### **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()**, **fseepos()** return 0, and **ftell()** returns the current offset. Otherwise, -1 is returned and *errno* is set to indicate the error.

## **ERRORS**

# **EINVAL**

The *whence* argument to **fseek**() was not **SEEK\_SET**, **SEEK\_END**, or **SEEK\_CUR**. Or: the resulting file offset would be negative.

#### **ESPIPE**

The file descriptor underlying *stream* is not seekable (e.g., it refers to a pipe, FIFO, or socket).

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(),	Thread safety	MT-Safe
fgetpos(), fsetpos()		

# **CONFORMING TO**

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

# **SEE ALSO**

lseek(2), fseeko(3)

# **COLOPHON**

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