

XSBTTL '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 Awdziewicz 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

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%%BTTL 'Internal definitions'

! !

Define message structure definitions

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

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|| ZSBTTL 'Required file for MESSAGE source modules'
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```
|| 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
  SEQULST (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

```

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VAR

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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 ''
```

