CNCT_L_BLINK	= 00000004			FAB\$B_DNS	= 00000035		
CNCT_L_FILERR	= 00000048			FAB\$B_FAC	= 00000016		
CNCT_L_FILESTS	= 0000004C			FAB\$B_FNS	= 00000034		
CNCT_L_FILESTV	= 00000050			FAB\$C_BID	= 00000003		
CNCT_L_FLINK	= 00000000			FAB\$K_BLN	= 00000050		
CNCT_L_MSGBLKS	= 0000003C			FAB\$L_CTX	= 00000018		

MAIL\$ADDRLIST
Symbol table

ADDRESSEE LIST ROUTINES

K 4

16-SEP-1984 00:43:35 VAX/VMS Macro V04-00
5-SEP-1984 01:50:06 [MAIL.SRC]ADDRLIST.MAR;1Page 25
(9)

FAB\$L_DNA	=	00000030		
FAB\$L_FNA	=	0000002C		
FAB\$L_FOP	=	00000004		
FAB\$L_NAM	=	00000028		
FAB\$M_GET	=	00000002		
FAB\$M_SQO	=	00000040		
FIND_ADDRESSEE		00000060	R	04
GETSYM1		0000012E	R	04
GET_DIST_LIST		000004A0	R	03
GET_SYMBOL		0000011E	R	04
LEGAL_SEP		00000144	R	04
LEGAL_SEP1		0000014E	R	04
LIB\$FREE_VM	*****		X	03
LIB\$GET_VM	*****		X	03
LIB\$SIGNAL	*****		X	03
LIB\$TPARSE	*****		X	03
LNKDEF	=	00000000		
LNK_B_FLAGS	=	0000002E		
LNK_B_NODLEN	=	0000002F		
LNK_B_PNLEN	=	0000004F		
LNK_C_IN_CHKUSER	=	0000000A		
LNK_C_IN_CONNECT	=	00000008		
LNK_C_IN_FILE	=	00000000		
LNK_C_IN_SENDER	=	00000009		
LNK_C_IN_SUBJ	=	0000000C		
LNK_C_IN_TO	=	0000000B		
LNK_C_IO_READ	=	0000000E		
LNK_C_IO_WRITE	=	0000000F		
LNK_C_LENGTH	=	00000050		
LNK_C_OUT_CHKSEND	=	00000006		
LNK_C_OUT_CHKUSER	=	00000002		
LNK_C_OUT_CONNECT	=	00000000		
LNK_C_OUT_DEACCESS	=	00000007		
LNK_C_OUT_FILE	=	00000005		
LNK_C_OUT_SENDER	=	00000001		
LNK_C_OUT_SUBJ	=	00000004		
LNK_C_OUT_TO	=	00000003		
LNK_L_ADRCNT	=	00000008		
LNK_L_BLINK	=	00000004		
LNK_L_CONTEXT	=	0000000C		
LNK_L_FLINK	=	00000000		
LNK_L_SPARES	=	00000020		
LNK_L_STS	=	0000001C		
LNK_L_TFRADR	=	00000010		
LNK_M_ALTP	=	00000004		
LNK_M_BLKMODE	=	00000010		
LNK_M_DEAD	=	00000002		
LNK_M_FSENT	=	00000008		
LNK_M_MSGSNT	=	00000001		
LNK_Q_IOSB	=	00000014		
LNK_S_IOSB	=	00000008		
LNK_S_LNKDEF	=	00000050		
LNK_S_NODE	=	0000001F		
LNK_S_SPARES	=	00000008		
LNK_T_NODE	=	00000030		
LNK_T_PNAM	=	00000050		
LNK_V_ALTP	=	00000002		

