Package 'pfr'

February 26, 2023

Type Package

Title What the package does (short line)

Version 1.0

Date 2023-02-26

Author Who wrote it

Maintainer Who to complain to <yourfault@somewhere.net>

Description More about what it does (maybe more than one line)

License What license is it under?

Imports Rcpp (>= 1.0.10), RcppEigen

LinkingTo Rcpp, RcppEigen

R topics documented:

`pfr-package` *What the package does (short line)*

Description

More about what it does (maybe more than one line)

Details

The DESCRIPTION file: This package was not yet installed at build time.

Index: This package was not yet installed at build time.
~~ An overview of how to use the package, including the most important ~~ ~~ functions ~~

Author(s)

Who wrote it

Maintainer: Who to complain to <yourfault@somewhere.net>

References

~~ Literature or other references for background information ~~

See Also

~~ Optional links to other man pages, e.g. ~~ ~~ <pkg> ~~

Examples

```
~~ simple examples of the most important functions ~~
```

`RcppEigen-Functions` *Set of functions in example RcppEigen package*

Description

These four functions are created when `RcppEigen.package.skeleton()` is invoked to create a skeleton packages.

Usage

```
rcppeigen_hello_world()
rcppeigen_outerproduct(x)
rcppeigen_innerproduct(x)
rcppeigen_bothproducts(x)
```

Arguments

x	a numeric vector

Details

These are example functions which should be largely self-explanatory. Their main benefit is to demonstrate how to write a function using the Eigen C++ classes, and to have to such a function accessible from R.

Value

`rcppeigen_hello_world()` does not return a value, but displays a message to the console.

`rcppeigen_outerproduct()` returns a numeric matrix computed as the outer (vector) product of `x`.

`rcppeigen_innerproduct()` returns a double computer as the inner (vector) product of `x`.

`rcppeigen_bothproducts()` returns a list with both the outer and inner products.

Author(s)

Dirk Eddelbuettel

References

See the documentation for Eigen, and RcppEigen, for more details.

Examples

```
x <- sqrt(1:4)
rcppeigen_innerproduct(x)
rcppeigen_outerproduct(x)
```

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