Package: RcppIconvExample (via r-universe)

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Type Package

Title Rcpp Example of Using Iconv Offered by R

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Maintainer Dirk Eddelbuettel <edd@debian.org>

Description Character conversion via the 'iconv' library is used by R itself, and can be accessed from compiled code relying on one standard header exported by R. This package illustrates this usage by building on and extending an earlier example in a blog post at <https://fishandwhistle.net/post/2021/using-rs-cross-platform-iconv-wrapper-from-cpp11/>. Rcpp is used only for its convenience of seamlessly building the package, and converting between character variable at the R and C++ levels.

License GPL (>= 2)

Suggests tinytest

LinkingTo Rcpp

Imports Rcpp

RoxygenNote 6.0.1

Encoding UTF-8

Repository https://eddelbuettel.r-universe.dev

RemoteUrl https://github.com/eddelbuettel/rcppiconvexample

RemoteRef HEAD

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Contents

`RcppIconvExample-package` *Rcpp Example of Using Iconv Offered by R*

Description

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Package Content

Index: This package was not yet installed at build time.

Maintainer

Dirk Eddelbuettel <edd@debian.org>

Author(s)

Dirk Eddelbuettel

`read_file` *Read an Enconded File, Optionally Converting to Another Encoding*

Description

This function relies on the 'iconv' facility available with R. Having 'iconv' is optional but likely for most builds of R; see `capabilities("iconv")` to verify. Also note that 'iconv', while portable, does not guarantee identical results across implementations and operating systems.

Usage

```
read_file(filename, encoding = "")
```

Arguments

`filename`	[string] A filename
`encoding`	[string, optional] An encoding. If present, file content is converted to the given encoding; if missing (as indicated by the default empty string) no conversion is made.

Value

A string

See Also

https://fishandwhistle.net/post/2021/using-rs-cross-platform-iconv-wrapper-from-cpp11/

Examples

```
## example file from package 'uchardet' encoding as windows-1252
win1252file <- system.file("rawdata", "windows-1252.txt", package="RcppIconvExample")
win1252txt <- read_file(win1252file, "windows-1252")
utf8file <- system.file("rawdata", "utf8.txt", package="RcppIconvExample")
utf8txt <- read_file(utf8file, "UTF-8")
stopifnot(substr(win1252txt, 1, 62) == substr(utf8txt, 1, 62))
cat(win1252txt)
```

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