

NAME

`err`, `verr`, `errx`, `verrx`, `warn`, `vwarn`, `warnx`, `vwarnx` – formatted error messages

SYNOPSIS

```
#include <err.h>

void err(int eval, const char *fmt, ...);
void errx(int eval, const char *fmt, ...);
void warn(const char *fmt, ...);
void warnx(const char *fmt, ...);

#include <stdarg.h>

void verr(int eval, const char *fmt, va_list args);
void verrx(int eval, const char *fmt, va_list args);
void vwarn(const char *fmt, va_list args);
void vwarnx(const char *fmt, va_list args);
```

DESCRIPTION

The `err()` and `warn()` family of functions display a formatted error message on the standard error output. In all cases, the last component of the program name, a colon character, and a space are output. If the `fmt` argument is not NULL, the `printf(3)`-like formatted error message is output. The output is terminated by a newline character.

The `err()`, `verr()`, `warn()`, and `vwarn()` functions append an error message obtained from `strerror(3)` based on the global variable `errno`, preceded by another colon and space unless the `fmt` argument is NULL.

The `errx()` and `warnx()` functions do not append an error message.

The `err()`, `verr()`, `errx()`, and `verrx()` functions do not return, but exit with the value of the argument `eval`.

ATTRIBUTES

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

Interface	Attribute	Value
<code>err()</code> , <code>errx()</code> , <code>warn()</code> , <code>warnx()</code> , <code>verr()</code> , <code>verrx()</code> , <code>vwarn()</code> , <code>vwarnx()</code>	Thread safety	MT-Safe locale

CONFORMING TO

These functions are nonstandard BSD extensions.

EXAMPLE

Display the current `errno` information string and exit:

```
p = malloc(size);
if (p == NULL)
    err(1, NULL);
fd = open(file_name, O_RDONLY, 0);
if (fd == -1)
    err(1, "%s", file_name);
```

Display an error message and exit:

```
if (tm.tm_hour < START_TIME)
    errx(1, "too early, wait until %s", start_time_string);
```

Warn of an error:

```
fd = open(raw_device, O_RDONLY, 0);
if (fd == -1)
    warnx("%s: %s: trying the block device",
          raw_device, strerror(errno));
fd = open(block_device, O_RDONLY, 0);
if (fd == -1)
    err(1, "%s", block_device);
```

SEE ALSO

error(3), exit(3), perror(3), printf(3), strerror(3)

COLOPHON

This page is part of release 5.05 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.