

Package ‘doMC’

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Type Package

Title Foreach parallel adaptor for the multicore package

Version 1.2.3

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Description Provides a parallel backend for the `%dopar%` function using Simon Urbanek’s multicore package.

Depends R (>= 2.5.0), foreach(>= 1.2.0), iterators(>= 1.0.0), multicore(>= 0.1-2), utils

Enhances compiler, RUnit

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doMC-package

*The doMC Package***Description**

The doMC package provides a parallel backend for the `foreach/%dopar%` function using Simon Urbanek's multicore package.

Details

Further information is available in the following help topics:

`registerDoMC` `register doMC` to be used by `foreach/%dopar%`

To see a tutorial introduction to the doMC package, use `vignette("gettingstartedMC")`. To see a tutorial introduction to the `foreach` package, use `vignette("foreach")`.

To see a demo of doMC computing the sinc function, use `demo(sincMC)`.

Some examples (in addition to those in the help pages) are included in the "examples" directory of the doMC package. To list the files in the examples directory, use `list.files(system.file("examples", package="doMC"))`. To run the bootstrap example, use `source(system.file("examples", "bootMC.R", package="doMC"))`. This is a simple benchmark, executing both sequentially and in parallel. There are many more examples that come with the `foreach` package, which will work with the doMC package if it is registered as the parallel backend.

For a complete list of functions with individual help pages, use `library(help="doMC")`.

registerDoMC

*registerDoMC***Description**

The `registerDoMC` function is used to register the multicore parallel backend with the `foreach` package.

Usage

```
registerDoMC(cores=NULL, ...)
```

Arguments

<code>cores</code>	The number of cores to use for parallel execution. If not specified, the number of cores is set to the value of <code>options("cores")</code> , if specified, or to the number of cores detected by the multicore package.
<code>...</code>	Package options. Currently, only the <code>nocompile</code> option is supported. If <code>nocompile</code> is set to <code>TRUE</code> , compiler support is disabled.

Details

The multicore package by Simon Urbanek provides functions for parallel execution of R code on machines with multiple cores or processors, using the system fork call to spawn copies of the current process. The multicore package, and therefore *registerDoMC*, should not be used in a GUI environment, because multiple processes then share the same GUI.

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