

Package ‘Rigraphlib’

May 26, 2026

Type Package

Version 1.5.1

Date 2026-05-08

Title igraph library as an R package

License GPL-3

Description Vendors the igraph C source code and builds it into a static library.

Other Bioconductor packages can link to libigraph.a in their own C/C++ code.

This is intended for packages wrapping C/C++ libraries that depend on the igraph C library and cannot be easily adapted to use the igraph R package.

LinkingTo biocmake

Suggests BiocStyle, knitr, rmarkdown, testthat

VignetteBuilder knitr

biocViews Clustering, GraphAndNetwork

NeedsCompilation yes

URL <https://github.com/libscran/Rigraphlib>

BugReports <https://github.com/libscran/Rigraphlib/issues>

Encoding UTF-8

RoxygenNote 7.3.3

git_url <https://git.bioconductor.org/packages/Rigraphlib>

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pkgconfig

Configure compilation flags

Description

Configure flags for compiling downstream packages.

Usage

```
pkgconfig(opt = c("PKG_CPPFLAGS", "PKG_LIBS"))
```

Arguments

opt String specifying the Makevars option to print.

Details

If the RIGRAPHLIB_<OPT> environment variable is set (where <OPT> is replaced by opt), the contents of that variable will be printed by this function, regardless of any other settings.

If the RIGRAPHLIB_USE_SYSTEM_LIBRARY environment was set to 1 during **Rigraphlib** installation or is currently set to 1, this function will print the output of pkg-config igrph relevant to the requested opt. If igrph cannot be found by pkg-config, an error is thrown.

Otherwise, this function will print flags to link to the binaries generated from the vendored **igrph** source.

If any of the above environment variables are specified, the version of the corresponding **igrph** instance should be consistent with that of the vendored **igrph** source. See [version\(TRUE\)](#) for the expected version of the **igrph** library.

Value

Flags to add to the requested opt of the Makevars are printed to the screen.

Author(s)

Aaron Lun

Examples

```
pkgconfig("PKG_CPPFLAGS")
pkgconfig("PKG_LIBS")
```

| | |
|---------|---------------------------------------|
| version | <i>Version of the igraph library.</i> |
|---------|---------------------------------------|

Description

Reports the version of the igraph library used by `pkgconfig`.

Usage

```
version(expected = FALSE)
```

Arguments

| | |
|-----------------------|---|
| <code>expected</code> | Boolean indicating whether to report the version of igraph expected by Rigraphlib and its downstream dependencies. This corresponds to the version that is vendored into the Rigraphlib package. |
|-----------------------|---|

Details

If the `RIGRAPHLIB_LIBRARY_VERSION` environment variable is set, the contents of that variable will be returned by this function if `expected=FALSE`.

If the `RIGRAPHLIB_USE_SYSTEM_LIBRARY` variable was set to 1 during **Rigraphlib** installation or is currently set to 1, the version of **igraph** reported by `pkg-config` is returned if `expected=FALSE`. If **igraph** cannot be found by `pkg-config`, an error is thrown.

Otherwise, the version of the vendored **igraph** is returned.

Value

If `expected=FALSE`, the actual version of the **igraph** library linked by `pkgconfig`.

If `expected=TRUE`, the expected version of the **igraph** library to be provided by **Rigraphlib**.

Examples

```
Rigraphlib::version()
```

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