



Rocky Enterprise Linux 9.2 Manual Pages on command 'getfsent.3'

C:\>man getfsent.3

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

NAME

getfsent, getfsspec, getfsfile, setfsent, endfsent - handle fstab entries

SYNOPSIS

```
#include <fstab.h>

void endfsent(void);

struct fstab *getfsent(void);

struct fstab *getfsfile(const char *mount_point);

struct fstab *getfsspec(const char *special_file);

int setfsent(void);
```

DESCRIPTION

These functions read from the file /etc/fstab. The struct fstab is defined by:

```
struct fstab {
    char    *fs_spec;    /* block device name */
    char    *fs_file;   /* mount point */
    char    *fs_vfstype; /* file-system type */
    char    *fs_mntops; /* mount options */
    const char *fs_type; /* rw/rq/ro/sw/xx option */
    int     fs_freq;    /* dump frequency, in days */
    int     fs_passno;  /* pass number on parallel dump */
};
```

Here the field fs_type contains (on a *BSD system) one of the five strings "rw",

"rq", "ro", "sw", "xx" (read-write, read-write with quota, read-only, swap, ignore).

The function setfsent() opens the file when required and positions it at the first line.

The function getfsent() parses the next line from the file. (After opening it when required.)

The function endfsent() closes the file when required.

The function getfsspec() searches the file from the start and returns the first entry found for which the fs_spec field matches the special_file argument.

The function getfsfile() searches the file from the start and returns the first entry found for which the fs_file field matches the mount_point argument.

RETURN VALUE

Upon success, the functions getfsent(), getfsfile(), and getfsspec() return a pointer to a struct fstab, while setfsent() returns 1. Upon failure or end-of-file, these functions return NULL and 0, respectively.

ATTRIBUTES

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

??

?Interface ? Attribute ? Value ?

??

?endfsent(), ? Thread safety ? MT-Unsafe race:fsent ?

?setfsent() ? ? ?

??

?getfsent(), ? Thread safety ? MT-Unsafe race:fsent locale ?

?getfsspec(), ? ? ?

?getfsfile() ? ? ?

??

CONFORMING TO

These functions are not in POSIX.1. Several operating systems have them, for example, *BSD, SunOS, Digital UNIX, AIX (which also has a getfstype()). HP-UX has functions of the same names, that however use a struct checklist instead of a struct fstab, and calls these functions obsolete, superseded by getmntent(3).

NOTES

These functions are not thread-safe.

Since Linux allows mounting a block special device in several places, and since several devices can have the same mount point, where the last device with a given mount point is the interesting one, while `getfsfile()` and `getfsspec()` only return the first occurrence, these two functions are not suitable for use under Linux.

SEE ALSO

`getmntent(3)`, `fstab(5)`

COLOPHON

This page is part of release 5.05 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

2017-09-15

GETFSENT(3)