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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'fgetpos.3' command

\$ man fgetpos.3

FSEEK(3) Linux Programmer's Manual FSEEK(3)

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).

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?Interface ? Attribute ? Value ?

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?fseek(), ftell(), rewind(), ? Thread safety ? MT-Safe ?

?fgetpos(), fsetpos() ? ? ?

??

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

SEE ALSO

`lseek(2)`, `fseeko(3)`

COLOPHON

This page is part of release 5.10 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/>.

GNU

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