

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.

CONFORMING TO

These functions are not in POSIX.1-2001. 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the same names, that however use a *struct checklist* instead of a *struct fstab*, and calls these functions obsolete, superseded by **getmntent(3)**.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

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