

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 following configuration options:

`_PC_LINK_MAX`

returns 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`

returns 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`

returns 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`

returns 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`

returns 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`

returns the size of the pipe buffer, where *fd* must refer to a pipe or FIFO and *path* must refer to a FIFO. The corresponding macro is `_POSIX_PIPE_BUF`.

`_PC_CHOWN_RESTRICTED`

returns nonzero if the `chown(2)` call may not be used on this file. If *fd* or *path* refer to a directory, then this applies to all files in that directory. The corresponding macro is `_POSIX_CHOWN_RESTRICTED`.

`_PC_NO_TRUNC`

returns nonzero if accessing filenames longer than `_POSIX_NAME_MAX` generates an error. The corresponding macro is `_POSIX_NO_TRUNC`.

`_PC_VDISABLE`

returns nonzero if special character processing can be disabled, where *fd* or *path* must refer to a terminal.

RETURN VALUE

The limit is returned, if one exists. If the system does not have a limit for the requested resource, -1 is returned, and *errno* is unchanged. If there is an error, -1 is returned, and *errno* is set to reflect the nature of the error.

CONFORMING TO

POSIX.1-2001.

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

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