Package 'Rigraphlib'

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Type Package

Version 1.4.0

Date 2025-12-07

Title igraph library as an R package

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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 igraph` relevant to the requested `opt`. If `igraph` 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 **igraph** source.

If any of the above environment variables are specified, the version of the corresponding **igraph** instance should be consistent with that of the vendored **igraph** source. See `version(TRUE)` for the expected version of the **igraph** 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` *Version of the igraph library.*

Description

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

Usage

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

Arguments

`expected`	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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