

Package ‘RcppThread’

June 12, 2026

Title R-Friendly Threading in C++

Version 2.4.0

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

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

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

Suggests testthat, R.rsp, Rcpp

VignetteBuilder R.rsp

Config/roxygen2/version 8.0.0

NeedsCompilation yes

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

Maintainer Thomas Nagler <mail@tnagler.com>

Repository CRAN

Date/Publication 2026-06-11 23:30:13 UTC

Contents

| | |
|-----------------------|----------|
| detectCores | 2 |
| LdFlags | 2 |
| RcppThread | 2 |
| Index | 4 |

| | |
|-------------|---------------------------------------|
| detectCores | <i>Detect the Number of CPU Cores</i> |
|-------------|---------------------------------------|

Description

Detects the number of (logical) CPU cores.

Usage

```
detectCores()
```

| | |
|---------|---|
| LdFlags | <i>Get portable linker flags for libraries building on RcppThread</i> |
|---------|---|

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 | <i>R-friendly C++11 threads</i> |
|------------|---------------------------------|

Description

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

Author(s)

Maintainer: Thomas Nagler <mail@tnagler.com> ([ORCID](#))

Authors:

- Thomas Nagler <mail@tnagler.com> ([ORCID](#))

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.

See Also

Useful links:

- <https://github.com/tnagler/RcppThread>
- Report bugs at <https://github.com/tnagler/RcppThread/issues>

Index

[detectCores](#), [2](#)

[LdFlags](#), [2](#)

[RcppThread](#), [2](#)

[RcppThread-package \(RcppThread\)](#), [2](#)