

# Package ‘RcppThread’

October 18, 2023

**Title** R-Friendly Threading in C++

**Version** 2.1.6

**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)

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**Encoding** UTF-8

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

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

**RoxygenNote** 7.2.3

**Suggests** testthat, R.rsp, Rcpp

**VignetteBuilder** R.rsp

**NeedsCompilation** yes

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**Repository** CRAN

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detectCores                      *Detect the Number of CPU Cores*

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**Description**

Detects the number of (logical) CPU cores.

**Usage**

```
detectCores()
```

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

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**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()'

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RcppThread                              *R-friendly C++11 threads*

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**Description**

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

**Author(s)**

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**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>

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