

Package ‘Rhdf5lib’

June 7, 2023

Type Package

Title hdf5 library as an R package

Version 1.22.0

Description Provides C and C++ hdf5 libraries.

License Artistic-2.0

Copyright src/hdf5/COPYING

LazyLoad true

VignetteBuilder knitr

Depends R (>= 4.2.0)

Suggests BiocStyle, knitr, rmarkdown, tinytest, mockery

URL <https://github.com/grimbough/Rhdf5lib>

BugReports <https://github.com/grimbough/Rhdf5lib>

SystemRequirements GNU make

Encoding UTF-8

biocViews Infrastructure

RoxygenNote 7.1.2

git_url <https://git.bioconductor.org/packages/Rhdf5lib>

git_branch RELEASE_3_17

git_last_commit 2bf06b3

git_last_commit_date 2023-04-25

Date/Publication 2023-06-06

Author Mike Smith [ctb, cre] (<<https://orcid.org/0000-0002-7800-3848>>),
The HDF Group [cph]

Maintainer Mike Smith <grimbough@gmail.com>

R topics documented:

.getDynamicLinks	2
.getSzipLoc	2
getHdf5Version	3
pkgconfig	3
Rhdf5lib	4
Index	5

.getDynamicLinks	<i>Return the link flags determined when HDF5 was configured</i>
------------------	--

Description

Return the link flags determined when HDF5 was configured

Usage

.getDynamicLinks()

.getSzipLoc	<i>If we compiled our own version of SZIP this returns the link path Otherwise it returns an empty string.</i>
-------------	--

Description

If we compiled our own version of SZIP this returns the link path Otherwise it returns an empty string.

Usage

.getSzipLoc(path)

getHdf5Version	<i>Report the version of HDF5 distributed with this package</i>
----------------	---

Description

This function returns the version number of the HDF5 library that is distributed with this package.

Usage

```
getHdf5Version()
```

Value

Returns a character vector of length 1 containing the version number.

Examples

```
getHdf5Version()
```

pkgconfig	<i>Compiler arguments for using Rhdf5lib</i>
-----------	--

Description

This function returns values for PKG_LIBS variables for use in Makevars files.

Usage

```
pkgconfig(
  opt = c("PKG_CXX_LIBS", "PKG_C_LIBS", "PKG_CXX_HL_LIBS", "PKG_C_HL_LIBS")
)
```

Arguments

opt	A scalar character from the list of available options; default is PKG_CXX_LIBS. Valid options are PKG_C_LIBS, PKG_CXX_LIBS, PKG_C_HL_LIBS and PKG_CXX_HL_LIBS, where HL indicates that you want to include the HDF5 'high-level' API and CXX denotes including the C++ interface.
-----	---

Value

NULL; prints the corresponding value to stdout.

Examples

```
pkgconfig("PKG_C_LIBS")  
pkgconfig("PKG_CXX_LIBS")  
pkgconfig("PKG_C_HL_LIBS")  
pkgconfig("PKG_CXX_HL_LIBS")
```

Rhdf5lib*Rhdf5lib: A version of the HDF5 library built into an R package.*

Description

This package provides a compiled version of the HDF5 library bundled within the R package structure. It is primarily useful to developers of other R packages who want to make use of the capabilities of the HDF5 library directly in the C or C++ code of their own packages, rather than using a higher level interface.

Index

* **internal**

.getDynamicLinks, [2](#)

.getSzipLoc, [2](#)

.getDynamicLinks, [2](#)

.getSzipLoc, [2](#)

getHdf5Version, [3](#)

pkgconfig, [3](#)

Rhdf5lib, [4](#)