NAME

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

LIBRARY

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

SYNOPSIS

```
#include <err.h>
[[noreturn]] void err(int eval, const char *fmt, ...);
[[noreturn]] void errx(int eval, const char *fmt, ...);
void warn(const char *fmt, ...);
void warnx(const char *fmt, ...);
#include <stdarg.h>
[[noreturn]] void verr(int eval, const char *fmt, v a_list args);
[[noreturn]] void verrx(int eval, const char *fmt, v a_list args);
void vwarn(const char *fmt, v a_list args);
void vwarnx(const char *fmt, v a_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 *fint* 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 *fint* ar gument 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
err(), errx(), warn(), warnx(), verr(), verrx(), vwarn(), vwarnx()	Thread safety	MT-Safe locale

STANDARDS

These functions are nonstandard BSD extensions.

EXAMPLES

Display the current errno information string and exit:

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

Display an error message and exit:
   if (tm.tm_hour < START_TIME)</pre>
```

```
errx(EXIT_FAILURE, "too early, wait until %s", start_time_string);
```

Warn of an error:

```
fd = open(raw_device, O_RDONLY, 0);
if (fd == -1)
```

SEE ALSO

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