

**NAME**

Cwd - get pathname of current working directory

**SYNOPSIS**

```
use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);
```

**DESCRIPTION**

This module provides functions for determining the pathname of the current working directory. It is recommended that `getcwd` (or another *\***cwd***() function) be used in *all* code to ensure portability.

By default, it exports the functions **cwd()**, **getcwd()**, **fastcwd()**, and **fastgetcwd()** (and, on Win32, **getdcwd()**) into the caller's namespace.

**getcwd and friends**

Each of these functions are called without arguments and return the absolute path of the current working directory.

```
getcwd
my $cwd = getcwd();
```

Returns the current working directory. On error returns "undef", with \$! set to indicate the error.

Exposes the POSIX function **getcwd(3)** or re-implements it if it's not available.

```
cwd
my $cwd = cwd();
```

The **cwd()** is the most natural form for the current architecture. For most systems it is identical to 'pwd' (but without the trailing line terminator).

```
fastcwd
my $cwd = fastcwd();
```

A more dangerous version of **getcwd()**, but potentially faster.

It might conceivably **chdir()** you out of a directory that it can't **chdir()** you back into. If **fastcwd**

encounters a problem it will return undef but will probably leave you in a different directory. For a measure of extra security, if everything appears to have worked, the **fastcwd()** function will check that it leaves you in the same directory that it started in. If it has changed it will "die" with the message "Unstable directory path, current directory changed unexpectedly". That should never happen.

fastgetcwd

```
my $cwd = fastgetcwd();
```

The **fastgetcwd()** function is provided as a synonym for **cwd()**.

getdcwd

```
my $cwd = getdcwd();  
my $cwd = getdcwd('C:');
```

The **getdcwd()** function is also provided on Win32 to get the current working directory on the specified drive, since Windows maintains a separate current working directory for each drive. If no drive is specified then the current drive is assumed.

This function simply calls the Microsoft C library **\_getdcwd()** function.

### **abs\_path and friends**

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

abs\_path

```
my $abs_path = abs_path($file);
```

Uses the same algorithm as **getcwd()**. Symbolic links and relative-path components (".", "..") are resolved to return the canonical pathname, just like **realpath(3)**. On error returns "undef", with \$! set to indicate the error.

realpath

```
my $abs_path = realpath($file);
```

A synonym for **abs\_path()**.

fast\_abs\_path

```
my $abs_path = fast_abs_path($file);
```

A more dangerous, but potentially faster version of `abs_path`.

### **\$ENV{PWD}**

If you ask to override your `chdir()` built-in function,

```
use Cwd qw(chdir);
```

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use `chdir` import it from `Cwd`.

### **NOTES**

- ⊕ Since the path separators are different on some operating systems (`'/'` on Unix, `':'` on MacPerl, etc...) we recommend you use the `File::Spec` modules wherever portability is a concern.
- ⊕ Actually, on Mac OS, the `"getcwd()"`, `"fastgetcwd()"` and `"fastcwd()"` functions are all aliases for the `"cwd()"` function, which, on Mac OS, calls `'pwd'`. Likewise, the `"abs_path()"` function is an alias for `"fast_abs_path()"`.

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### **SEE ALSO**

`File::chdir`