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

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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