

NAME

getfsstat - get list of all mounted file systems

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <sys/param.h>
```

```
#include <sys/ucred.h>
```

```
#include <sys/mount.h>
```

int

```
getfsstat(struct statfs *buf, long bufsize, int mode);
```

DESCRIPTION

The **getfsstat()** system call returns information about all mounted file systems. The *buf* argument is a pointer to *statfs* structures, as described in *statfs(2)*.

Fields that are undefined for a particular file system are set to -1. The buffer is filled with an array of *statfs* structures, one for each mounted file system up to the byte count specified by *bufsize*. Note, the *bufsize* argument is the number of bytes that *buf* can hold, not the count of *statfs* structures it will hold.

If *buf* is given as NULL, **getfsstat()** returns just the number of mounted file systems.

Normally *mode* should be specified as MNT_WAIT. If *mode* is set to MNT_NOWAIT, **getfsstat()** will return the information it has available without requesting an update from each file system. Thus, some of the information will be out of date, but **getfsstat()** will not block waiting for information from a file system that is unable to respond. It will also skip any file system that is in the process of being unmounted, even if the unmount would eventually fail.

RETURN VALUES

Upon successful completion, the number of *statfs* structures is returned. Otherwise, -1 is returned and the global variable *errno* is set to indicate the error.

ERRORS

The **getfsstat()** system call fails if one or more of the following are true:

[EFAULT] The *buf* argument points to an invalid address.

[EINVAL] *mode* is set to a value other than MNT_WAIT or MNT_NOWAIT.

[EIO] An I/O error occurred while reading from or writing to the file system.

[EINTEGRITY] Corrupted data was detected while reading from the file system.

SEE ALSO

statfs(2), fstab(5), mount(8)

HISTORY

The **getfsstat()** system call first appeared in 4.4BSD.