

NAME

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

LIBRARY

Standard C library (*libc*, *-lc*)

SYNOPSIS

```
#include <fstab.h>

int setfsent(void);
struct fstab *getfsent(void);
void endfsent(void);

struct fstab *getfsfile(const char *mount_point);
struct fstab *getfsspec(const char *special_file);
```

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;       /* filesystem 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() , setfsent()	Thread safety	MT-Unsafe race:fsent
getfsent() , getfsspec() , getfsfile()	Thread safety	MT-Unsafe race:fsent locale

VERSIONS

Several operating systems have these functions, 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the same names, that however use a *struct checklist* instead of a *struct fstab*, and calls these functions obsolete, superseded by **getmntent(3)**.

STANDARDS

None.

HISTORY

The **getfsent()** function appeared in 4.0BSD; the other four functions appeared in 4.3BSD.

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)**