
MMM MMM TTTTTTTTTTTTTTT AAAAAAAAA AAAAAAAAA CCCCCCCCCCCC PPPPPPPPPPPP
MMM MMM TTTTTTTTTTTTTTT AAAAAAAAA AAAAAAAAA CCCCCCCCCCCC PPPPPPPPPPPP
MMM MMM TTTTTTTTTTTTTTT AAAAAAAAA AAAAAAAAA CCCCCCCCCCCC PPPPPPPPPPPP
MMMMMM MMMMMM TTT AAA AAA AAA AAA CCC PPP PPP
MMMMMM MMMMMM TTT AAA AAA AAA AAA CCC PPP PPP
MMMMMM MMMMMM TTT AAA AAA AAA AAA CCC PPP PPP
MMM MMM MMM TTT AAA AAA AAA AAA CCC PPP PPP
MMM MMM MMM TTT AAA AAA AAA AAA CCC PPP PPP
MMM MMM MMM TTT AAA AAA AAA AAA CCC PPP PPP
MMM MMM TTT AAA AAA AAA AAA CCC PPPPPPPPPPPP
MMM MMM TTT AAA AAA AAA AAA CCC PPPPPPPPPPPP
MMM MMM TTT AAA AAA AAA AAA CCC PPPPPPPPPPPP
MMM MMM TTT AAAAAAAAAAAAAAA AAAAAAAAAAAAAAA CCC PPP
MMM MMM TTT AAAAAAAAAAAAAAA AAAAAAAAAAAAAAA CCC PPP
MMM MMM TTT AAAAAAAAAAAAAAA AAAAAAAAAAAAAAA CCC PPP
MMM MMM TTT AAA AAA AAA AAA CCC PPP
MMM MMM TTT AAA AAA AAA AAA CCC PPP
MMM MMM TTT AAA AAA AAA AAA CCC PPP
MMM MMM TTT AAA AAA AAA AAA CCCCCCCCCCCC PPP
MMM MMM TTT AAA AAA AAA AAA CCCCCCCCCCCC PPP
MMM MMM TTT AAA AAA AAA AAA CCCCCCCCCCCC PPP

