Package 'hdf5lib'

December 2, 2025

Type Package

Title Headers and Static Libraries for 'HDF5'

Version 2.0.0.2

Description 'HDF5' (Hierarchical Data Format 5) is a high-performance
library and file format for storing and managing large, complex
data. This package provides the static libraries and headers for
the 'HDF5' 'C' library (release 2.0.0). It is intended for R
package developers to use in the 'LinkingTo' field, which
eliminates the need for users to install system-level 'HDF5'
dependencies. This build is compiled with thread-safety enabled
and supports dynamic loading of external compression filters.
'HDF5' is developed by 'The HDF Group' <https://www.hdfgroup.org/>.

URL https://github.com/cmmr/hdf5lib, https://cmmr.github.io/hdf5lib/

BugReports https://github.com/cmmr/hdf5lib/issues

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Encoding UTF-8

Depends R (>= 4.2.0)

NeedsCompilation yes

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

Config/testthat/edition 3

RoxygenNote 7.3.3

Config/Needs/website rmarkdown

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Repository CRAN

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c_flags   *Get C/C++ Compiler Flags for hdf5lib*

Description

Provides the required C/C++ compiler flags to find the HDF5 header files bundled with the `hdf5lib` package.

Usage

```
c_flags(api = "latest")
```

Arguments

api   A character string specifying the HDF5 API version to use. This adds a prepro-
       cessor directive like `-DH5_USE_114_API_DEFAULT` to ensure that the compiled
       code uses symbols compatible with a specific version of the HDF5 API. This is
       useful for maintaining compatibility with older HDF5 versions. Supported val-
       ues are `200`, `114`, `112`, `110`, `18`,and `16`. Defaults to `"latest"`, which corresponds
       to the newest supported API version.

Value

A scalar character vector containing the compiler flags (e.g., the `-I` path to the package's `inst/include` directory).

See Also

[ld_flags()](ld_flags)

Examples

```
c_flags()
c_flags(api = "114")
```

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ld_flags   *Get C/C++ Linker Flags for hdf5lib*

Description

Provides the required linker flags to link against the static HDF5 library (libhdf5z.a) bundled with the hdf5lib package.

Usage

```
ld_flags(api = "latest")
```

Arguments

api   A character string specifying the HDF5 API version. This parameter is included
                for consistency with [c_flags()](#) and is reserved for future use. It currently has
                no effect on the linker flags. Supported values are 200, 114, 112, 110, 18, and
                16. Defaults to "latest".

Value

A scalar character vector containing the linker flags.

See Also

[c_flags()](#)

Examples

```
ld_flags()
```

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