

NAME

`perror` - print a system error message

SYNOPSIS

```
#include <stdio.h>

void perror(const char *s);

#include <errno.h>

const char * const sys_errlist[];
int sys_nerr;
int errno; /* Not really declared this way; see errno\(3\) */
```

Feature Test Macro Requirements for glibc (see [feature_test_macros\(7\)](#)):

`sys_errlist`, `sys_nerr`: Since glibc 2.19: `_DEFAULT_SOURCE` Glibc 2.19 and earlier: `_BSD_SOURCE`

DESCRIPTION

The `perror()` function produces a message on standard error describing the last error encountered during a call to a system or library function.

First (if `s` is not NULL and `*s` is not a null byte (`'\0'`)), the argument string `s` is printed, followed by a colon and a blank. Then an error message corresponding to the current value of `errno` and a new-line.

To be of most use, the argument string should include the name of the function that incurred the error.

The global error list `sys_errlist[]`, which can be indexed by `errno`, can be used to obtain the error message without the newline. The largest message number provided in the table is `sys_nerr-1`. Be careful when directly accessing this list, because new error values may not have been added to `sys_errlist[]`. The use of `sys_errlist[]` is nowadays deprecated; use [strerror\(3\)](#) instead

When a system call fails, it usually returns -1 and sets the variable `errno` to a value describing what went wrong. (These values can be found in `<errno.h>`.) Many library functions do likewise. The function `perror()` serves to translate this error code into human-readable form. Note that `errno` is undefined after a successful system call or library function call: this call may well change this variable, even though it succeeds, for example because it internally used some other library function that failed. Thus, if a failing call is not immediately followed by a call to `perror()`, the value of `errno` should be saved.

ATTRIBUTES

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
<code>perror()</code>	Thread safety	MT-Safe race:stderr

CONFORMING TO

`perror()`, `errno`: POSIX.1-2001, POSIX.1-2008, C89, C99, 4.3BSD.

The externals `sys_nerr` and `sys_errlist` derive from BSD, but are not specified in POSIX.1.

NOTES

The externals `sys_nerr` and `sys_errlist` are defined by glibc, but in `<stdio.h>`.

SEE ALSO

[err\(3\)](#), [errno\(3\)](#), [error\(3\)](#), [strerror\(3\)](#)

COLOPHON

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