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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'chgrp.1p' command

\$ man chgrp.1p

CHGRP(1P) POSIX Programmer's Manual CHGRP(1P)

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

chgrp ? change the file group ownership

SYNOPSIS

chgrp [-h] group file...

chgrp -R [-H|-L|-P] group file...

DESCRIPTION

The chgrp utility shall set the group ID of the file named by each file operand to the group ID specified by the group operand.

For each file operand, or, if the -R option is used, each file encountered while walking the directory trees specified by the file operands, the chgrp utility shall perform actions equivalent to the chown() function defined in the System Interfaces volume of POSIX.1?2017, called with the following arguments:

- * The file operand shall be used as the path argument.
- * The user ID of the file shall be used as the owner argument.
- * The specified group ID shall be used as the group argument.

Unless chgrp is invoked by a process with appropriate privileges, the

set-user-ID and set-group-ID bits of a regular file shall be cleared upon successful completion; the set-user-ID and set-group-ID bits of other file types may be cleared.

OPTIONS

The `chgrp` utility shall conform to the Base Definitions volume of POSIX.1?2017, Section 12.2, Utility Syntax Guidelines.

The following options shall be supported by the implementation:

- h For each file operand that names a file of type symbolic link, `chgrp` shall attempt to set the group ID of the symbolic link instead of the file referenced by the symbolic link.
- H If the `-R` option is specified and a symbolic link referencing a file of type directory is specified on the command line, `chgrp` shall change the group of the directory referenced by the symbolic link and all files in the file hierarchy below it.
- L If the `-R` option is specified and a symbolic link referencing a file of type directory is specified on the command line or encountered during the traversal of a file hierarchy, `chgrp` shall change the group of the directory referenced by the symbolic link and all files in the file hierarchy below it.
- P If the `-R` option is specified and a symbolic link is specified on the command line or encountered during the traversal of a file hierarchy, `chgrp` shall change the group ID of the symbolic link. The `chgrp` utility shall not follow the symbolic link to any other part of the file hierarchy.
- R Recursively change file group IDs. For each file operand that names a directory, `chgrp` shall change the group of the directory and all files in the file hierarchy below it. Unless a `-H`, `-L`, or `-P` option is specified, it is unspecified which of these options will be used as the default.

Specifying more than one of the mutually-exclusive options `-H`, `-L`, and `-P` shall not be considered an error. The last option specified shall determine the behavior of the utility.

OPERANDS

The following operands shall be supported:

group A group name from the group database or a numeric group ID.

Either specifies a group ID to be given to each file named by one of the file operands. If a numeric group operand exists in the group database as a group name, the group ID number associated with that group name is used as the group ID.

file A pathname of a file whose group ID is to be modified.

STDIN

Not used.

INPUT FILES

None.

ENVIRONMENT VARIABLES

The following environment variables shall affect the execution of `chgrp`:

LANG Provide a default value for the internationalization variables that are unset or null. (See the Base Definitions volume of POSIX.1?2017, Section 8.2, Internationalization Variables for the precedence of internationalization variables used to determine the values of locale categories.)

LC_ALL If set to a non-empty string value, override the values of all the other internationalization variables.

LC_CTYPE Determine the locale for the interpretation of sequences of bytes of text data as characters (for example, single-byte as opposed to multi-byte characters in arguments).

LC_MESSAGES

Determine the locale that should be used to affect the format and contents of diagnostic messages written to standard error.

NLSPATH Determine the location of message catalogs for the processing of `LC_MESSAGES`.

ASYNCHRONOUS EVENTS

Default.

STDOUT

Not used.

STDERR

The standard error shall be used only for diagnostic messages.

OUTPUT FILES

None.

EXTENDED DESCRIPTION

None.

EXIT STATUS

The following exit values shall be returned:

0 The utility executed successfully and all requested changes were made.

>0 An error occurred.

CONSEQUENCES OF ERRORS

Default.

The following sections are informative.

APPLICATION USAGE

Only the owner of a file or the user with appropriate privileges may change the owner or group of a file.

Some implementations restrict the use of `chgrp` to a user with appropriate privileges when the group specified is not the effective group ID or one of the supplementary group IDs of the calling process.

EXAMPLES

None.

RATIONALE

The System V and BSD versions use different exit status codes. Some implementations used the exit status as a count of the number of errors that occurred; this practice is unworkable since it can overflow the range of valid exit status values. The standard developers chose to mask these by specifying only 0 and >0 as exit values.

The functionality of `chgrp` is described substantially through references to `chown()`. In this way, there is no duplication of effort required for describing the interactions of permissions, multiple groups,

and so on.

FUTURE DIRECTIONS

None.

SEE ALSO

chmod, chown

The Base Definitions volume of POSIX.1?2017, Chapter 8, Environment Variables, Section 12.2, Utility Syntax Guidelines

The System Interfaces volume of POSIX.1?2017, chown()

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