NAME

truncate, ftruncate – set a file to a specified length

SYNOPSIS

#include <unistd.h>

int truncate(const char **path*, **off_t** *length***);**

int ftruncate(int *fildes*, **off_t** *length***);**

MT-LEVEL

MT-Safe

DESCRIPTION

The file whose name is given by *path* or referenced by the descriptor *fildes* has its size set to *length* bytes.

If the file was previously longer than *length*, bytes past *length* will no longer be accessible. If it was shorter, bytes from the EOF before the call to the EOF after the call will be read in as zeros. The effective user ID of the process must have write permission for the file, and for **ftruncate()** the file must be open for writing.

RETURN VALUES

Upon successful completion, a value of 0 is returned. Otherwise, a value of –1 is returned and **errno** is set to indicate the error.

ERRORS

truncate() fails if one or more of the following are true:

EACCES	Search permission is denied on a component of the path prefix.
EACCES	Write permission is denied for the file referred to by *path*.
EFAULT	*path* points outside the process's allocated address space.
EINTR	A signal was caught during execution of the **truncate** routine.
EINVAL	*path* is not an ordinary file.
EIO	An I/O error occurred while reading from or writing to the file system.
EISDIR	The file referred to by *path* is a directory.
ELOOP	Too many symbolic links were encountered in translating *path*.
EMFILE	The maximum number of file descriptors available to the process has been reached.
EMULTIHOP	Components of *path* require hopping to multiple remote machines and file system type does not allow it.
ENAMETOOLONG	The length of a *path* component exceeds **{NAME_MAX}** characters, or the length of *path* exceeds **{PATH_MAX}** characters.
ENFILE	Could not allocate any more space for the system file table.
ENOENT	Either a component of the path prefix or the file referred to by *path* does not exist.
ENOLINK	*path* points to a remote machine and the link to that machine is no longer active.
ENOTDIR	A component of the path prefix of *path* is not a directory.

EROFS The file referred to by *path* resides on a read-only file system.

ftruncate( ) fails if one or more of the following are true:

EAGAIN The file exists, mandatory file/record locking is set, and there are outstanding record locks on the file (see **chmod**(2)).

EBADF *fildes* is not a file descriptor open for writing.

EINTR A signal was caught during execution of the **ftruncate** routine.

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.

EINVAL *fildes* does not correspond to an ordinary file.

SEE ALSO

chmod(2), **fcntl**(2), **open**(2)