LNK_V_BLKMODE	=	00000004		
LNK_V_DEAD	=	00000001		
LNK_V_FSENT	=	00000003		
LNK_V_MSGSNT	=	00000000		
LNK_W_CHAN	=	0000002C		
LNK_W_MBXCHAN	=	0000002A		
LNK_W_SPAREW	=	00000028		
LNMS_C_NAMLENGTH	=	000000FF		
LNMS_C_CASE_BLIND	=	02000000		
LNMS_C_TERMINAL	=	00000200		
LNMS_ATTRIBUTES	=	00000003		
LNMS_STRING	=	00000002		
MAIFDEF	=	00000000		
MAIF_L_FLAGS	=	00000000		
MAIF_M_ALTP	=	00000400		
MAIF_M_ATTACHMENT	=	00080000		
MAIF_M_BATCH	=	00000200		
MAIF_M_CALEDT	=	00008000		
MAIF_M_CAPTIVE	=	00004000		
MAIF_M_CTRL CFL	=	00000100		
MAIF_M_DFMSG	=	00001000		
MAIF_M_EDTDT	=	00010000		
MAIF_M_EDTXYZ	=	00020000		
MAIF_M_FILOPN	=	00000800		
MAIF_M_ISAM	=	00000001		
MAIF_M_ITEM	=	00000004		
MAIF_M_NETJOB	=	00000002		
MAIF_M_OTERM	=	00000008		
MAIF_M_RDHOLD	=	00000020		
MAIF_M_READ_FL	=	00000040		
MAIF_M_RECL	=	00000080		
MAIF_M_SCOPE	=	00000010		
MAIF_M_SERVERLOOP	=	00040000		
MAIF_M_USEREDIT	=	00002000		
MAIF_S_MAIFDEF	=	00000004		
MAIF_V_ALTP	=	0000000A		
MAIF_V_ATTACHMENT	=	00000013		
MAIF_V_BATCH	=	00000009		
MAIF_V_CALEDT	=	0000000F		
MAIF_V_CAPTIVE	=	0000000E		
MAIF_V_CTRL CFL	=	00000008		
MAIF_V_DFMSG	=	0000000C		
MAIF_V_EDTDT	=	00000010		
MAIF_V_EDTXYZ	=	00000011		
MAIF_V_FILOPN	=	0000000B		
MAIF_V_ISAM	=	00000000		
MAIF_V_ITEM	=	00000002		
MAIF_V_NETJOB	=	00000001		
MAIF_V_OTERM	=	00000003		
MAIF_V_RDHOLD	=	00000005		
MAIF_V_READ_FL	=	00000006		
MAIF_V_RECL	=	00000007		
MAIF_V_SCOPE	=	00000004		
MAIF_V_SERVERLOOP	=	00000012		
MAIF_V_USEREDIT	=	0000000D		
MAIL\$ADDR_EXISTS	*****		X	03
MAIL\$ADD_ADDR	0000006E		RG	03

MAILSADDRLIST
Symbol table

ADDRESSEE LIST ROUTINES

L 4

16-SEP-1984 00:43:35 VAX/VMS Macro V04-00
5-SEP-1984 01:50:06 [MAIL.SRC]ADDRLIST.MAR;1Page 26
(9)

MAILSANY_ADDRESSEES
MAILSCHECK_FORW
MAILSCHK_CCUNODES
MAILSCRETELINK
MAILSDELETELINK
MAILSGET_USER
MAILSGL_FLAGS
MAILSINCLINKADR
MAILSINI_ADDR
MAILSK_INBUFSZ
MAILSNET_ADDR
MAILSNET_FROM
MAILSPRUNW_HANDLER
MAILSQ_SYSNODE
MAILSSD_LNM_FILE_DEV
MAILST_OAF_BUFF
MAILSUPCASE_Q
MAILS_CONABORT
MAILS_FACILITY
MAILS_FORWLOOP
MAILS_OPENIN
MAILS_READERR
MAILS_USERDSABL
MAIL_ADD_ADDR
NAMS8_BID
NAMS8_BLN
NAMS8_ESS
NAMS8_RSS
NAMSC_BID
NAMSC_MAXRSS
NAMSK_BLN
NAMSL_ESA
NAMSL_RSA
NEXT_ADDR
NODET_SPEC
NODE_SPEC
NODE_SPECC
NOT_QEOS
PROTOCOL_SPEC
QDIST_PARSE
QFILE_SPEC
QPROT_SPEC
QUOTED_SPEC
QUOTE_SPEC
QUSER_SPEC
RAB
RABS8_BID
RABS8_BLN
RABS8_BID
RABS8_SEQ
RABS8_BLN
RABSL_CTX
RABSL_FAB
RABSL_RBF
RABSL_UBF
RABSW_RSZ
RABSW_USZ

