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

\$ man getfsspec.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 re-quired.)

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)`.

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?Interface ? Attribute ? Value ?

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

?`setfsent()` ? ? ?

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?`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 5.10 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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