**FILE**ID**MAIL

```
MM      MM    AAAAAA      IIIIII    LL
MM      MM    AAAAAA      IIIIII    LL
MMMM  MMMM   AA    AA      II      LL
MMMM  MMMM   AA    AA      II      LL
MM  MM  MM   AA    AA      II      LL
MM  MM  MM   AA    AA      II      LL
MM      MM   AA    AA      II      LL
MM      MM   AA    AA      II      LL
MM      MM   AAAAAAAAAA    II      LL
MM      MM   AAAAAAAAAA    II      LL
MM      MM   AA    AA      II      LL              ....
MM      MM   AA    AA      II      LL              ....
MM      MM   AA    AA    IIIIII    LLLLLLLLLL      ....
MM      MM   AA    AA    IIIIII    LLLLLLLLLL      ....

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
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
;     1        0001  0
;     2        0002  0 MODULE MAIL (LANGUAGE (BLISS32)
;     3        0003  0                 IDENT = 'V04-000'
;     4        0004  0                 ) =
;     5        0005  1 BEGIN
;     6        0006  1 !
;     7        0007  1 !**************************************************************************
;     8        0008  1 !*                                                                        *
;     9        0009  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                              *
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;    26        0026  1 !*                                                                        *
;    27        0027  1 !*                                                                        *
;    28        0028  1 !**************************************************************************
;    29        0029  1
;    30        0030  1 !++
;    31        0031  1 !
;    32        0032  1 ! FACILITY:  MTAACP
;    33        0033  1 !
;    34        0034  1 ! ABSTRACT:
;    35        0035  1 !       This module handles reading from the mailbox and enabling mailbox ast's.
;    36        0036  1 !
;    37        0037  1 !
;    38        0038  1 ! ENVIRONMENT:
;    39        0039  1 !
;    40        0040  1 !       Starlet operating system, including privileged system services
;    41        0041  1 !       and internal exec routines.
;    42        0042  1 !
;    43        0043  1 !--
;    44        0044  1
;    45        0045  1 !
;    46        0046  1 !
;    47        0047  1 ! AUTHOR:  D. H. GILLESPIE,      CREATION DATE:  31-OCT-77
;    48        0048  1 !
;    49        0049  1 ! MODIFIED BY:
;    50        0050  1 !
;    51        0051  1 !       V02-004 DMW00019        David Michael Walp      26-May-1981
;    52        0052  1 !               Calculate correct size of mailbox message.  Change in
;    53        0053  1 !               meassage format from OPCOM.
;    54        0054  1 !
;    55        0055  1 !       V02-003 REFORMAT        Maria del C. Nasr       30-Jun-1980
;    56        0056  1 !
;    57        0057  1 !**
```

```
;    58          0058  1
;    59          0059  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;    60          0060  1
;    61          0061  1 REQUIRE 'SRC$:MTADEF.B32';
;    62          0445  1
;    63          0446  1 FORWARD ROUTINE
;    64          0447  1
;    65          0448  1     CHECK_MAIL          : COMMON_CALL NOVALUE,  ! Check mailbox for reply
;    66          0449  1                                                 !   from operator
;    67          0450  1     ENABLE_MAIL_AST     : COMMON_CALL NOVALUE;  ! enable ast's from mailbox
;    68          0451  1
;    69          0452  1 EXTERNAL ROUTINE
;    70          0453  1     DO_CANCEL           : COMMON_CALL,          ! cancel all outstanding IO
;    71          0454  1     REQUEST_UNBLOCK     : COMMON_CALL,          ! request unblock unless
;    72          0455  1                                                 !   cancel requested
;    73          0456  1     SYS$QIOW            : ADDRESSING_MODE (ABSOLUTE);
;    74          0457  1                                                 ! queue IO request and wait
;    75          0458  1
;    76          0459  1 EXTERNAL
;    77          0460  1     MAIL_CHANNEL,                               ! mailbox channel number
;    78          0461  1     IO_STATUS,                                  ! status of IO
;    79          0462  1     WORK_AREA;                                  ! work area defined in OPRCOM
;    80          0463  1
;    81          0464  1 BIND
;    82          0465  1     MAIL    = WORK_AREA : BBLOCK [MSGSIZE],
;    83          0466  1     MAILSZ = WORK_AREA + MSGSIZE;
;    84          0467  1
```

```
;    86          0468  1 GLOBAL ROUTINE CHECK_MAIL : COMMON_CALL NOVALUE =
;    87          0469  1
;    88          0470  1 !++
;    89          0471  1 !
;    90          0472  1 ! FUNCTIONAL DESCRIPTION:
;    91          0473  1 !       This routine checks for reply from operator in mailbox.
;    92          0474  1 !
;    93          0475  1 ! CALLING SEQUENCE:
;    94          0476  1 !       CHECK_MAIL(), called either as an AST routine or before hibernating
;    95          0477  1 !
;    96          0478  1 ! INPUT PARAMETERS:
;    97          0479  1 !       none
;    98          0480  1 !
;    99          0481  1 ! IMPLICIT INPUTS:
;   100          0482  1 !       mailbox input
;   101          0483  1 !
;   102          0484  1 ! OUTPUT PARAMETERS:
