NAME

pkgconf - a system for configuring build dependency information

SYNOPSIS

pkgconf [*options*] [*list of modules*]

DESCRIPTION

pkgconf is a program which helps to configure compiler and linker flags for development libraries. This allows build systems to detect other dependencies and use them with the system toolchain.

GENERAL OPTIONS

--version

> Display the supported pkg-config version and exit.

--atleast-pkgconfig-version=*VERSION*

> Exit with error if we do not support the requested pkg-config version.

--errors-to-stdout

> Print all errors on the main output stream instead of the error output stream.

--silence-errors

> Do not display any errors at all.

--list-all

> Walk all directories listed in the *PKG_CONFIG_PATH* environmental variable and display information on packages which have registered information there.

--simulate

> Simulates resolving a dependency graph based on the requested modules on the command line. Dumps a series of trees denoting pkgconf's resolver state.

--no-cache

> Skip caching packages when they are loaded into the internal resolver. This may result in an alternate dependency graph being computed.

--ignore-conflicts

> Ignore 'Conflicts' rules in modules.

--env-only

> Learn about pkgconf's configuration strictly from environmental variables.

--validate *package ...*
>   Validate specific '.pc' files for correctness.

--maximum-traverse-depth=*DEPTH*
>   Impose a limit on the allowed depth in the dependency graph. For example, a depth of 2 will
>   restrict the resolver from acting on child dependencies of modules added to the resolver's
>   solution.

--static
>   Compute a deeper dependency graph and use compiler/linker flags intended for static linking.

--shared
>   Compute a simple dependency graph that is only suitable for shared linking.

--pure Treats the computed dependency graph as if it were pure. This is mainly intended for use with
>   the **--static** flag.

--no-provides
>   Ignore 'Provides' rules in modules when resolving dependencies.

--with-path=*PATH*
>   Adds a new module search path to pkgconf's dependency resolver. Paths added in this way are
>   given preference before other paths.

--define-prefix
>   Attempts to determine the prefix variable to use for CFLAGS and LIBS entry relocations. This
>   is mainly useful for platforms where framework SDKs are relocatable, such as Windows.

--dont-define-prefix
>   Disables the 'define-prefix' feature.

--prefix-variable=*VARIABLE*
>   Sets the 'prefix' variable used by the 'define-prefix' feature.

--relocate=*PATH*
>   Relocates a path using the pkgconf_path_relocate API. This is mainly used by the testsuite to
>   provide a guaranteed interface to the system's path relocation backend.

--dont-relocate-paths
>   Disables the path relocation feature.

MODULE-SPECIFIC OPTIONS

--atleast-version=*VERSION*

      Exit with error if a module's version is less than the specified version.

--exact-version=*VERSION*

      Exit with error if a module's version is not exactly the specified version.

--max-version=*VERSION*

      Exit with error if a module's version is greater than the specified version.

--exists

      Exit with a non-zero result if the dependency resolver was unable to find all of the requested modules.

--uninstalled

      Exit with a non-zero result if the dependency resolver uses an 'uninstalled' module as part of its solution.

--no-uninstalled

      Forbids the dependency resolver from considering 'uninstalled' modules as part of a solution.

QUERY-SPECIFIC OPTIONS

--cflags, **--cflags-only-I**, **--cflags-only-other**

      Display either all CFLAGS, only **-I** CFLAGS or only CFLAGS that are not **-I**.

--libs, **--libs-only-L**, **--libs-only-l**, **--libs-only-other**

      Display either all linker flags, only **-L** linker flags, only **-l** linker flags or only linker flags that are not **-L** or **-l**.

--keep-system-cflags, **--keep-system-libs**

      Keep CFLAGS or linker flag fragments that would be filtered due to being included by default in the compiler.

--define-variable=*VARNAME=VALUE*

      Define *VARNAME* as *VALUE*. Variables are used in query output, and some modules' results may change based on the presence of a variable definition.

--print-variables

      Print all seen variables for a module to the output channel.

--print-provides
> Print all relevant 'Provides' entries for a module to the output channel.

--variable=*VARNAME*
> Print the value of *VARNAME*.

--print-requires, **--print-requires-private**
> Print the modules included in either the *Requires* field or the *Requires.private* field.

--digraph
> Dump the dependency resolver's solution as a graphviz 'dot' file. This can be used with
> graphviz to visualize module interdependencies.

--path Display the filenames of the '.pc' files used by the dependency resolver for a given dependency
> set.

--env=*VARNAME*
> Print the requested values as variable declarations in a similar format as the env(1) command.

--fragment-filter=*TYPES*
> Filter the fragment lists for the specified types.

--modversion
> Print the version of the queried module.

ENVIRONMENT
   PKG_CONFIG_PATH
> List of secondary directories where '.pc' files are looked up.

   PKG_CONFIG_LIBDIR
> List of primary directories where '.pc' files are looked up.

   PKG_CONFIG_SYSROOT_DIR
> 'sysroot' directory, will be prepended to every path defined in *PKG_CONFIG_PATH*. Useful
> for cross compilation.

   PKG_CONFIG_TOP_BUILD_DIR
> Provides an alternative setting for the 'pc_top_builddir' global variable.

   PKG_CONFIG_PURE_DEPGRAPH

If set, enables the same behaviour as the **--pure** flag.

PKG_CONFIG_SYSTEM_INCLUDE_PATH

List of paths that are considered system include paths by the toolchain. This is a pkgconf-specific extension.

PKG_CONFIG_SYSTEM_LIBRARY_PATH

List of paths that are considered system library paths by the toolchain. This is a pkgconf-specific extension.

PKG_CONFIG_DISABLE_UNINSTALLED

If set, enables the same behaviour as the **--no-uninstalled** flag.

PKG_CONFIG_LOG

'logfile' which is used for dumping audit information concerning installed module versions.

PKG_CONFIG_DEBUG_SPEW

If set, enables additional debug logging. The format of the debug log messages is implementation-specific.

PKG_CONFIG_DONT_RELOCATE_PATHS

If set, disables the path relocation feature.

PKG_CONFIG_MSVC_SYNTAX

If set, uses MSVC syntax for fragments.

PKG_CONFIG_FDO_SYSROOT_RULES

If set, follow the sysroot prefixing rules that freedesktop.org pkg-config uses.

DESTDIR

If set to PKG_CONFIG_SYSROOT_DIR, assume that PKG_CONFIG_FDO_SYSROOT_RULES is set.

EXAMPLES

Displaying the CFLAGS of a package:

    $ pkgconf --cflags foo
    -fPIC -I/usr/include/foo

SEE ALSO

pc(5), pkg.m4(7)