

Package ‘hdf5lib’

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Type Package

Title Headers and Static Libraries for 'HDF5'

Version 2.1.1.0

Description Provides a self-contained, static build of the 'HDF5' (Hierarchical Data Format 5) 'C' library (release 2.1.1) for R package developers. Designed for use in the 'LinkingTo' field, it enables zero-dependency integration by building the library entirely from source during installation. Additionally, it compiles and internally links a comprehensive suite of advanced compression filters and their 'HDF5' plugins (Zstd, LZ4, Blosc/Blosc2, Snappy, ZFP, Bzip2, LZF, Bitshuffle, szip, and gzip). These plugins are integrated out-of-the-box, allowing downstream packages to utilize high-performance compression directly through the standard 'HDF5' API while keeping the underlying third-party headers fully encapsulated. '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

RoxygenNote 7.3.3

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c_flags	<i>Get C/C++ Compiler Flags for hdf5lib</i>
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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., 1.14 or 114 for v1.14), or the string "latest". This adds a preprocessor directive like <code>-DH5_USE_114_API_DEFAULT</code> 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 values are 2.0, 1.14, 1.12, 1.10, 1.8, and 1.6. Defaults to "latest", which corresponds to the newest supported API version.
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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 = 1.14)
```

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".
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Value

A scalar character vector containing the linker flags.

See Also

[c_flags\(\)](#)

Examples

```
ld_flags()
```

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