NAME

```
perror - print a system error message
```

LIBRARY

```
Standard C library (libc, -lc)
```

glibc 2.19 and earlier: _BSD_SOURCE

SYNOPSIS

```
#include <stdio.h>
void perror(const char *s);
#include <errno.h>
int errno;    /* Not really declared this way; see errno(3) */
[[deprecated]] const char *const sys_errlist[];
[[deprecated]] int sys_nerr;

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):
    sys_errlist, sys_nerr:
    From glibc 2.19 to glibc 2.31:
    _DEFAULT_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 sterror(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 $\langle errno.h \rangle$.) Many library functions do likewise. The function **per-ror**() 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.

VERSIONS

Since glibc 2.32, the declarations of sys errlist and sys nerr are no longer exposed by < stdio.h>.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
perror()	Thread safety	MT-Safe race:stderr

STANDARDS

```
perror(), errno: POSIX.1-2001, POSIX.1-2008, 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)