;   103          0485  1 !       none
;   104          0486  1 !
;   105          0487  1 ! IMPLICIT OUTPUTS:
;   106          0488  1 !       Depending on the reply, the blocked request is either canceled,
;   107          0489  1 !       aborted, or continued.
;   108          0490  1 !       mailsz - size of operator text
;   109          0491  1 !       mail - contains mailbox message with operator text
;   110          0492  1 !
;   111          0493  1 ! ROUTINE VALUE:
;   112          0494  1 !       none
;   113          0495  1 !
;   114          0496  1 ! SIDE EFFECTS:
;   115          0497  1 !       none
;   116          0498  1 !
;   117          0499  1 ! USER ERRORS:
;   118          0500  1 !       none
;   119          0501  1 !
;   120          0502  1 !--
;   121          0503  1
;   122          0504  2     BEGIN
;   123          0505  2
;   124          0506  2     LITERAL
;   125          0507  2         CR          = 13,               ! carriage return
;   126          0508  2         LF          = 10,               ! linefeed
;   127          0509  2         CR_LF_LEN   = 2;                ! lenght of <CRLF>
;   128          0510  2
;   129          0511  2     BIND
;   130          0512  2         CR_LF       = UPLIT BYTE ( CR, LF );
;   131          0513  2                                         ! <CRLF> string
;   132          0514  2
;   133          0515  2     EXTERNAL REGISTER
;   134          0516  2         COMMON_REG;
;   135          0517  2
;   136          0518  2     LOCAL
;   137          0519  2         STATUS      : LONG,             ! system service status
;   138          0520  2         VCB         : REF BBLOCK,       ! address of volume control block
;   139          0521  2         START_TEXT  : LONG,             ! pointer to start of oper reply text
;   140          0522  2         POINTER     : LONG;             ! pointer into the operator reply
;   141          0523  2
;   142          0524  2     ! Read the mailbox and if nothing there exit immediately
```

```
;  143          0525  2      !
;  144        P 0526  2      STATUS = $QIOW( EFN = EFN,
;  145        P 0527  2                      CHAN = .MAIL_CHANNEL,
;  146        P 0528  2                      FUNC =  IO$_READLBLK OR IO$M_NOW,       ! don't wait for reply
;  147        P 0529  2                      IOSB = IO_STATUS,
;  148        P 0530  2                      P1 = MAIL,
;  149          0531  2                      P2 = MSGSIZE );
;  150          0532  2      IF NOT .STATUS THEN IO_STATUS = .STATUS;
;  151          0533  2
;  152          0534  2      IF .IO_STATUS EQL SS$_ENDOFFILE THEN RETURN;
;  153          0535  2
;  154          0536  2      ! The other errors that can show up are programming problems:
;  155          0537  2      ! SS$_NOPRIV,SS$_ACCVIO,SS$_MBTOOSML
;  156          0538  2      !
;  157          0539  2      IF NOT .IO_STATUS THEN BUG_CHECK(ACPMBFAIL);
;  158          0540  2
;  159          0541  2      ! Setup size of operator text.  The operator's typed in text starts 8
;  160          0542  2      ! bytes ( request ID and other reply info ) from the start of the message.
;  161          0543  2      ! The operator text ends with a <CRLF>.  The rest of the message is the
;  162          0544  2      ! %OPCOM line.
;  163          0545  2      !
;  164          0546  2      START_TEXT  = MAIL + $BYTEOFFSET(OPC$L_MS_TEXT);
;  165          0547  2      POINTER     = CH$FIND_SUB ( .IO_STATUS<16,16> - $BYTEOFFSET(OPC$L_MS_TEXT),
;  166          0548  2                                  .START_TEXT, CR_LF_LEN, CR_LF );
;  167          0549  3      MAILSZ      = ( IF CH$FAIL ( .POINTER )
;  168          0550  3                        THEN 0
;  169          0551  4                        ELSE ( .POINTER - .START_TEXT )
;  170          0552  2                    );
;  171          0553  2
;  172          0554  2      ! Now since all AST's are delivered at once upon receipt to one reply
;  173          0555  2      ! reenable AST's on this mailbox
;  174          0556  2      !
;  175          0557  2      ENABLE_MAIL_AST();
;  176          0558  2
;  177          0559  2      ! The reply id is the VCB address, if not VCB block then ignore message
;  178          0560  2      !
;  179          0561  2      VCB = .MAIL[OPC$L_MS_RPLYID];
;  180          0562  2      IF .VCB[VCB$B_TYPE] NEQ DYN$C_VCB THEN RETURN;
;  181          0563  2
;  182          0564  2      ! Now examine message to see what the reply contains if request is pending
;  183          0565  2      ! then ignore operator reply.
;  184          0566  2      !
;  185          0567  2      STATUS = OPC$_RQSTPEND;
;  186          0568  2
;  187          0569  2      IF .STATUS<0,16> EQL .MAIL[OPC$W_MS_STATUS] THEN RETURN;
;  188          0570  2
;  189          0571  2      ! If this volume is not waiting for volume mount then there is the
;  190          0572  2      ! possibility that a CANCEL_OP_REPLY failed and the cancel was completed
;  191          0573  2      ! before receipt of either a completion or cancel reply
;  192          0574  2      !
;  193          0575  2      IF NOT .VCB[VCB$V_WAIMOUVOL] THEN RETURN;
;  194          0576  2
;  195          0577  2      ! If the request was successful or canceled then unblock the process
