Package 'hdf5lib'

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Type Package

Title Headers and Static Libraries for 'HDF5'

Version 2.1.1.1

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` *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., `1.14` or `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 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.

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"`.

Value

A scalar character vector containing the linker flags.

See Also

`c_flags()`

Examples

```
ld_flags()
```

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