

Package ‘RcppThread’

March 17, 2022

Title R-Friendly Threading in C++

Version 2.1.3

Description Provides a C++11-style thread class and thread pool that can safely be interrupted from R. See Nagler (2021) <[doi:10.18637/jss.v097.c01](https://doi.org/10.18637/jss.v097.c01)>.

Depends R (>= 3.3.0)

License MIT + file LICENSE

Encoding UTF-8

SystemRequirements C++11

URL <https://github.com/tnagler/RcppThread>

BugReports <https://github.com/tnagler/RcppThread/issues>

RoxygenNote 7.1.2

Suggests testthat, R.rsp, Rcpp

VignetteBuilder R.rsp

NeedsCompilation yes

Author Thomas Nagler [aut, cre] (<<https://orcid.org/0000-0003-1855-0046>>)

Maintainer Thomas Nagler <mail@tnagler.com>

Repository CRAN

Date/Publication 2022-03-17 11:40:15 UTC

R topics documented:

detectCores	2
LdFlags	2
RcppThread	2

Index	3
--------------	----------

detectCores *Detect the Number of CPU Cores*

Description

Detects the number of (logical) CPU cores.

Usage

detectCores()

LdFlags *Get portable linker flags for libraries building on RcppThread*

Description

To be used in Makevars on Linux and OSX. Returns a string with linker flags for pthread and libatomic, if available.

Usage

LdFlags()

Details

Use as 'PKG_LIBS = \$R_HOME/bin/Rscript -e 'RcppThread::LdFlags()'

RcppThread *R-friendly C++11 threads*

Description

Provides a C++11-style thread class and thread pool that can safely be interrupted from R.

References

Nagler, T. (2021). "R-Friendly Multi-Threading in C++." *Journal of Statistical Software, Code Snippets*, 97(1), 1-18. doi: [10.18637/jss.v097.c01](https://doi.org/10.18637/jss.v097.c01).

Index

`detectCores`, [2](#)

`LdFlags`, [2](#)

`RcppThread`, [2](#)