000005B3 RG 03
***** X 03
***** X 03
***** X 03
***** X 03
***** X 03
***** X 03
***** X 03
000005DD RG 03
= 000000FF
***** X 03
***** X 03
***** X 03
***** X 03
***** X 03
***** X 03
***** X 03
= 007E8112
= 0000007E
= 007E808A
= 007E109A
= 007E10B2
= 007E8082
00000000 R 03
= 00000000
= 00000001
= 0000000A
= 00000002
= 00000002
= 000000FF
= 00000060
= 0000000C
= 00000004
00000000 R 04
000000B6 R 04
000000C0 R 04
000000C4 R 04
000000A8 R 04
00000108 R 04
00000092 R 04
0000009E R 04
00000114 R 04
000000FE R 04
00000170 R 04
000000F6 R 04
= 00000008
= 00000000
= 00000001
= 00000001
= 00000000
= 00000044
= 00000018
= 0000003C
= 00000028
= 00000024
= 00000022
= 00000020

REPORT_SYNTAX_ERROR
RESET_COUNT
RMSS_EOF
SCAN_ADDR
SET_SPST
SHRSK_SHRDEF
SHRS_OPENIN
SHRS_READERR
SHRS_SYNTAX
SPEC_CONTINUE
SPEC_QUOTE
STORE_LOGNAME
STORE_PROTOCOL
STORE_UNAME
STSSK_ERROR
STSSK_WARNING
STSSV_FAC_NO
SYSSCLOSE
SYSSCONNECT
SYSSGET
SYSSOPEN
SYSTRNLNM
TPASK_COUNT0
TPASK_LENGTH0
TPASL_PARAM
TPASL_STRINGCNT
TPASL_STRINGPTR
TPASL_TOKENCNT
TPASL_TOKENPTR
TPAS_ALPHA
TPAS_ANY
TPAS_BLANK
TPAS_DECIMAL
TPAS_DIGIT
TPAS_EOS
TPAS_EXIT
TPAS_FAIL
TPAS_FILESPEC
TPAS_HEX
TPAS_IDENT
TPAS_KEYWORD
TPAS_LAMBDA
TPAS_MAXKEY
TPAS_OCTAL
TPAS_STRING
TPAS_SUBXPR
TPAS_SYMBOL
TPAS_UIC
TPA_C_EXTRA
TPA_L_CNCT
TPA_L_LCOUNT
TPA_L_LLNK
TPA_L_PTPA
TPA_L_SPST
TPA_M_TERMINAL
TPA_Q_LOGNAM
TPA_Q_ONAME

0000016F R D 03
000001AF R 03
***** X 03
00000074 R 04
0000015E R D 03
= 00000001
= 00001098
= 000010B0
= 000010F8
00000054 R 04
00C0017A R 04
000001A7 R 03
00000153 R 03
0000019F R 03
= 00000002
= 00000000
= 00000010
***** GX 03
***** GX 03
***** GX 03
***** GX 03
***** GX 03
= 00000008
= 00000024
= 00000020
= 00000008
= 0000000C
= 00000010
= 00000014
= 000001EE
= 000001ED
= 000001F2
= 000001F3
= 000001EF
= 000001F7
= FFFFFFFF
= FFFFFFFE
= 000001EA
= 000001F5
= 000001EC
= 00000100
= 000001F6
= 000000DC
= 000001F4
= 000001F0
= 000001F8
= 000001F1
= 000001EB
= 00000038
= 00000044
= 00000024
= 00000030
= 00000048
= 0000004C
= 00000001
= 00000034
= 00000028

