Package 'hdf5lib'

December 14, 2025

Type Package

Title Headers and Static Libraries for 'HDF5'

Version 2.0.0.3

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

License MIT + file LICENSE

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

Author Daniel P. Smith [aut, cre] (ORCID:
<https://orcid.org/0000-0002-2479-2044>),
The HDF Group [cph] (Copyright holder of the HDF5 library),
Jean-loup Mark [cph] (Copyright holder of the zlib library),
Gailly Adler [cph] (Copyright holder of the zlib library)

Maintainer Daniel P. Smith <dansmith01@gmail.com>

Repository CRAN

Date/Publication 2025-12-14 09:20:02 UTC

Contents

Index   **4**

---

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 numeric value specifying the HDF5 API version to use (e.g., 114 for v1.14), or
               the string `"latest"`. This adds a preprocessor directive like `-DH5_USE_114_API_DEFAULT`
               to ensure that the compiled code uses symbols compatible with a specific ver-
               sion of the HDF5 API. This is useful for maintaining compatibility with older
               HDF5 versions. Supported values 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()](#)

Examples

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

---

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 numeric value or the string `"latest"`. This parameter is included for consistency with `c_flags()` and is reserved for future use; it currently has no effect on the linker flags. Defaults to `"latest"`.

Value

A scalar character vector containing the linker flags.

See Also

`c_flags()`

Examples

```
ld_flags()
```

Index