;  196          0578  2      ! checking that the cancel of IO takes place if requested
;  197          0579  2      !
;  198          0580  2      IF .MAIL[OPC$W_MS_STATUS] OR .VCB[VCB$V_CANCELIO]
;  199          0581  2      THEN
```

```
;  200          0582  3          BEGIN
;  201          0583  3          REQUEST_UNBLOCK(.VCB);
;  202          0584  3          RETURN;                                 ! returns only if cancel done
;  203          0585  2          END;
;  204          0586  2
;  205          0587  2      ! The only case left is that the operator aborted the request
;  206          0588  2      !
;  207          0589  2      CURRENT_VCB = .VCB;
;  208          0590  2      ERROR(SS$_ABORT);
;  209          0591  2      KERNEL_CALL(DO_CANCEL);
;  210          0592  1      END;                                        ! end of routine

                                                        .TITLE  MAIL
                                                        .IDENT  \V04-000\

                                                        .PSECT  $CODE$,NOWRT,2

                                        0A  0D  00000 P.AAA:    .BYTE   13, 10                                  ;

                                                CR_LF=                  P.AAA
                                                        .EXTRN  DO_CANCEL, REQUEST_UNBLOCK
                                                        .EXTRN  SYS$QIOW, MAIL_CHANNEL
                                                        .EXTRN  IO_STATUS, WORK_AREA
                                                        .EXTRN  BUG$_ACPMBFAIL, USER_STATUS
                                                        .EXTRN  SYS$CMKRNL

                                          00FC 00000            .ENTRY  CHECK_MAIL, Save R2,R3,R4,R5,R6,R7      ; 0468
                                57      0000G  CF  9E 00002     MOVAB   IO_STATUS, R7                           ;
                                56      0000G  CF  9E 00007     MOVAB   MAIL+2, R6                              ;
                                               7E  7C 0000C     CLRQ    -(SP)                                   ; 0531
                                               7E  7C 0000E     CLRQ    -(SP)                                   ;
                                7E        7C   8F  9A 00010     MOVZBL  #124, -(SP)                             ;
                                          FE   A6  9F 00014     PUSHAB  MAIL                                    ;
                                               7E  7C 00017     CLRQ    -(SP)                                   ;
                                               57  DD 00019     PUSHL   R7                                      ;
                                7E        61   8F  9A 0001B     MOVZBL  #97, -(SP)                              ;
                                        0000G  CF  DD 0001F     PUSHL   MAIL_CHANNEL                            ;
                                               01  DD 00023     PUSHL   #1                                      ;
                          00000000G     00       0C  FB 00025     CALLS   #12, SYS$QIOW                          ;
                                        55       50  D0 0002C     MOVL    R0, STATUS                             ;
                                        03       55  E8 0002F     BLBS    STATUS, 1$                             ; 0532
                                        67       55  D0 00032     MOVL    STATUS, IO_STATUS                      ;
                          00000870      8F       67  D1 00035 1$: CMPL    IO_STATUS, #2160                       ; 0534
                                                 74  13 0003C     BEQL    8$                                     ;
                                        04       67  E8 0003E     BLBS    IO_STATUS, 2$                          ; 0539
                                                   FEFF 00041     BUGW                                           ;
                                                  0000* 00043     .WORD   <BUG$_ACPMBFAIL!4>                      ;
                                        54     06  A6  9E 00045 2$: MOVAB   MAIL+8, START_TEXT                   ; 0546
                                        50     02  A7  3C 00049     MOVZWL  IO_STATUS+2, R0                        ; 0547
                                        50         08  C2 0004D     SUBL2   #8, R0                                 ;
64                      50        AA    AF       02  39 00050     MATCHC  #2, CR_LF, R0, (START_TEXT)            ;
                                                 03  13 00056     BEQL    3$                                     ;
                                        53       02  D0 00058     MOVL    #2, R3                                 ;
                                        53       02  C2 0005B 3$: SUBL2   #2, R3                                 ;
                                                 04  12 0005E     BNEQ    4$                                     ; 0549
                                                 53  D4 00060     CLRL    R3                                     ;
```

```
                                        03  11 00062                BRB     5$                                                      ;
