


```
MM      MM      SSSSSSSS  GGGGGGGG
MM      MM      SSSSSSSS  GGGGGGGG
MMM     MMM     SS          GG
MMM     MMM     SS          GG
MM  MM  MM      SS          GG
MM  MM  MM      SS          GG
MM      MM      SSSSSS     GG      GGGGGG
MM      MM      SSSSSS     GG      GGGGGG
MM      MM          SS      GG      GG
MM      MM          SS      GG      GG
MM      MM          SS      GG      GG
MM      MM      SSSSSSSS  GGGGGG
MM      MM      SSSSSSSS  GGGGGG
```

```
....
....
....
....
```

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



%SBTTL 'Required file for MESSAGE source modules'

Require file for all modules in the message compiler

Version: 'V04-000'

```
*****
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```

++ FACILITY: MESSAGE compiler

ABSTRACT:

This is the common require file for all modules in the message compiler.

ENVIRONMENT:

VAX/VMS operating system, unprivileged user mode utility, operates at non-AST level.

AUTHOR: Tim Halvorsen, Nov 1979

MODIFIED BY:

- V03-002 GJA0052 Greg Awdziejewicz 23-Nov-1983
Add size literal and field definitions for the queue of input file specifications.
Add subtitles.
Add error code for parsefail.
- V03-001 BLS0168 Benn Schreiber 2-Apr-1982
Do not require MSGDEF as it is now in STARLET and LIB

005
005
006
006
006
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015

MSG.REQ;1

%SBTTL 'Internal definitions'

! !

Define message structure definitions

REQUIRE 'LIBS:MSGINT.B32'; ! Message compiler internal definitions

CVT

PRC

C
1
4
5
6
7

ENT

C

VAR

4
6
8
2

ARR

7
6
5
4
3
2
1

LAE

C
C

```
!
! ZSBTTL 'Required file for MESSAGE source modules'
!
! Define fields for the queue element for an input filename and
! define a literal for size of the element:
!
```

```
FIELD
```

```
info_queue_flds =
```

```
SET
```

```
queue_flink = [0, 0, 32, 0],      ! Forward link for queue.
queue_blink = [4, 0, 32, 0],      ! Backward link.
name_desc = [8, 0, 0, 0],         ! Descriptor for filename:
name_length = [8, 0, 16, 0],      ! ... length subfield,
name_addr = [12, 0, 32, 0]       ! ... address subfield.
```

```
TES;
```

```
LITERAL
```

```
queue_element_size= 16;      ! Total (byte)size of queue element.
```

```
!
! Define VMS block structures
!
```

```
STRUCTURE
```

```
bblock [o, p, s, e; n] =
[n]
(bblock+o)<p,s,e>;
```


Equated symbols

```
LITERAL
  true      = 1,           ! Boolean true
  false     = 0,           ! Boolean false
  ok        = 1;          ! Success return code
```

Define CLI qualifier flags (see cli_flags)

```
LITERAL
  $EQLST (QUAL,,0,1,
    (listing, ),           ! /LISTING qualifier present
    (object, ),            ! /OBJECT qualifier present
    (file, ),              ! /FILE qualifier present
    (mdl, ),               ! /MDL qualifier present
    (sdl, ),               ! /SDL qualifier present
    (input, ),             ! Input parameter present
    (symbols, ),           ! /SYMBOLS qualifier present
    (text, ));             ! /TEXT qualifier present
```

MAK

PRO

0
2
3
4
5
6
7

ENT

0

VAR

4
6
2
4

ARR

7
2
3
4
5
6
7

LAB


```
!
! Define message codes.
!
```

```
$shr_messages(msg,151,
  (syntax,severe),      ! Syntax error
  (openin,error),       ! Unable to access input file
  (openout,severe),     ! Unable to access output file
  (readerr,severe),     ! Error reading input file
  (closedel,error),     ! Unable to close input file
  (parsefail,error),    ! Error parsing file specification
  (searchfail,error),   ! Error searching for file
  (writeerr,error),     ! Error writing file
);
```

```
MACRO
  emsg(ident) =
  BEGIN
  %IF NOT %DECLARED(%NAME('msg$',ident))
  %THEN EXTERNAL LITERAL %NAME('msg$',ident); %FI
  %NAME('msg$',ident)
  END%;
```

```
%SBTTL ''
```

