NAME

bread, **bwrite** - read and write blocks of a UFS file system

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>

ssize_t
bread(*struct uufsd *disk, ufs2_daddr_t blockno, void *data, size_t size*);

ssize_t
bwrite(*struct uufsd *disk, ufs2_daddr_t blockno, const void *data, size_t size*);

int
berase(*struct uufsd *disk, ufs2_daddr_t blockno, ufs2_daddr_t size*);

DESCRIPTION

The **bread**(), **bwrite**() and **berase**() functions provide a block read, write and erase API for libufs(3) consumers. They operate on a userland UFS disk structure, and perform the read and write at a given block address, which uses the current *d_bsize* value of the structure.

RETURN VALUES

The **bread**() and **bwrite**() functions return the amount read or written, or -1 in case of any error, including short read.

The **berase**() function returns non-zero on error.

ERRORS

The function **bread**() may fail and set *errno* for any of the errors specified for the library functions ufs_disk_write(3) or pread(2).

The function **bwrite**() may fail and set *errno* for any of the errors specified for the library function pwrite(2).

The function **berase**() may fail and set *errno* for any of the errors specified for the library function ioctl(2).

Additionally all three functions may follow the libufs(3) error methodologies in situations where the amount of data written is not equal to the amount requested, or in case of a device error.

SEE ALSO

libufs(3), ufs_disk_write(3)

HISTORY

These functions first appeared as part of libufs(3) in FreeBSD 5.0.

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