

**NAME**

*fread*, *fwrite* — buffered binary input/output

**SYNOPSIS**

```
#include <stdio.h>
```

```
int fread ((char *) ptr, sizeof (*ptr), nitems, stream)
```

```
FILE *stream;
```

```
int fwrite ((char *) ptr, sizeof (*ptr), nitems, stream)
```

```
FILE *stream;
```

**DESCRIPTION**

*Fread* reads, into a block beginning at *ptr*, *nitems* of data of the type of *\*ptr* from the named input *stream*. It returns the number of items actually read.

*Fwrite* appends at most *nitems* of data of the type of *\*ptr* beginning at *ptr* to the named output *stream*. It returns the number of items actually written.

**SEE ALSO**

*read*(2), *write*(2), *fopen*(3S), *getc*(3S), *putc*(3S), *gets*(3S), *puts*(3S), *printf*(3S), *scanf*(3S)

**DIAGNOSTICS**

*Fread* and *fwrite* return the constant **NULL** upon end of file or error.