

**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`.

**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**

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