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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'fchown.3p' command

$ man fchown.3p

FCHOWN(3P) POSIX Programmer's Manual FCHOWN(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

fchown ? change owner and group of a file

SYNOPSIS

#include <unistd.h>

int fchown(int fildes, uid_t owner, gid_t group);

DESCRIPTION

The fchown() function shall be equivalent to chown() except that the file whose owner and group are changed is specified by the file de? scriptor fildes.

RETURN VALUE

Upon successful completion, fchown() shall return 0. Otherwise, it shall return -1 and set errno to indicate the error.

ERRORS

The fchown() function shall fail if:

EBADF The fildes argument is not an open file descriptor.

EPERM The effective user ID does not match the owner of the file or the process does not have appropriate privileges and

_POSIX_CHOWN_RESTRICTED indicates that such privilege is re?
quired.

EROFS The file referred to by fildes resides on a read-only file sys?
tem.

The fchown() function may fail if:

EINVAL The owner or group ID is not a value supported by the implemen?
tation. The fildes argument refers to a pipe or socket or an
fattach()-ed STREAM and the implementation disallows execution
of fchown() on a pipe.

EIO A physical I/O error has occurred.

EINTR The fchown() function was interrupted by a signal which was
caught.

The following sections are informative.

EXAMPLES

Changing the Current Owner of a File

The following example shows how to change the owner of a file named /home/cnd/mod1 to ``jones'' and the group to ``cnd''.

The numeric value for the user ID is obtained by extracting the user ID from the user database entry associated with ``jones''. Similarly, the numeric value for the group ID is obtained by extracting the group ID from the group database entry associated with ``cnd''. This example as?
sumes the calling program has appropriate privileges.

```
#include <sys/types.h>
#include <unistd.h>
#include <fcntl.h>
#include <pwd.h>
#include <grp.h>
struct passwd *pwd;
struct group  *grp;
int           fildes;
...
fildes = open("/home/cnd/mod1", O_RDWR);
pwd = getpwnam("jones");
```

```
    grp = getgrnam("cnd");
    fchown(fildes, pwd->pw_uid, grp->gr_gid);
```

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

chown()

The Base Definitions volume of POSIX.1?2017, <unistd.h>