GETMNTENT(3)

 $\begin{tabular}{ll} GETMNTENT(3) & Linux Programmer's Manual & GETMNTENT(3) \\ \end{tabular}$

NAME

getm
ntent, setm
ntent, addm
ntent, endm
ntent, hasm
ntopt, getm
ntent_r - get filesystem descriptor file entry

SYNOPSIS

```
#include <stdio.h>
#include <mntent.h>

FILE *setmntent(const char *filename, const char *type);

struct mntent *getmntent(FILE *fp);

int addmntent(FILE *fp, const struct mntent *mnt);

int endmntent(FILE *fp);

char *hasmntopt(const struct mntent *mnt, const char *opt);

/* GNU extension */
#include <mntent.h>

struct mntent *getmntent_r(FILE *fp, struct mntent *mntbuf, char *buf, int buflen);

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):
```

```
getmntent_r(): _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

These routines are used to access the file system description file /etc/fstab and the mounted file system description file /etc/mtab.

The **setmntent**() function opens the filesystem description file <u>filename</u> and returns a file pointer which can be used by **getmntent**(). The argument <u>type</u> is the type of access required and can take the same values as the <u>mode</u> argument of **fopen**(3).

The **getmntent**() function reads the next line from the filesystem description file \underline{fp} and returns a pointer to a structure containing the broken out fields from a line in the file. The pointer points to a static area of memory which is overwritten by subsequent calls to **getmntent**().

The **addmntent**() function adds the <u>mntent</u> structure <u>mnt</u> to the end of the open file fp.

The **endmntent**() function closes the filesystem description file fp.

The **hasmntopt**() function scans the <u>mnt_opts</u> field (see below) of the <u>mntent</u> structure <u>mnt</u> for a substring that matches <u>opt</u>. See <u><mntent.h></u> and **mount**(8) for valid mount options.

The reentrant **getmntent_r**() function is similar to **getmntent**(), but stores the <u>struct mount</u> in the provided *<u>mntbuf</u> and stores the strings pointed to by the entries in that struct in the provided array <u>buf</u> of size <u>buflen</u>.

The $\underline{\text{mntent}}$ structure is defined in $\underline{<\text{mntent.h}>}$ as follows:

Since fields in the mtab and fstab files are separated by whitespace, octal escapes are used to represent the four characters space ($\backslash 040$), tab ($\backslash 011$), newline ($\backslash 012$)

and backslash (\134) in those files when they occur in one of the four strings in a <u>mntent</u> structure. The routines **addmntent**() and **getmntent**() will convert from string representation to escaped representation and back.

RETURN VALUE

The **getmntent()** and **getmntent_r()** functions return a pointer to the <u>mntent</u> structure or NULL on failure.

The **addmntent**() function returns 0 on success and 1 on failure.

The **endmntent**() function always returns 1.

The **hasmntopt**() function returns the address of the substring if a match is found and NULL otherwise.

FILES

/etc/fstab filesystem description file
/etc/mtab mounted filesystem description file

CONFORMING TO

The nonreentrant functions are from SunOS 4.1.3. A routine **getmntent_r**() was introduced in HP-UX 10, but it returns an int. The prototype shown above is glibc-only.

NOTES

System V also has a **getmntent**() function but the calling sequence differs, and the returned structure is different. Under System V /etc/mnttab is used. 4.4BSD and Digital UNIX have a routine **getmntinfo**(), a wrapper around the system call **getfsstat**().

SEE ALSO

fopen(3), fstab(5), mount(8)

COLOPHON

This page is part of release 3.54 of the Linux man-pages project. A description of the project, and information about reporting bugs, can be found at http://www.kernel.org/doc/man-pages/.

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