

Package ‘RcppNLOptExample’

March 9, 2025

Type Package

Title 'Rcpp' Package Illustrating Header-Only Access to 'NLOpt'

Version 0.0.2

Date 2025-03-09

Description An example package which shows use of 'NLOpt' functionality from C++ via 'Rcpp' without requiring linking, and relying just on 'nloptr' thanks to the exporting API added there by Jelmer Ypma. This package is a fully functioning, updated, and expanded version of the initial example by Julien Chiquet at <<https://github.com/jchiquet/RcppArmadilloNLOptExample>> also containing a large earlier pull request of mine.

License GPL (>= 2)

Encoding UTF-8

LinkingTo Rcpp, nloptr (>= 1.2.0)

Imports Rcpp, nloptr (>= 1.2.0)

Depends R (>= 3.0.2)

RoxygenNote 6.0.1

URL <https://github.com/eddelbuettel/rcppnloptexample>,
<https://dirk.eddelbuettel.com/code/rcpp.nloptexample.html>

BugReports <https://github.com/eddelbuettel/rcppnloptexample/issues>

NeedsCompilation yes

Author Dirk Eddelbuettel [aut, cre] (<<https://orcid.org/0000-0001-6419-907X>>)

Maintainer Dirk Eddelbuettel <edd@debian.org>

Repository CRAN

Date/Publication 2025-03-09 15:10:02 UTC

Contents

testConstrainedProblem	2
Index	3

`testConstrainedProblem`*NLopt Call Example from Rcpp*

Description

A simple example for for NLopt integration for Rcpp, using an example from the NLopt tutorial.

Usage

```
testConstrainedProblem(method = "MMA", verbose = FALSE)
```

Arguments

method	A string defaulting to ‘MMA’ (also allowing ‘COBYLA’) which selects the algorithm use.
verbose	A boolean toggle defaulting to ‘false’

Value

A numeric vector with two elements

See Also

https://nlopt.readthedocs.io/en/latest/NLopt_Tutorial/

Examples

```
testConstrainedProblem("MMA", TRUE)
```

Index

`testConstrainedProblem`, 2