```
MMM       MMM    AAAAAAAAA        IIIIIIIII     LLL
MMM       MMM    AAAAAAAAA        IIIIIIIII     LLL
MMM       MMM    AAAAAAAAA        IIIIIIIII     LLL
MMMMMM  MMMMMM   AAA        AAA       III       LLL
MMMMMM  MMMMMM   AAA        AAA       III       LLL
MMMMMM  MMMMMM   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    AAA        AAA       III       LLL
MMM       MMM    AAA        AAA       IIi       LLL
MMM       MMM    AAA        AAA       III       LLL
MMM       MMM    AAAAAAAAAAAAAAA      III       LLL
MMM       MMM    AAAAAAAAAAAAAAA      III       LLL
MMM       MMM    AAAAAAAAAAAAAAA      III       LLL
MMM       MMM    AAA        AAA       III       LLL
MMM       MMM    AAA        AAA       III       LLL
MMM       MMM    AAA        AAA       III       LLL
MMM       MMM    AAA        AAA    IIIIIIIII  LLLLLLLLLLLLLLL
MMM       MMM    AAA        AAA    IIIIIIIII  LLLLLLLLLLLLLLL
MMM       MMM    AAA        AAA    IIIIIIIII  LLLLLLLLLLLLLLL
```

```
 GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  NN      NN  EEEEEEEEEE  WW      WW
 GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  NN      NN  EEEEEEEEEE  WW      WW
GG         EE              TT      NN      NN  EE          WW      WW
GG         EE              TT      NN      NN  EE          WW      WW
GG         EE              TT      NNNN    NN  EE          WW      WW
GG         EE              TT      NNNN    NN  EE          WW      WW
GG         EEEEEEEE        TT      NN  NN  NN  EEEEEEEE    WW      WW
GG         EEEEEEEE        TT      NN  NN  NN  EEEEEEEE    WW      WW
GG  GGGGGG EE              TT      NN    NNNN  EE          WW  WW  WW
GG  GGGGGG EE              TT      NN    NNNN  EE          WW  WW  WW
GG     GG  EE              TT      NN      NN  EE          WWWW  WWWW
GG     GG  EE              TT      NN      NN  EE          WWWW  WWWW   ....
 GGGGGG    EEEEEEEEEE      TT      NN      NN  EEEEEEEEEE  WW      WW   ....
 GGGGGG    EEEEEEEEEE      TT      NN      NN  EEEEEEEEEE  WW      WW   ....
                                                                      ....

LL             IIIIII     SSSSSSSS
LL             IIIIII     SSSSSSSS
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
LLLLLLLLLL     IIIIII     SSSSSSSS
LLLLLLLLLL     IIIIII     SSSSSSSS
```

```
     1    0001   0 MODULE MAIL$GETNEW (
     2    0002   0           IDENT = 'V04-000'
     3    0003   0                 ) =
     4    0004   1 BEGIN
     5    0005   1
     6    0006   1 !
     7    0007   1 !******************************************************************
     8    0008   1 !*                                                                *
     9    0009   1 !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                      *
    10    0010   1 !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.       *
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    15    0015   1 !*   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY   OTHER *
    16    0016   1 !*   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
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    22    0022   1 !*   CORPORATION.                                                 *
    23    0023   1 !*                                                                *
    24    0024   1 !*   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
    25    0025   1 !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.      *
    26    0026   1 !*                                                                *
    27    0027   1 !*                                                                *
    28    0028   1 !******************************************************************