                                53      54  C2 00064 4$:            SUBL2   START_TEXT, R3                                          ; 0551
                             7A A6      53  D0 00067 5$:            MOVL    R3, MAILSZ                                              ; 0549
                          0000V CF      00  FB 0006B                CALLS   #0, ENABLE_MAIL_AST                                     ; 0557
                                52  02  A6  D0 00070                MOVL    MAIL+4, VCB                                             ; 0561
                                11  0A  A2  91 00074                CMPB    10(VCB), #17                                            ; 0562
                                        38  12 00078                BNEQ    8$                                                      ;
                                55 00058021 8F  D0 0007A            MOVL    #360481, STATUS                                         ; 0567
                                66      55  B1 00081                CMPW    STATUS, MAIL+2                                          ; 0569
                                        2C  13 00084                BEQL    8$                                                      ;
                        27   0B  A2      02  E1 00086                BBC     #2, 11(VCB), 8$                                         ; 0575
                                05      66  E8 0008B                BLBS    MAIL+2, 6$                                              ; 0580
                        08   0B  A2      05  E1 0008E                BBC     #5, 11(VCB), 7$                                         ;
                                        52  DD 00093 6$:            PUSHL   VCB                                                     ; 0583
                          0000G CF      01  FB 00095                CALLS   #1, REQUEST_UNBLOCK                                     ;
                                        04  0009A                    RET                                                             ; 0582
                                5B      52  D0 0009B 7$:            MOVL    VCB, CURRENT_VCB                                        ; 0589
                          0000G CF      2C  B0 0009E                MOVW    #44, USER_STATUS                                        ; 0590
                                        7E  D4 000A3                CLRL    -(SP)                                                   ; 0591
                                        5E  DD 000A5                PUSHL   SP                                                      ;
                                    0000G CF  9F 000A7              PUSHAB  DO_CANCEL                                               ;
                    00000000G   9F          03  FB 000AB            CALLS   #3, @#SYS$CMKRNL                                        ;
                                        04  000B2 8$:               RET                                                             ; 0592

; Routine Size:  179 bytes,    Routine Base:  $CODE$ + 0002
```

```
;  212          0593  1 GLOBAL ROUTINE ENABLE_MAIL_AST : COMMON_CALL NOVALUE =
;  213          0594  1
;  214          0595  1 !++
;  215          0596  1 !
;  216          0597  1 ! FUNCTIONAL DESCRIPTION:
;  217          0598  1 !       This routine enables AST's on the mailbox channel
;  218          0599  1 !
;  219          0600  1 ! CALLING SEQUENCE:
;  220          0601  1 !       ENABLE_MAIL_AST()
;  221          0602  1 !
;  222          0603  1 ! INPUT PARAMETERS:
;  223          0604  1 !       none
;  224          0605  1 !
;  225          0606  1 ! IMPLICIT INPUTS:
;  226          0607  1 !       none
;  227          0608  1 !
;  228          0609  1 ! OUTPUT PARAMETERS:
;  229          0610  1 !       none
;  230          0611  1 !
;  231          0612  1 ! IMPLICIT OUTPUTS:
;  232          0613  1 !       AST declaration for mailbox enabled
;  233          0614  1 !
;  234          0615  1 ! ROUTINE VALUE:
;  235          0616  1 !       none
;  236          0617  1 !
;  237          0618  1 ! SIDE EFFECTS:
;  238          0619  1 !       none
;  239          0620  1 !
;  240          0621  1 ! USER ERRORS:
;  241          0622  1 !       none
;  242          0623  1 !
;  243          0624  1 !--
;  244          0625  1
;  245          0626  2     BEGIN
;  246          0627  2
;  247          0628  2     EXTERNAL REGISTER
;  248          0629  2         COMMON_REG;
;  249          0630  2
;  250          0631  2     BIND
;  251          0632  2         SECONDS = UPLIT (-70000000, -1);
;  252          0633  2
;  253          0634  2     LOCAL
;  254          0635  2         STATUS;
;  255          0636  2
;  256          0637  2     ! This enables an AST when mail is placed in the operator communication
;  257          0638  2     ! mailbox
;  258          0639  2     !
;  259          0640  2     WHILE 1 DO
;  260          0641  3         BEGIN
;  261          0642  3
;  262        P 0643  3         STATUS = $QIOW( CHAN = .MAIL_CHANNEL,
;  263        P 0644  3                         FUNC = IO$_SETMODE,
;  264        P 0645  3                         IOSB = IO_STATUS,
;  265        P 0646  3                         P1 = CHECK_MAIL,
;  266          0647  3                         P3 = EXEC_MODE );
