

C LIBRARY MACRO - ERRNO

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

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Description

The C library macro **extern int errno** is set by system calls and some library functions in the event of an error to indicate if anything went wrong.

Declaration

Following is the declaration for errno macro.

```
extern int errno
```

Parameters

- NA

Return Value

- NA

Example

The following example shows the usage of errno Macro.

```
#include <stdio.h>
#include <errno.h>
#include <string.h>

extern int errno ;

int main ()
{
    FILE *fp;

    fp = fopen("file.txt", "r");
    if( fp == NULL )
    {
        fprintf(stderr, "Value of errno: %d\n", errno);
        fprintf(stderr, "Error opening file: %s\n", strerror(errno));
    }
    else
    {
        fclose(fp);
    }

    return(0);
}
```

Let us compile and run the above program that will produce the following result in case file **file.txt** does not exist –

```
Value of errno: 2
Error opening file: No such file or directory
```