    29    0029   1 !
    30    0030   1
    31    0031   1 !++
    32    0032   1 ! FACILITY:     VAX/VMS MAIL UTILITY
    33    0033   1 !
    34    0034   1 ! ABSTRACT:     Find user's new mail count.  Used by LOGINOUT.
    35    0035   1 !
    36    0036   1 ! ENVIRONMENT:  NATIVE/USER MODE
    37    0037   1 !
    38    0038   1 ! AUTHOR: Benn Schreiber, CREATION DATE: 10-Jul-1983
    39    0039   1 !
    40    0040   1 ! MODIFIED BY:
    41    0041   1 !
    42    0042   1 !       V03-004 BLS0266          Benn Schreiber          26-Jan-1984
    43    0043   1 !               Correct username offset reference.
    44    0044   1 !
    45    0045   1 !       V03-003 BLS0260          Benn Schreiber          12-Jan-1984
    46    0046   1 !               Account for UAF$S_USERNAME being 32 bytes now.
    47    0047   1 !
    48    0048   1 !       V03-002 BLS0246          Benn Schreiber          8-Nov-1983
    49    0049   1 !               Move new mail count into VMSMAIL.DAT
    50    0050   1 !--
```

```
.    52           0051  1 !
.    53           0052  1 ! INCLUDE FILES
.    54           0053  1 !
.    55           0054  1     LIBRARY     'SYS$LIBRARY:LIB';
.    56           0055  1     REQUIRE     'SRC$:MAILREQ';
.    57           0201  1     LIBRARY     'LIB$:MAILDEF';
.    58           0202  1
.    59           0203  1 EXTERNAL ROUTINE
.    60           0204  1     UTIL$REPORT_IO_ERROR;                !Report io error
.    61           0205  1
.    62           0206  1 BIND
.    63           0207  1     VMSMAIL_DESC = $DESCRIPTOR('VMSMAIL') : $BBLOCK,
.    64           0208  1     SYSEXE_DESC = $DESCRIPTOR('SYS$SYSTEM:.DAT') : $BBLOCK;
```

```
    66      0209   1 GLOBAL ROUTINE MAIL$GET_NEW_COUNT(NEWCOUNT,UAFREC,SYSMAIREC) =
    67      0210   1 !++
    68      0211   1 ! FUNCTIONAL DESCRIPTION:
    69      0212   1 !
    70      0213   1 !       Return the count of new mail messages.
    71      0214   1 !
    72      0215   1 ! Inputs:
    73      0216   1 !
    74      0217   1 !       newcount = address of a longword to receive the new message count.
    75      0218   1 !                  returned as -1 if the mail file is sequential, rather than isam
    76      0219   1 !       uafrec = address of buffer containing SYSUAF record for user
    77      0220   1 !       sysmairec = (optional) address of buffer containing users' vmsmail rec.
    78      0221   1 !
    79      0222   1 ! Outputs:
    80      0223   1 !
    81      0224   1 !       longword pointed to by newcount contains number of new messages.
    82      0225   1 !
    83      0226   1 ! Routine value:
    84      0227   1 !
    85      0228   1 !       1 if success, failure code if error
    86      0229   1 !
    87      0230   1 ! All errors signalled.
    88      0231   1 !
    89      0232   1 !--
    90      0233   2 BEGIN
    91      0234   2 MAP
    92      0235   2     NEWCOUNT : REF VECTOR[,LONG],
    93      0236   2     UAFREC : REF $BBLOCK,
    94      0237   2     SYSMAIREC : REF $BBLOCK;
    95      0238   2
    96      0239   2 BUILTIN
    97      0240   2     NULLPARAMETER;
    98      0241   2
    99      0242   2 LOCAL
   100      0243   2     SYSMAIFAB : $FAB_DECL,
   101      0244   2     SYSMAIRAB : $RAB_DECL,
   102      0245   2     STATUS,
   103      0246   2     USEBUF : REF $BBLOCK,
   104      0247   2     SYSMAIBUF : $BBLOCK[VMD_C_USERNAME+3*NAM$C_MAXRSS];
   105      0248   2
   106      0249   2 NEWCOUNT[0] = 0;
   107      0250   2 STATUS = TRUE;
   108      0251   2
   109      0252   2 IF NOT NULLPARAMETER(3)
   110      0253   2 THEN USEBUF = .SYSMAIREC