TPA_Q_PNAM	=	0000003C		
TPA_Q_UNAME	=	00000050		
TPA_V_TERMINAL	=	00000000		
TPA_W_FLAGS	=	0000005A		
TPA_W_UENT	=	00000058		
UAFSL_FLAGS	*****		X	03
UAFSV_NOMAIL	*****		X	03
USER_SPEC	000000DA	R		04
UTIL\$REPORT_IO_ERROR	*****		X	03
VMDDEF	=	00000000		
VMD_B_DIRLNG	=	00000041		
VMD_B_FNMLNG	=	00000042		
VMD_B_FWDLNG	=	00000043		
VMD_B_SPARE1	=	0000003F		
VMD_C_LENGTH	=	00000044		
VMD_C_USERNAME	=	0000001F		
VMD_K_LENGTH	=	00000044		
VMD_K_USERNAME	=	0000001F		
VMD_L_SPARE	=	00000023		
VMD_M_NOAUTOPURGE	=	00000004		
VMD_M_SELFREPLY	=	00000002		
VMD_M_SELFSEND	=	00000001		
VMD_S_SPARE	=	0000001C		
VMD_S_SPARE1	=	00000002		
VMD_S_USERNAME	=	0000001F		
VMD_S_VMDDEF	=	00000044		
VMD_T_FWDNAM	=	00000044		
VMD_T_USERNAME	=	00000000		
VMD_V_NOAUTOPURGE	=	00000002		
VMD_V_SELFREPLY	=	00000001		
VMD_V_SELFSEND	=	00000000		
VMD_W_FLAGS	=	0000001F		
VMD_W_MAIL	=	00000021		

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes															
. ABS .	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE					
\$ABSS	00000000 (0.)	01 (1.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE					
\$PLITS	00000005 (5.)	02 (2.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	NOWRT	NOVEC	LONG					
\$CODE\$	0000060F (1551.)	03 (3.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	NOWRT	NOVEC	LONG					
_LIB\$STATES	00000182 (386.)	04 (4.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	BYTE					
_LIB\$KEY0\$	00000000 (0.)	05 (5.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	WORD					
_LIB\$KEY1\$	00000000 (0.)	06 (6.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	WORD					

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	37	00:00:00.06	00:00:02.43
Command processing	123	00:00:00.48	00:00:04.11
Pass 1	583	00:00:21.05	00:01:29.41

MAIL\$ADDRLIST
VAX-11 Macro Run Statistics

ADDRESSEE LIST ROUTINES

N 4

16-SEP-1984 00:43:35
5-SEP-1984 01:50:06

VAX/VMS Macro V04-00
[MAIL.SRC]ADDRLIST.MAR;1

Page 28
(9)

Symbol table sort	0	00:00:01.04	00:00:03.58
Pass 2	210	00:00:04.93	00:00:22.80
Symbol table output	45	00:00:00.22	00:00:00.76
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	1002	00:00:27.80	00:02:03.11

The working set limit was 2100 pages.

168433 bytes (329 pages) of virtual memory were used to buffer the intermediate code.

There were 60 pages of symbol table space allocated to hold 1096 non-local and 50 local symbols.

1118 source lines were read in Pass 1, producing 41 object records in Pass 2.

55 pages of virtual memory were used to define 42 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name

Macros defined

_ \$255\$DUA28:[MAIL.OBJ]MAILMAC.MLB;1
_ \$255\$DUA28:[SYS.OBJ]LIB.MLB;1
_ \$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

6
0
26
32

1483 GETS were required to define 32 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:ADDRLIST/OBJ=OBJ\$:ADDRLIST MSRC\$:ADDRLIST/UPDATE=(ENH\$:ADDRLIST)+EXECML\$/LIB+LIB\$:MAILMAC/LIB

0228 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

