Messages [B]

SEGLDR produces many messages describing problems it detects during the load process. The loader divides messages into two categories:

- Load-time messages produced during the load process. These messages are written to the standard error (`stderr`) file. By specifying the `-k` option on the `segldr` command line, the messages can be forced to the standard output (`stdout`) file.

- Run-time messages issued when the program executes. the run-time messages are issued by library routines that the loader builds into the load. These messages are always written to the standard error (`stderr`) file.

The loader produces six classes of load-time messages, five of which can be controlled by users through the use of the `MLEVEL` directive. From least severe to most severe, the five user controllable message classes are as follows:

Class	Description
COMMENT	Informational messages that have no affect on the execution of the object module.
NOTE	Messages indicate the possible misuse or inefficient use of the loader. These errors have no affect on the execution of the object module.
CAUTION	Messages indicate the possible detection of an error not severe enough to prohibit execution of the object module.

Class	Description
WARNING	Messages indicate an error severe enough to invalidate the object module. The object module may not be written, but processing continues so that additional error checking occurs. In most cases, the executable program will still be generated, but execution mode will not be enabled.
FATAL	Messages indicate a fatal error was detected and processing cannot continue. No object module is written, the loader terminates immediately.

In addition to these message classes, `segldr` produces SUMMARY messages when the `-k` option is specified on the command-line. Unlike the other message classes, SUMMARY messages are always written to the standard error (`stderr`) file; they cannot be redirected to the standard output (`stdout`) file or a file through the use of the `-k` option.

SUMMARY messages serve as immediate notification that you have errors in your load process.

The loader prepends the type of message onto all messages.

You can get detailed descriptions for any loader error messages through the use of the `explain`(1) command. The loader message ID string for use with the `explain` command is `ldr`.

The following is an example using the `explain` command to generate a message description for the loader message number ldr-101, "`The initial managed memory size is too small.  It has been increased to '`*nnn*`' words:`"

```
mjc% explain mppldr101

The initial managed memory size is too small.
It has been increased to 'nnn'
words.

The size specified on the HEAP directive as
the initial managed memory size
is below the minimum value allowed.   The
amount of managed memory has been
set to the minimum size allowed.
```

You can control the format of messages by using the `MSG_FORMAT` environment variable. For a complete description of the `MSG_FORMAT` environment variable, see the `explain`(1) command.