NAME

chdir, fchdir – change working directory

SYNOPSIS

```
#include <unistd.h>
int chdir(const char *path);
int fchdir(int fildes);
```

MT-LEVEL

chdir( ) is Async-Signal-Safe

DESCRIPTION

chdir( ) and **fchdir( )** cause a directory pointed to by *path* or *fildes* to become the current working directory. The starting point for path searches for path names not beginning with **/**. *path* points to the path name of a directory. The *fildes* argument to **fchdir( )** is an open file descriptor of a directory.

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, a value of zero is returned. Otherwise, a value of −1 is returned and **errno** is set to indicate the error.

ERRORS

chdir( ) 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 any component of the path name.
EFAULT	*path* points to an illegal address.
EINTR	A signal was caught during the execution of the **chdir( )** function.
EIO	An I/O error occurred while reading from or writing to the file system.
ELOOP	Too many symbolic links were encountered in translating *path*.
ENAMETOOLONG	The length of the *path* argument exceeds {**PATH_MAX**}, or the length of a *path* component exceeds {**NAME_MAX**} while {**_POSIX_NO_TRUNC**} is in effect.
ENOENT	Either a component of the path prefix or the directory named by *path* does not exist or is a null pathname.
ENOLINK	*path* points to a remote machine and the link to that machine is no longer active.
ENOTDIR	A component of the path name is not a directory.
EMULTIHOP	Components of *path* require hopping to multiple remote machines and file system type does not allow it.

fchdir( ) 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 *fildes*.
EBADF	*fildes* is not an open file descriptor.
EINTR	A signal was caught during the execution of the **fchdir( )** function.
EIO	An I/O error occurred while reading from or writing to the file system.
ENOLINK	*fildes* points to a remote machine and the link to that machine is no longer active.
ENOTDIR	The open file descriptor *fildes* does not refer to a directory.

SEE ALSO

chroot(2)