



```
VV      VV  MM      MM      SSSSSSSS  MM      MM      AAAAAA      CCCCCCCC
VV      VV  MM      MM      SSSSSSSS  MM      MM      AAAAAA      CCCCCCCC
VV      VV  MMMM     MMMM     SS          MMMM     MMMM     AA          AA      CC
VV      VV  MMMM     MMMM     SS          MMMM     MMMM     AA          AA      CC
VV      VV  MM      MM      SS          MM      MM      AA          AA      CC
VV      VV  MM      MM      SS          MM      MM      AA          AA      CC
VV      VV  MM      MM      SSSSSS     MM      MM      AA          AA      CC
VV      VV  MM      MM      SSSSSS     MM      MM      AA          AA      CC
VV      VV  MM      MM      SS          MM      MM      AAAAAAAAAA  CC
VV      VV  MM      MM      SS          MM      MM      AAAAAAAAAA  CC
VV      VV  MM      MM      SS          MM      MM      AA          AA      CC
VV      VV  MM      MM      SS          MM      MM      AA          AA      CC
VV      VV  MM      MM      SSSSSSSS  MM      MM      AA          AA      CCCCCCCC
VV      VV  MM      MM      SSSSSSSS  MM      MM      AA          AA      CCCCCCCC
```

```
RRRRRRR  EEEEEEEEE  QQQQQQ
RRRRRRR  EEEEEEEEE  QQQQQQ
RR      RR  EE          QQ      QQ
RR      RR  EE          QQ      QQ
RR      RR  EE          QQ      QQ
RR      RR  EE          QQ      QQ
RRRRRRR  EEEEEEEEE  QQ      QQ
RRRRRRR  EEEEEEEEE  QQ      QQ
RR      RR  EE          QQ      QQ
RR      RR  EE          QQ      QQ
RR      RR  EE          QQ      QQ
RR      RR  EE          QQ      QQ
RR      RR  EEEEEEEEE  QQQQ  QQ
RR      RR  EEEEEEEEE  QQQQ  QQ
```

XPRINT ('File: VMSMAC.B32, Version V04-000, Edit 1, WWC, 09-JAN-1978')

Version V04-000

```
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```

++  
FUNCTIONAL DESCRIPTION:

This require file defines BLISS macros and literals to be used  
by routines which call or otherwise use various features of VAX/VMS.

--  
+  
\$BYTE\_MASK - a macro which calculates a one-byte bit mask given a  
BLISS byte block field definition.

\$BYTE\_MASK( definition )

where:

"definition" is the BLISS definition of a field

-  
+  
MACRO

\$BYTE\_MASK( L, B, S, X ) =  
1<sup>X</sup>(B+S) - 1<sup>A</sup>B %;

+  
\$SHR\_MESSAGES - a macro which defines facility-specific message codes  
which are based on the system-wide shared message codes.

\$SHR\_MESSAGES( name, code, (msg,severity), ... )

where:

```

!
! "name" is the name of the facility (e.g., COPY)
! "code" is the corresponding facility code (e.g., 103)
! "msg" is the name of the shared message (e.g., BEGIN)
! "severity" is the desired message severity (e.g., 1, 0, 2, 4)
!
!+

```

## MACRO

```

$SHR_MESSAGES( FACILITY_NAME, FACILITY_CODE ) =
  [ LITERAL
  SHR$MSG_IDS( FACILITY_NAME, FACILITY_CODE, %REMAINING ); %,
  SHR$MSG_IDS( FACILITY_NAME, FACILITY_CODE ) [ VALUE ] =
  SHR$MSG_CALC( FACILITY_NAME, FACILITY_CODE, %REMOVE(VALUE) ) %,
  SHR$MSG_CALC( FACILITY_NAME, FACILITY_CODE, MSG_ID, SEVERITY ) =
  %NAME( FACILITY_NAME, '$', MSG_ID ) = %NAME( 'SHR$', MSG_ID ) + FACILITY_CODE*65536 +
  %IF %DECLARED( %NAME( 'STSSK', SEVERITY ) )
  %THEN %NAME( 'STSSK', SEVERITY )
  %ELSE SEVERITY %FI %;

```

```

!+
!
!
!
!
!-

```

\$FAB\_DEV - a macro which defines a single FAB\$DEV bit.

```
$FAB_DEV( bit_name )
```

where:

"bit\_name" is a 3-character device bit name

## MACRO

```

$FAB_DEV( BIT_NAME ) =
  FAB$DEV( FAB$DEV, %NAME( 'DEV$V_', BIT_NAME ) ) %,
  FAB$DEV( FAB_BYTE, FAB_BIT, FAB_SIZE, FAB_SIGN, DEV_DISP, DEV_BIT, DEV_SIZE, DEV_SIGN ) =
  FAB_BYTE, DEV_BIT, DEV_SIZE, DEV_SIGN %;

```

This image displays a grid of 100 terminal window screenshots, arranged in 10 rows and 10 columns. Each window shows a different system utility or data display from the VAX/VMS V4.0 environment. The windows are densely packed and contain various types of information, including:

- System status reports and logs.
- Configuration files and system parameters.
- Data tables and lists.
- Diagnostic messages and error reports.
- System management commands and their outputs.

Several windows are clearly labeled with titles such as:

- COPYMSG REQ
- COPY
- COPYMAP
- VMSMAC REQ
- COPYREQ
- COPYCLI LIS
- COPYMAIN LIS
- COPYSEMAN LIS
- COPYSPECS LIS

The overall appearance is that of a multi-user terminal session, with each window representing a different user's or process's view of the system.