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
err(), **errx**(), **warn**(), **warnx**(), **verr**(), **verrx**(), **vwarn**(), **vwarnx**()	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

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