

cpack(1)

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>` 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>` file 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>` file 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>` file 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

A Wiki is provided containing answers to frequently asked questions.

Online Documentation

<http://www.cmake.org/documentation>

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

Mailing List

<http://www.cmake.org/mailling-lists>

For help and discussion about using cmake, a mailing list is provided at 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.