

**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 C-Pack.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>` file 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>` file 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>` file 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>` file 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>` file 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>` file 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>` file 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>` file 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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