   111      0254   3 ELSE BEGIN
   112      0255   3     USEBUF = SYSMAIBUF;
   113      0256   3     !
   114      0257   3     ! Need to open VMSMAIL to find  new mail count
   115      0258   3     !
   116    P 0259   3     $FAB_INIT(FAB=SYSMAIFAB,
   117    P 0260   3         FAC=GET,
   118    P 0261   3         FNS=.VMSMAIL_DESC[DSC$W_LENGTH],
   119    P 0262   3         FNA=.VMSMAIL_DESC[DSC$A_POINTER],
   120    P 0263   3         DNS=.SYSEXE_DESC[DSC$W_LENGTH],
   121    P 0264   3         DNA=.SYSEXE_DESC[DSC$A_POINTER],
   122      0265   3         SHR=(GET,PUT,DEL,UPD));
```

```
;  123          0266   3           SYSMAIFAB[FAB$V_LNM_MODE] = PSL$C_EXEC;
;  124          0267   3           STATUS = $OPEN(FAB=SYSMAIFAB);
;  125          0268   3
;  126          0269   3
;  127        P 0270   3           $RAB_INIT(RAB=SYSMAIRAB,
;  128        P 0271   3               FAB=SYSMAIFAB,
;  129        P 0272   3               RAC=KEY,
;  130        P 0273   3               ROP=(RLK,NLK),
;  131        P 0274   3               KRF=0,
;  132        P 0275   3               KSZ=VMD_C_USERNAME,
;  133        P 0276   3               KBF=SYSMAIBUF,
;  134        P 0277   3               RBF=SYSMAIBUF,
;  135        P 0278   3               USZ=VMD_C_LENGTH+3*NAM$C_MAXRSS,
;  136          0279   3               UBF=SYSMAIBUF);
;  137          0280   3
;  138          0281   3           IF .STATUS
;  139          0282   3               THEN STATUS = $CONNECT(RAB=SYSMAIRAB);
;  140          0283   3
;  141          0284   3           IF NOT .STATUS
;  142          C285   3               AND  .STATUS EQL RMS$_CRMP
;  143          0286   4               THEN STATUS = (SYSMAIFAB[FAB$W_GBC] = 0;
;  144          0287   3                                       $CONNECT(RAB=SYSMAIRAB));
;  145          0288   3               !
;  146          0289   3               ! Read the user's VMSMAIL record
;  147          0290   3               !
;  148          0291   3           CH$COPY(MINU(UAF$S_USERNAME,VMD_C_USERNAME),UAFREC[UAF$T_USERNAME],
;  149          0292   3                       ' ',VMD_C_USERNAME,SYSMAIBUF);
;  150          0293   3           SYSMAIBUF[VMD_B_DIRLNG] = 0;
;  151          0294   3           IF .STATUS
;  152          0295   3               THEN STATUS = $GET(RAB=SYSMAIRAB);
;  153          0296   3           $CLOSE(FAB=SYSMAIFAB);
;  154          0297   2           END;
;  155          0298   2
;  156          0299   2   IF .STATUS
;  157          0300   2       THEN NEWCOUNT[0] = .SYSMAIBUF[VMD_W_MAIL];
;  158          0301   2
;  159          0302   2   RETURN .STATUS
;  160          0303   1   END;
;
```

```
                                               .TITLE   MAIL$GETNEW
                                               .IDENT   \V04-000\

                                               .PSECT   $CODE$,NOWRT,2

              4C  49  41  4D  53  4D  56  00000 P.AAB:  .ASCII   \VMSMAIL\
                                          00007         .BLKB    1
                              00000007    00008 P.AAA:  .LONG    7
                              00000000'   0000C         .ADDRESS P.AAB
54  41  44  2E  3A  4D  45  54  53  59  53  24  53  59  53  00010 P.AAD:  .ASCII   \SYS$SYSTEM:.DAT\
                                          0001F         .BLKB    1
                              0000000F    00020 P.AAC:  .LONG    15
                              00000000'   00024         .ADDRESS P.AAD

                                               VMSMAIL_DESC=       P.AAA
                                               SYSEXE_DESC=        P.AAC
                                               .EXTRN   UTIL$REPORT_IO_ERROR
```

