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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sys_errlist.3' command

$ man sys_errlist.3

PERROR(3) Linux Programmer's Manual PERROR(3)

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:

From glibc 2.19 to 2.31:

_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 func? tion.

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 dep? recated; 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 fol? lowed by a call to perror(), the value of errno should be saved.

VERSIONS

Since glibc version 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 at? tributes(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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