

**NAME**

cpack - CPack Command-Line Reference

**SYNOPSIS**

```
cpack -G <generator> [<options>]
```

**DESCRIPTION**

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****-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 then `CPack.cmake` defines it as `CMAKE_PROJECT_NAME`

**-R <package version>**

override/define `CPACK_PACKAGE_VERSION`

If version is not specified on cpack command line then `CPack.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 directory CPack creates '\_CPack\_Packages' sub-directory which is the CPack temporary directory.

**--vendor <vendor name>**

override/define CPACK\_PACKAGE\_VENDOR

If vendor is not specified on cpack command line (or inside CMakeLists.txt) then CPack.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**

The following resources are available to get help using CMake:

**Home Page**

<http://www.cmake.org>

The primary starting point for learning about CMake.

**Frequently Asked Questions**

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

A Wiki is provided containing answers to frequently asked questions.

**Online Documentation**

<http://www.cmake.org/HTML/Documentation.html>

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

**Mailing List**

<http://www.cmake.org/HTML/MailingLists.html>

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 <http://www.cmake.org> before posting questions to the list.

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