MAIL$GETNEW   E 16
V04-000   16-Sep-1984 00:53:12   VAX-11 Bliss-32 V4.0-742   Page 5
                    14-Sep-1984 12:42:18   DISK$VMSMASTER:[MAIL.SRC]GETNEW.B32;1   (3)

```
                                                .EXTRN    SYS$OPEN, SYS$CONNECT
                                                .EXTRN    SYS$GET, SYS$CLOSE

                          01FC 00000            .ENTRY    MAIL$GET_NEW_COUNT, Save R2,R3,R4,R5,R6,R7,-;  0209
                                                          R8
                  58 00000000G  00  9E 00002    MOVAB     SYS$CONNECT, R8
                  57         D8  AF  9E 00009    MOVAB     VMSMAIL_DESC+4, R7
                  5E       FC50  CE  9E 0000D    MOVAB     -944(SP), SP
                            04  BC  D4 00012     CLRL      @NEWCOUNT                              0249
                            56      01  D0 00015 MOVL      #1, STATUS                             0250
                            03      6C  91 00018 CMPB      (AP), #3                               0252
                                    0C  1F 0001B BLSSU     1$
                        0C  AC      D5 0001D     TSTL      12(AP)
                            07      13 00020     BEQL      1$
                    50  0C  AC      D0 00022     MOVL      SYS$AIREC, USEBUF                       0253
                          00C8     31 00026      BRW       5$
                    50      6E  9E 00029  1$:     MOVAB     SYS$AIBUF, USEBUF                      0255
0050  8F    00    6E      00  2C 0002C          MOVC5     #0, (SP), #0, #80, $RMS_PTR             0265
                        B0  AD      00033
                  B0  AD  5003  8F  B0 00035     MOVW      #20483, $RMS_PTR
                  C6  AD  0F02  8F  B0 0003B     MOVW      #3842, $RMS_PTR+22
                  CF  AD      02  90 00041       MOVB      #2, $RMS_PTR+31
                  DC  AD      67  D0 00045       MOVL      VMSMAIL_DESC+4, $RMS_PTR+44
                  E0  AD  18  A7  D0 00049       MOVL      SYSEXE_DESC+4, $RMS_PTR+48
                  E4  AD  FC  A7  90 0004E       MOVB      VMSMAIL_DESC, $RMS_PTR+52
                  E5  AD  14  A7  90 00053       MOVB      SYSEXE_DESC, $RMS_PTR+53
FA    AD    02    00      01  F0 00058           INSV      #1, #0, #2, SYS$AIFAB+74               0267
                        B0  AD  9F 0005E         PUSHAB    SYS$AIFAB                              0268
            00000000G  00  01  FB 00061          CALLS     #1, SYS$OPEN
                            56      50  D0 00068 MOVL      R0, STATUS
0044  8F    00    6E      00  2C 0006B          MOVC5     #0, (SP), #0, #68, $RMS_PTR             0279
                        FF6C  CD      00072
                  FF6C  CD  4401  8F  B0 00075   MOVW      #17409, $RMS_PTR
                  FF70  CD 00180000 8F D0 0007C  MOVL      #1572864, $RMS_PTR+4
                  8A  AD      01  90 00085       MOVB      #1, $RMS_PTR+30
                  8C  AD  0341  8F  B0 00089     MOVW      #833, $RMS_PTR+32
                  90  AD      6E  9E 0008F       MOVAB     SYS$AIBUF, $RMS_PTR+36
                  94  AD      6E  9E 00093       MOVAB     SYS$AIBUF, $RMS_PTR+40
                  9C  AD      6E  9E 00097       MOVAB     SYS$AIBUF, $RMS_PTR+48
                  A0  AD      1F  90 0009B       MOVB      #31, $RMS_PTR+52
                  A8  AD      B0  AD  9E 0009F   MOVAB     SYS$AIFAB, $RMS_PTR+60
                            0D      56  E9 000A4 BLBC      STATUS, 2$                             0281
                        FF6C  CD  9F 000A7       PUSHAB    SYS$AIRAB                              0282
                            68      01  FB 000AB CALLS     #1, SYS$CONNECT
                            56      50  D0 000AE MOVL      R0, STATUS
                            16      56  E8 000B1 BLBS      STATUS, 3$                             0284
              0001C14C  8F  56  D1 000B4  2$:    CMPL      STATUS, #115020                        0285
                            0D      12 000BB     BNEQ      3$
                        F8  AD  B4 000BD         CLRW      SYS$AIFAB+72                            0286
                        FF6C  CD  9F 000C0       PUSHAB    SYS$AIRAB                              0287
                            68      01  FB 000C4 CALLS     #1, SYS$CONNECT
                            56      50  D0 000C7 MOVL      R0, STATUS
                    50  08  AC      D0 000CA 3$: MOVL      UAFREC, R0                             0291
              6E    04  A0      1F  28 000CE     MOVC3     #31, 4(R0), SYS$AIBUF
                            41  AE  94 000D3     CLRB      SYS$AIBUF+65                            0293
                            0E      56  E9 000D6 BLBC      STATUS, 4$                             0294
                        FF6C  CD  9F 000D9       PUSHAB    SYS$AIRAB                              0295
```

```
             00000000G  00          01  FB  000DD          CALLS   #1, SYS$GET
                        56          50  D0  000E4          MOVL    R0, STATUS
                                80  AD  9F  000E7 4$:       PUSHAB  SYS$MAIFAB                             ; 0296
             00000000G  00          01  FB  000EA          CALLS   #1, SYS$CLOSE
                        05          56  E9  000F1 5$:       BLBC    STATUS, 6$                             ; 0299
                    04  BC      21  AE  3C  000F4          MOVZWL  SYS$MAIBUF+33, @NEWCOUNT                ; 0300
                        50          56  D0  000F9 6$:       MOVL    STATUS, R0                             ; 0302
                                    04  000FC          RET                                             ; 0303
```

; Routine Size: 253 bytes,   Routine Base: $CODE$ + 0028

; 162   0304 0 END ELUDOM

PSECT SUMMARY

        Name   Bytes   Attributes

; $CODE$ 293 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

	-------- Symbols --------			Pages	Processing
File	Total	Loaded	Percent	Mapped	Time
_255DUA28:[SYSLIB]LIB.L32;1	18619	92	0	1000	00:01.4
_255DUA28:[MAIL.OBJ]MAILDEF.L32;1	457	4	0	26	00:00.4

COMMAND QUALIFIERS

;   BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:GETNEW/OBJ=OBJ$:GETNEW MSRC$:GETNEW/UPDATE=(ENH$:GETNEW)

; Size: 253 code + 40 data bytes
; Run Time: 00:07.4
; Elapsed Time: 00:41.4
; Lines/CPU Min: 2468
; Lexemes/CPU-Min: 47139
; Memory Used: 138 pages
; Compilation Complete

CMDS
LIS

DIRECTORY
LIS

SPAWNCMD
CLD

MAILREQ
REQ

EDIT
LIS

GETUSER
LIS

MAILDEF
SDL

ADDRLIST
LIS

GETNEW
LIS