

C LIBRARY - <ERRNO.H>

http://www.tutorialspoint.com/c_standard_library/errno_h.htm

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The **errno.h** header file of the C Standard Library defines the integer variable **errno**, which is set by system calls and some library functions in the event of an error to indicate what went wrong. This macro expands to a modifiable lvalue of type `int`, therefore it can be both read and modified by a program.

The **errno** is set to zero at program startup. Certain functions of the standard C library modify its value to other than zero to signal some types of error. You can also modify its value or reset to zero at your convenience.

The **errno.h** header file also defines a list of macros indicating different error codes, which will expand to integer constant expressions with type **int**.

Library Macros

Following are the macros defined in the header `errno.h` –

S.N. Macro & Description

- 1 [extern int errno](#)
This is the macro set by system calls and some library functions in the event of an error to indicate what went wrong.
- 2 [EDOM Domain Error](#)
This macro represents a domain error, which occurs if an input argument is outside the domain, over which the mathematical function is defined and `errno` is set to `EDOM`.
- 3 [ERANGE Range Error](#)
This macro represents a range error, which occurs if an input argument is outside the range, over which the mathematical function is defined and `errno` is set to `ERANGE`.