

NAME

fhopen, **fhstat**, **fhstatfs** - access file via file handle

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

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

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

int

```
fhopen(const fhandle_t *fhp, int flags);
```

int

```
fhstat(const fhandle_t *fhp, struct stat *sb);
```

int

```
fhstatfs(const fhandle_t *fhp, struct statfs *buf);
```

DESCRIPTION

These system calls provide a means to access a file given the file handle *fhp*. As this method bypasses directory access restrictions, these calls are restricted to the superuser.

The **fhopen()** system call opens the file referenced by *fhp* for reading and/or writing as specified by the argument *flags* and returns the file descriptor to the calling process. The *flags* argument is specified by *or*'ing together the flags used for the `open(2)` system call. All said flags are valid except for `O_CREAT`.

The **fhstat()** and **fhstatfs()** system calls provide the functionality of the `fstat(2)` and `fstatfs(2)` calls except that they return information for the file referred to by *fhp* rather than an open file.

RETURN VALUES

Upon successful completion, **fhopen()** returns the file descriptor for the opened file; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

The **fhstat()** and **fhstatfs()** functions return the value 0 if successful; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

ERRORS

In addition to the errors returned by `open(2)`, `fstat(2)`, and `fstatfs(2)` respectively, **fhopen()**, **fhstat()**, and

fhstatfs() will return

[EINVAL] Calling **fhopen()** with O_CREAT set.

[ESTALE] The file handle *fhp* is no longer valid.

SEE ALSO

fstat(2), fstatfs(2), getfh(2), open(2)

HISTORY

The **fhopen()**, **fhstat()**, and **fhstatfs()** system calls first appeared in NetBSD 1.5 and were adapted to FreeBSD 4.0 by Alfred Perlstein.

AUTHORS

This manual page was written by William Studenmund for NetBSD.