NAME

fread, fwrite - binary stream input/output

SYNOPSIS

DESCRIPTION

The function **fread**() reads *nmemb* items of data, each *size* bytes long, from the stream pointed to by *stream*, storing them at the location given by *ptr*.

The function **fwrite**() writes *nmemb* items of data, each *size* bytes long, to the stream pointed to by *stream*, obtaining them from the location given by *ptr*.

For nonlocking counterparts, see **unlocked_stdio**(3).

RETURN VALUE

On success, **fread**() and **fwrite**() return the number of items read or written. This number equals the number of bytes transferred only when *size* is 1. If an error occurs, or the end of the file is reached, the return value is a short item count (or zero).

fread() does not distinguish between end-of-file and error, and callers must use **feof**(3) and **ferror**(3) to determine which occurred.

ATTRIBUTES

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

	Interface	Attribute	Value
ĺ	fread(), fwrite()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C89.

SEE ALSO

```
read(2), write(2), feof(3), ferror(3), unlocked_stdio(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/.