


```
MM      MM      AAAAAA      IIIIII      LL      RRRRRRRR      EEEEEEEEEE      QQQQQQ
MM      MM      AAAAAA      IIIIII      LL      RRRRRRRR      EEEEEEEEEE      QQQQQQ
MMMM    MMMM    AA      AA      II      LL      RR      RR      EE      QQ      QQ
MMMM    MMMM    AA      AA      II      LL      RR      RR      EE      QQ      QQ
MM      MM      AA      AA      II      LL      RR      RR      EE      QQ      QQ
MM      MM      AA      AA      II      LL      RR      RR      EE      QQ      QQ
MM      MM      AA      AA      II      LL      RRRRRRRR      EEEEEEEEEE      QQ      QQ
MM      MM      AA      AA      II      LL      RRRRRRRR      EEEEEEEEEE      QQ      QQ
MM      MM      AAAAAAAAAA      II      LL      RR      RR      EE      QQ      QQ
MM      MM      AAAAAAAAAA      II      LL      RR      RR      EE      QQ      QQ
MM      MM      AA      AA      II      LL      RR      RR      EE      QQ      QQ
MM      MM      AA      AA      II      LL      RR      RR      EE      QQ      QQ
MM      MM      AA      AA      IIIIII      LLLLLLLLLL      RRRRRRRR      EEEEEEEEEE      QQQQ      QQ
MM      MM      AA      AA      IIIIII      LLLLLLLLLL      RR      RR      EEEEEEEEEE      QQQQ      QQ
      . . . .
      . . . .
      . . . .
```

```
RRRRRRR      EEEEEEEEEE      QQQQQQ
RRRRRRR      EEEEEEEEEE      QQQQQQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RRRRRRR      EEEEEEEEEE      QQ      QQ
RRRRRRR      EEEEEEEEEE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EEEEEEEEEE      QQQQ      QQ
RR      RR      EEEEEEEEEE      QQQQ      QQ
```

Version: 'V04-000'

```

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```

```

++
FACILITY: VAX/VMS MAIL UTILITY
ABSTRACT: MAIL REQUIRE FILE
ENVIRONMENT: NATIVE/USER MODE
AUTHOR: LEN KAWELL, CREATION DATE:
MODIFIED BY:

```

```

V03-002 BLS0255 Benn Schreiber 28-Dec-1983
Remove old definitions, add implied_new flag
V03-001 BLS0246 Benn Schreiber 28-Nov-1983
Add bit to flag confirmation.
--

```

```

:
: MACROS:
MACRO
MAIL$V_FACILITY =
(MAIL$FACILITY ^ $BITPOSITION(ST$V_FAC_NO))%
! MAIL facility (should be $M_)
MACRO
DESCRIPTOR [] =
UPLIT(%CHARCOUNT(%REMAINING),UPLIT BYTE(%REMAINING))%
! String descriptor
MACRO
DYN_DESC DECL =
BLOCK[8,BYTE] PRESET ([DSC$B_CLASS] = DSC$K_CLASS_D,
[DSC$B_DTYPE] = DSC$K_DTYPE_T)%
MACRO
INIT_DDESC(D) =
BEGIN
D[DSC$W_LENGTH] = 0;
D[DSC$B_CLASS] = DSC$K_CLASS_D;
D[DSC$B_DTYPE] = DSC$K_DTYPE_T;
D[DSC$A_POINTER] = 0;
END%
! Init dynamic string descriptor
INIT_SDESC(D) =
BEGIN
D[DSC$W_LENGTH] = 0;
D[DSC$B_CLASS] = 0;
D[DSC$B_DTYPE] = 0;
D[DSC$A_POINTER] = 0;
END%
!Init static string descriptor
MACRO
IF_ERR(EXP,ERREXP1,ERREXP2) =
BEGIN
LOCAL STATUS;
STATUS = EXP
IF NOT .STATUS
THEN
BEGIN
ERREXP1 ERREXP2
END;
END%
! CHECK FOR ERROR AND
! EXECUTE ERROR HANDLING IF
! AN ERROR DOES OCCUR
MACRO
UPCASE(DESC) =
BEGIN
EXTERNAL ROUTINE MAIL$UPCASE;
MAIL$UPCASE(DESC);
END%
! Uppcase a string
MACRO
CS_COUNT = 0,8,0%
CS_STRING = 8,0,0%
! Counted string count field
! Counted string string field
:
: Macro to generate descriptors names SD_string
:
MACRO
SD[A] =
BIND %NAME('SD_',A) = $DESCRIPTOR(A)%
:
: $FAB_DEV - macro to access FAB$L_DEV bits of FAB block.
:

```

```
MACRO
  $fab dev(dev bit) =
    $BYTEOFFSET(fab$l dev),
    $BITPOSITION(%NAME('dev$v_',dev_bit)),1,0%;
```

```
MACRO
  debug_print(string) =
    BEGIN
      EXTERNAL ROUTINE LIB$PUT OUTPUT;
      LIB$PUT_OUTPUT($DESCRIPTOR(string));
    ENDX;
```

```
! EQUATED SYMBOLS:
```

```
LITERAL
  TRUE           = 1,           ! True
  FALSE          = 0,           ! False

  CR             = 13,          ! ASCII Carriage Return
  LF             = 10,          ! ASCII Line Feed
  FF             = 12,          ! ASCII Form Feed
  CTRLZ          = 26,          ! ASCII CTRL/Z
  ESC            = 27,          ! ASCII Escape
  COMMA          = 44,          ! ASCII Comma

  MAIL$K_INBUFFSZ = 512;       ! Input buffer size
```

```
! Define flags used for parsing message selection qualifiers
```

```
MACRO
  QUAL_BEFORE = 0,0,1,0%,      !/BEFORE
  QUAL_SINCE  = 0,1,1,0%,      !/SINCE
  QUAL_FILE   = 0,2,1,0%,      !/FILE
  QUAL_FROM   = 0,3,1,0%,      !/FROM
  QUAL_NEW    = 0,4,1,0%,      !/NEW
  QUAL_REPLIED = 0,5,1,0%,     !/REPLIED
  QUAL_ANYQUAL = 0,0,6,0%,     !Test if any qual selected
  QUAL_IMPLIED_NEW = 0,0,7,0%; !/NEW IMPLIED, default to filename
```

```
SWITCHES ADDRESSING_MODE(EXTERNAL=GENERAL, NONEXTERNAL=GENERAL);
```

```
PSECT
  CODE = $CODE$ (ADDRESSING_MODE(GENERAL)),
  OWN = $OWNS$ (ADDRESSING_MODE(GENERAL)),
  GLOBAL = $GLOBAL$ (ADDRESSING_MODE(GENERAL)),
  PLI = $CODE$ (ADDRESSING_MODE(GENERAL));
```

