



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 en?

tries

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 de?

fined 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\(7\)](#).

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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() ? ?

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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 getfs?file() 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/>.

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