



Linux Ubuntu 26.04 Manual Pages on command 'fcntl64.2'

\$ man fcntl64.2

fcntl(2) System Calls Manual fcntl(2)

NAME

fcntl - manipulate file descriptor

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <fcntl.h>
```

```
int fcntl(int fd, int op, ...);
```

DESCRIPTION

fcntl() performs one of the operations described below on the open file descriptor fd. The operation is determined by op.

Certain of the operations below are supported only since a particular Linux kernel version.

The preferred method of checking whether the host kernel supports a particular operation is to invoke fcntl() with the desired op value and then test whether the call failed with EIN?

VAL, indicating that the kernel does not recognize this value.

Duplicating a file descriptor

F_DUPFD(2const)

F_DUPFD_CLOEXEC(2const)

File descriptor flags

F_GETFD(2const)

F_SETFD(2const)

File status flags

F_GETFL(2const)

F_SETFL(2const)

Advisory record locking

F_SETLK(2const)

F_SETLKW(2const)

F_GETLK(2const)

Open file description locks (non-POSIX)

F_OFD_SETLK(2const)

F_OFD_SETLKW(2const)

F_OFD_GETLK(2const)

Managing signals

F_GETOWN(2const)

F_SETOWN(2const)

F_GETOWN_EX(2const)

F_SETOWN_EX(2const)

F_GETSIG(2const)

F_SETSIG(2const)

Leases

F_SETLEASE(2const)

F_GETLEASE(2const)

Delegations

F_SETDELEG(2const)

F_GETDELEG(2const)

File and directory change notification (dnotify)

F_NOTIFY(2const)

Changing the capacity of a pipe

F_SETPIPE_SZ(2const)

F_GETPIPE_SZ(2const)

File Sealing

F_ADD_SEALS(2const)

F_GET_SEALS(2const)

File read/write hints

F_GET_RW_HINT(2const)

F_SET_RW_HINT(2const)

`F_GET_FILE_RW_HINT(2const)`

`F_SET_FILE_RW_HINT(2const)`

RETURN VALUE

For a successful call, the return value depends on the operation.

On error, -1 is returned, and `errno` is set to indicate the error.

ERRORS

EACCES or EAGAIN

Operation is prohibited by locks held by other processes.

EAGAIN The operation is prohibited because the file has been memory-mapped by another process.

EBADF `fd` is not an open file descriptor

EINVAL The value specified in `op` is not recognized by this kernel.

VERSIONS

POSIX.1-2024 specifies `FD_CLOFORK` and `F_DUPFD_CLOFORK`, but Linux doesn't support them.

STANDARDS

POSIX.1-2024.

HISTORY

4.3BSD, SVr4, POSIX.1-1988.

SEE ALSO

`dup2(2)`, `flock(2)`, `open(2)`, `socket(2)`, `lockf(3)`, `capabilities(7)`, `feature_test_macros(7)`,

`lsofs(8)`

Linux man-pages 6.17

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`fcntl(2)`