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

\$ man pathconf.3

FPATHCONF(3) Linux Programmer's Manual

FPATHCONF(3)

NAME

fpathconf, pathconf - get configuration values for files

SYNOPSIS

#include <unistd.h>

long fpathconf(int fd, int name);

long pathconf(const char *path, int name);

DESCRIPTION

fpathconf() gets a value for the configuration option name for the open

file descriptor fd.

pathconf() gets a value for configuration option name for the filename path.

The corresponding macros defined in <unistd.h> are minimum values; if an application wants to take advantage of values which may change, a call to fpathconf() or pathconf() can be made, which may yield more liberal results.

Setting name equal to one of the following constants returns the fol? lowing configuration options:

_PC_LINK_MAX

The maximum number of links to the file. If fd or path refer to a directory, then the value applies to the whole directory. The corresponding macro is _POSIX_LINK_MAX.

_PC_MAX_CANON

The maximum length of a formatted input line, where fd or path

must refer to a terminal. The corresponding macro is

_POSIX_MAX_CANON.

_PC_MAX_INPUT

The maximum length of an input line, where fd or path must refer

to a terminal. The corresponding macro is _POSIX_MAX_INPUT.

_PC_NAME_MAX

The maximum length of a filename in the directory path or fd that the process is allowed to create. The corresponding macro is _POSIX_NAME_MAX.

_PC_PATH_MAX

The maximum length of a relative pathname when path or fd is the current working directory. The corresponding macro is _POSIX_PATH_MAX.

_PC_PIPE_BUF

The maximum number of bytes that can be written atomically to a pipe of FIFO. For fpathconf(), fd should refer to a pipe or FIFO. For fpathconf(), path should refer to a FIFO or a direc? tory; in the latter case, the returned value corresponds to FI? FOs created in that directory. The corresponding macro is _POSIX_PIPE_BUF.

_PC_CHOWN_RESTRICTED

This returns a positive value if the use of chown(2) and fchown(2) for changing a file's user ID is restricted to a process with appropriate privileges, and changing a file's group ID to a value other than the process's effective group ID or one of its supplementary group IDs is restricted to a process with appropriate privileges. According to POSIX.1, this variable shall always be defined with a value other than -1. The corre? sponding macro is _POSIX_CHOWN_RESTRICTED. If fd or path refers to a directory, then the return value ap? plies to all files in that directory.

This returns nonzero if accessing filenames longer than

_POSIX_NAME_MAX generates an error. The corresponding macro is

_POSIX_NO_TRUNC.

_PC_VDISABLE

This returns nonzero if special character processing can be dis?

abled, where fd or path must refer to a terminal.

RETURN VALUE

The return value of these functions is one of the following:

- * On error, -1 is returned and errno is set to indicate the cause of the error (for example, EINVAL, indicating that name is invalid).
- * If name corresponds to a maximum or minimum limit, and that limit is indeterminate, -1 is returned and errno is not changed. (To distin? guish an indeterminate limit from an error, set errno to zero before the call, and then check whether errno is nonzero when -1 is re? turned.)
- * If name corresponds to an option, a positive value is returned if the option is supported, and -1 is returned if the option is not supported.
- * Otherwise, the current value of the option or limit is returned. This value will not be more restrictive than the corresponding value that was described to the application in <unistd.h> or <limits.h> when the application was compiled.

ERRORS

EACCES (pathconf()) Search permission is denied for one of the directo? ries in the path prefix of path.

EBADF (fpathconf()) fd is not a valid file descriptor.

EINVAL name is invalid.

- EINVAL The implementation does not support an association of name with the specified file.
- ELOOP (pathconf()) Too many symbolic links were encountered while re? solving path.

ENAMETOOLONG

(pathconf()) path is too long.

 $\mathsf{ENOENT}\xspace$ (pathconf()) A component of path does not exist, or path is an

empty string.

ENOTDIR

(pathconf()) A component used as a directory in path is not in fact a directory.

ATTRIBUTES

For an explanation of the terms used in this section, see at? tributes(7).

?Interface ? Attribute ? Value ?

?fpathconf(), pathconf() ? Thread safety ? MT-Safe ?

CONFORMING TO

POSIX.1-2001, POSIX.1-2008.

NOTES

Files with name lengths longer than the value returned for name equal

to _PC_NAME_MAX may exist in the given directory.

Some returned values may be huge; they are not suitable for allocating memory.

SEE ALSO

getconf(1), open(2), statfs(2), confstr(3), sysconf(3)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.

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