

**NAME**

**libufs** - operate on UFS file systems from userland

**LIBRARY**

UFS File System Access Library (libufs, -lufs)

**SYNOPSIS**

```
#include <sys/param.h>
#include <sys/mount.h>
#include <ufs/ufs/ufsmount.h>
#include <ufs/ufs/dinode.h>
#include <ufs/ffs/fs.h>
#include <libufs.h>
```

**DESCRIPTION**

The **libufs** library and the functions it provides are used for implementing utilities which need to access a UFS file system at a low level from userland. Facilities provided are used to implement utilities such as `newfs(8)` and `dumpfs(8)`. The **libufs** library is designed to be simple, and to provide functions that are traditionally useful to have.

A disk is represented as the type *struct uufsd* as defined in *<libufs.h>*. The structure is filled out, operations are performed, and the disk is closed.

**ERRORS**

Functions provided by **libufs** return -1 in every functional error situation. They also set the *d\_error* field of *struct uufsd* to a string describing the error.

**SEE ALSO**

`berase(3)`, `bread(3)`, `bwrite(3)`, `cgget(3)`, `cgput(3)`, `cgreadd(3)`, `cgreadd1(3)`, `cgwrite(3)`, `cgwrite1(3)`, `getinode(3)`, `putinode(3)`, `sbget(3)`, `sbput(3)`, `sbread(3)`, `sbwrite(3)`, `ufs_disk_close(3)`, `ufs_disk_fillout(3)`, `ufs_disk_fillout_blank(3)`, `ufs_disk_write(3)`, `ffs(7)`

**HISTORY**

The `libufs(3)` library first appeared in FreeBSD 5.0.

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