

NAME

chdir, **fchdir** - change current working directory

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <unistd.h>
```

int

```
chdir(const char *path);
```

int

```
fchdir(int fd);
```

DESCRIPTION

The *path* argument points to the pathname of a directory. The **chdir**() system call causes the named directory to become the current working directory, that is, the starting point for path searches of pathnames not beginning with a slash, '/'.

The **fchdir**() system call causes the directory referenced by *fd* to become the current working directory, the starting point for path searches of pathnames not beginning with a slash, '/'.

In order for a directory to become the current directory, a process must have execute (search) access to the directory.

RETURN VALUES

Upon successful completion, the value 0 is returned; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

ERRORS

The **chdir**() system call will fail and the current working directory will be unchanged if one or more of the following are true:

[ENOTDIR] A component of the path prefix is not a directory.

[ENAMETOOLONG]

A component of a pathname exceeded 255 characters, or an entire path name exceeded 1023 characters.

- [ENOENT] The named directory does not exist.
- [ELOOP] Too many symbolic links were encountered in translating the pathname.
- [EACCES] Search permission is denied for any component of the path name.
- [EFAULT] The *path* argument points outside the process's allocated address space.
- [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.

The **fchdir()** system call will fail and the current working directory will be unchanged if one or more of the following are true:

- [EACCES] Search permission is denied for the directory referenced by the file descriptor.
- [ENOTDIR] The file descriptor does not reference a directory.
- [EBADF] The argument *fd* is not a valid file descriptor.

SEE ALSO

chroot(2)

STANDARDS

The **chdir()** system call is expected to conform to IEEE Std 1003.1-1990 ("POSIX.1").

HISTORY

The **chdir()** system call appeared in Version 1 AT&T UNIX. The **fchdir()** system call appeared in 4.2BSD.