

NAME

fgetpos, fseek, fsetpos, ftell, rewind - reposition a stream

SYNOPSIS

```
#include <stdio.h>

int fseek(FILE *stream, long offset, int whence);

long ftell(FILE *stream);

void rewind(FILE *stream);

int fgetpos(FILE *stream, fpos_t *pos);
int fsetpos(FILE *stream, const fpos_t *pos);
```

DESCRIPTION

The **fseek()** function sets the file position indicator for the stream pointed to by *stream*. The new position, measured in bytes, is obtained by adding *offset* bytes to the position specified by *whence*. If *whence* is set to **SEEK_SET**, **SEEK_CUR**, or **SEEK_END**, the offset is relative to the start of the file, the current position indicator, or end-of-file, respectively. A successful call to the **fseek()** function clears the end-of-file indicator for the stream and undoes any effects of the [ungetc\(3\)](#) function on the same stream.

The **ftell()** function obtains the current value of the file position indicator for the stream pointed to by *stream*.

The **rewind()** function sets the file position indicator for the stream pointed to by *stream* to the beginning of the file. It is equivalent to:

```
(void) fseek(stream, 0L, SEEK_SET)
```

except that the error indicator for the stream is also cleared (see [clearerr\(3\)](#)).

The **fgetpos()** and **fsetpos()** functions are alternate interfaces equivalent to **ftell()** and **fseek()** (with *whence* set to **SEEK_SET**), setting and storing the current value of the file offset into or from the object referenced by *pos*. On some non-UNIX systems, an *fpos_t* object may be a complex object and these routines may be the only way to portably reposition a text stream.

RETURN VALUE

The **rewind()** function returns no value. Upon successful completion, **fgetpos()**, **fseek()**, **fsetpos()** return 0, and **ftell()** returns the current offset. Otherwise, -1 is returned and *errno* is set to indicate the error.

ERRORS**EBADF**

The *stream* specified is not a seekable stream.

EINVAL

The *whence* argument to **fseek()** was not **SEEK_SET**, **SEEK_END**, or **SEEK_CUR**. Or: the resulting file offset would be negative.

The functions **fgetpos()**, **fseek()**, **fsetpos()**, and **ftell()** may also fail and set *errno* for any of the errors specified for the routines [fflush\(3\)](#), [fstat\(2\)](#), [lseek\(2\)](#), and [malloc\(3\)](#).

ATTRIBUTES

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
fseek() , ftell() , rewind() , fgetpos() , fsetpos()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C89, C99.

SEE ALSO

[lseek\(2\)](#), [fseeko\(3\)](#)

COLOPHON

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