;  267          0648  3
;  268          0649  3         IF NOT .STATUS THEN IO_STATUS = .STATUS;
```

```
;  269          0650  3
;  270          0651  3          IF .IO_STATUS NEQ SS$_INSFMEM THEN EXITLOOP;
;  271          0652  3
;  272          0653  4          IF $SETIMR(EFN = TIMEFN, DAYTIM = SECONDS)
;  273          0654  3          THEN
;  274          0655  3              $WAITFR(EFN = TIMEFN);
;  275          0656  3
;  276          0657  2          END;
;  277          0658  2
;  278          0659  1      END;                                    ! end of routine


                                        000B5                .BLKB   3
                             FFFFFFFF   FBD3E280  000B8 P.AAB: .LONG   -70000000, -1                                  ;

                                                  SECONDS=           P.AAB
                                                  .EXTRN  SYS$SETIMR, SYS$WAITFR

                                          000C 00000          .ENTRY  ENABLE_MAIL_AST, Save R2,R3                      ; 0593
                             53     0000G CF   9E 00002          MOVAB   IO_STATUS, R3                                   ;
                                          7E   7C 00007 1$:       CLRQ    -(SP)                                       ; 0647
                             7E           01   7D 00009          MOVQ    #1, -(SP)                                   ;
                                          7E   D4 0000C          CLRL    -(SP)                                       ;
                                   FF30   CF   9F 0000E          PUSHAB  CHECK_MAIL                                  ;
                                          7E   7C 00012          CLRQ    -(SP)                                       ;
                                          53   DD 00014          PUSHL   R3                                          ;
                                          23   DD 00016          PUSHL   #35                                         ;
                                   0000G  CF   DD 00018          PUSHL   MAIL_CHANNEL                                ;
                                          7E   D4 0001C          CLRL    -(SP)                                       ;
                        00000000G  00          0C   FB 0001E          CALLS   #12, SYS$QIOW                           ;
                                   52          50   D0 00025          MOVL    R0, STATUS                              ;
                                   03          52   E8 00028          BLBS    STATUS, 2$                              ; 0649
                                   63          52   D0 0002B          MOVL    STATUS, IO_STATUS                       ;
                        00000124   8F          63   D1 0002E 2$:      CMPL    IO_STATUS, #292                         ; 0651
                                               1C   12 00035          BNEQ    3$                                      ;
                                               7E   7C 00037          CLRQ    -(SP)                                   ; 0653
                                         BC    AF   9F 00039          PUSHAB  SECONDS                                 ;
                                               03   DD 0003C          PUSHL   #3                                      ;
                        00000000G  00          04   FB 0003E          CALLS   #4, SYS$SETIMR                          ;
                                   BF          50   E9 00045          BLBC    R0, 1$                                  ;
                                               03   DD 00048          PUSHL   #3                                      ; 0655
                        00000000G  00          01   FB 0004A          CALLS   #1, SYS$WAITFR                          ;
                                               B4   11 00051          BRB     1$                                      ; 0640
                                                    04 00053 3$:      RET                                             ; 0659

; Routine Size:  84 bytes,    Routine Base:  $CODE$ + 00C0

;  279          0660  1
;  280          0661  1 END
;  281          0662  1
;  282          0663  0 ELUDOM
```

```
;                                   PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  $CODE$                         276  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                                 Library Statistics
;
;                                          -------- Symbols --------      Pages       Processing
;       File                               Total    Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1           18619        23         0      1000          00:01.9


;                                   COMMAND QUALIFIERS
;
;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:MAIL/OBJ=OBJ$:MAIL MSRC$:MAIL/UPDATE=(ENH$:MAIL)
;
; Size:         263 code + 13 data bytes
; Run Time:         00:09.6
; Elapsed Time:     00:25.3
; Lines/CPU Min:     4152
; Lexemes/CPU-Min: 21651
; Memory Used:  111 pages
; Compilation Complete
```

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

LOCKDB LIS

LOGIO LIS

MATCHNAME LIS

IODONE LIS

LOCKDN LIS

NXTVOL LIS

MAIL LIS

MOUVOL LIS

OPRCOM LIS

INIMTA LIS

MODIFY LIS

PARSE LIS