### **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 ( $\backslash 0$ )), 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.

### **ATTRIBUTES**

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

Interface	Attribute	Value
perror()	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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2019-03-06

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2019-03-06