

Package ‘RcppParallel’

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Type Package

Title Parallel programming tools for Rcpp

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Description High level functions for doing parallel programming with Rcpp.
For example, the `parallelFor` function can be used to convert the work of a standard serial `for` loop into a parallel one and the `parallelReduce` function can be used for accumulating aggregate or other values.

Suggests Rcpp, testthat

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License GPL-2

Collate 'options.R'

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R topics documented:

RcppParallel-package	2
setThreadOptions	2
Index	4

RcppParallel-package *Parallel programming tools for Rcpp*

Description

High level functions for doing parallel programming with Rcpp. For example, the `parallelFor` function can be used to convert the work of a standard serial "for" loop into a parallel one and the `parallelReduce` function can be used for accumulating aggregate or other values.

Author(s)

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setThreadOptions *Thread options for RcppParallel*

Description

Set thread options (number of threads to use for task scheduling and stack size per-thread) for RcppParallel.

Usage

```
setThreadOptions(numThreads = "auto",
                 stackSize = "auto")
defaultNumThreads()
```

Arguments

<code>numThreads</code>	Number of threads to use for task scheduling (call <code>defaultNumThreads</code> to determine the the default value used for "auto").
<code>stackSize</code>	Stack size (in bytes) to use for worker threads. The default used for "auto" is 2MB on 32-bit systems and 4MB on 64-bit systems (note that this parameter has no effect on Windows).

Details

RcppParallel is automatically initialized with the default number of threads and thread stack size when it loads. You can call `setThreadOptions` at any time to change the defaults.

Value

The `defaultNumThreads` returns the default number of threads that are used by RcppParallel if another value isn't specified using `setThreadOptions`.

Examples

```
## Not run:  
setThreadOptions(numThreads = 4)  
  
defaultNumThreads()  
  
## End(Not run)
```

Index

*Topic **package**

RcppParallel-package, [2](#)

defaultNumThreads (setThreadOptions), [2](#)

RcppParallel (RcppParallel-package), [2](#)

RcppParallel-package, [2](#)

setThreadOptions, [2](#)