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change the owner and group of a symbolic link

Prolog

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Краткий обзор

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

```
int lchown(const char *path, uid_t owner, gid_t group);
```

Описание

Функция *lchown()* должна быть эквивалентна *chown()*, за исключением случая, когда именованный файл является символической ссылкой. В этом случае *lchown()* меняет владельца самого файла символической ссылки, в то время как *chown()* изменяет владельца файла или каталога, на который ссылается символическая ссылка.

Возвращаемое значение

После успешного завершения *lchown()* возвращает 0. В противном случае он должен вернуть -1 и установить *errno*, чтобы указать на ошибку.

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Функция `lchown()` завершится ошибкой, если:

EACCES

Разрешение на поиск отклоняется для компонента префикса пути *path*.

EINVAL

The owner or group ID is not a value supported by the implementation.

ELOOP

A loop exists in symbolic links encountered during resolution of the *path* argument.

ENAMETOOLONG

The length of a component of a pathname is longer than {NAME_MAX}.

ENOENT

A component of *path* does not name an existing file or *path* is an empty string.

ENOTDIR

A component of the path prefix names an existing file that is neither a directory nor a symbolic link to a directory, or the *path* argument contains at least one non-`<slash>` character and ends with one or more trailing `<slash>` characters and the last pathname component names an existing file that is neither a directory nor a symbolic link to a directory.

EPERM

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EROFS

The file resides on a read-only file system.

The *lchown()* function may fail if:

EIO An I/O error occurred while reading or writing to the file system.

EINTR

A signal was caught during execution of the function.

ELOOP

More than {SYMLoop_MAX} symbolic links were encountered during resolution of the *path* argument.

ENAMETOOLONG

The length of a pathname exceeds {PATH_MAX}, or pathname resolution of a symbolic link produced an intermediate result with a length that exceeds {PATH_MAX}.

The following sections are informative.

Examples

Changing the Current Owner of a File

The following example shows how to change the ownership of the symbolic link named `/modules/pass1` to the user ID associated with “jones” and the group ID associated with “cnd”.

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getgrnam() FUNCTION.

```
#include <sys/types.h>
#include <unistd.h>
#include <pwd.h>
#include <grp.h>

struct passwd *pwd;
struct group  *grp;
char          *path = "/modules/pass1";
...
pwd = getpwnam("jones");
grp = getgrnam("cnd");
lchown(path, pwd->pw_uid, grp->gr_gid);
```

Application Usage

On implementations which support symbolic links as directory entries rather than files, *lchown()* may fail.

Rationale

None.

Future Directions

None.

See Also

`chown()`, `symlink()`

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

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Referenced By

`chown(3p)`, `symlink(3p)`, `unistd.h(0p)`.

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