

# cpack(1)

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## Synopsis

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cpack -G <generator> [<options>]
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## Description

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The “cpack” executable is the CMake packaging program. CMake-generated build trees created for projects that use the `INSTALL_*` commands have packaging support. This program will generate the package.

CMake is a cross-platform build system generator. Projects specify their build process with platform-independent CMake listfiles included in each directory of a source tree with the name `CMakeLists.txt`. Users build a project by using CMake to generate a build system for a native tool on their platform.

## Options

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`-G <generator>`

Use the specified generator to generate package.

CPack may support multiple native packaging systems on certain platforms. A generator is responsible for generating input files for particular system and invoking that systems. Possible generator names are specified in the Generators section.

`-C <Configuration>`

Specify the project configuration

This option specifies the configuration that the project was build with, for example ‘Debug’, ‘Release’.

`-D <var>=<value>`

Set a CPack variable.

Set a variable that can be used by the generator.

`--config <config file>`

Specify the config file.

Specify the config file to use to create the package. By default CPackConfig.cmake in the current directory will be used.

--verbose, -V

enable verbose output

Run cpack with verbose output.

--debug

enable debug output (for CPack developers)

Run cpack with debug output (for CPack developers).

-P <package name>

override/define CPACK\_PACKAGE\_NAME

If the package name is not specified on cpack command line thenCPack.cmake defines it as CMAKE\_PROJECT\_NAME

-R <package version>

override/define CPACK\_PACKAGE\_VERSION

If version is not specified on cpack command line thenCPack.cmake defines it from CPACK\_PACKAGE\_VERSION\_[MAJOR|MINOR|PATCH]look into CPack.cmake for detail

-B <package directory>

override/define CPACK\_PACKAGE\_DIRECTORY

The directory where CPack will be doing its packaging work.The resulting package will be found there. Inside this directoryCPack creates '\_CPack\_Packages' sub-directory which is theCPack temporary directory.

--vendor <vendor name>

override/define CPACK\_PACKAGE\_VENDOR

If vendor is not specified on cpack command line (or inside CMakeLists.txt) thenCPack.cmake defines it with a default value

--help, -help, -usage, -h, -H, /?

Print usage information and exit.

Usage describes the basic command line interface and its options.

--version, -version, /V [<f>]

Show program name/version banner and exit.

If a file is specified, the version is written into it. The help is printed to a named <f>ile if given.

`--help-full [<f>]`

Print all help manuals and exit.

All manuals are printed in a human-readable text format. The help is printed to a named <f>ile if given.

`--help-manual <man> [<f>]`

Print one help manual and exit.

The specified manual is printed in a human-readable text format. The help is printed to a named <f>ile if given.

`--help-manual-list [<f>]`

List help manuals available and exit.

The list contains all manuals for which help may be obtained by using the `--help-manual` option followed by a manual name. The help is printed to a named <f>ile if given.

`--help-command <cmd> [<f>]`

Print help for one command and exit.

The [cmake-commands\(7\)](#) manual entry for <cmd> is printed in a human-readable text format. The help is printed to a named <f>ile if given.

`--help-command-list [<f>]`

List commands with help available and exit.

The list contains all commands for which help may be obtained by using the `--help-command` option followed by a command name. The help is printed to a named <f>ile if given.

`--help-commands [<f>]`

Print cmake-commands manual and exit.

The [cmake-commands\(7\)](#) manual is printed in a human-readable text format. The help is printed to a named <f>ile if given.

`--help-module <mod> [<f>]`

Print help for one module and exit.

The [cmake-modules\(7\)](#) manual entry for `<mod>` is printed in a human-readable text format. The help is printed to a named `<f>ile` if given.

`--help-module-list [<f>]`

List modules with help available and exit.

The list contains all modules for which help may be obtained by using the `--help-module` option followed by a module name. The help is printed to a named `<f>ile` if given.

`--help-modules [<f>]`

Print cmake-modules manual and exit.

The [cmake-modules\(7\)](#) manual is printed in a human-readable text format. The help is printed to a named `<f>ile` if given.

`--help-policy <cmp> [<f>]`

Print help for one policy and exit.

The [cmake-policies\(7\)](#) manual entry for `<cmp>` is printed in a human-readable text format. The help is printed to a named `<f>ile` if given.

`--help-policy-list [<f>]`

List policies with help available and exit.

The list contains all policies for which help may be obtained by using the `--help-policy` option followed by a policy name. The help is printed to a named `<f>ile` if given.

`--help-policies [<f>]`

Print cmake-policies manual and exit.

The [cmake-policies\(7\)](#) manual is printed in a human-readable text format. The help is printed to a named `<f>ile` if given.

`--help-property <prop> [<f>]`

Print help for one property and exit.

The [cmake-properties\(7\)](#) manual entries for `<prop>` are printed in a human-readable text format. The help is printed to a named `<f>ile` if given.

`--help-property-list [<f>]`

List properties with help available and exit.

The list contains all properties for which help may be obtained by using the `--help-property` option followed by a property name. The help is printed to a named `<f>`ile if given.

`--help-properties [<f>]`

Print cmake-properties manual and exit.

The [cmake-properties\(7\)](#) manual is printed in a human-readable text format. The help is printed to a named `<f>`ile if given.

`--help-variable <var> [<f>]`

Print help for one variable and exit.

The [cmake-variables\(7\)](#) manual entry for `<var>` is printed in a human-readable text format. The help is printed to a named `<f>`ile if given.

`--help-variable-list [<f>]`

List variables with help available and exit.

The list contains all variables for which help may be obtained by using the `--help-variable` option followed by a variable name. The help is printed to a named `<f>`ile if given.

`--help-variables [<f>]`

Print cmake-variables manual and exit.

The [cmake-variables\(7\)](#) manual is printed in a human-readable text format. The help is printed to a named `<f>`ile if given.

## See Also

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The following resources are available to get help using CMake:

Home Page

<https://cmake.org>

The primary starting point for learning about CMake.

Frequently Asked Questions

[https://cmake.org/Wiki/CMake\\_FAQ](https://cmake.org/Wiki/CMake_FAQ)

A Wiki is provided containing answers to frequently asked questions.

#### Online Documentation

<https://cmake.org/documentation>

Links to available documentation may be found on this web page.

#### Mailing List

<https://cmake.org/mailling-lists>

For help and discussion about using cmake, a mailing list is provided at [cmake@cmake.org](mailto:cmake@cmake.org). The list is member-post-only but one may sign up on the CMake web page. Please first read the full documentation at <https://cmake.org> before posting questions to the list.