Package: rcpptimer (via r-universe)

October 28, 2026

Type Package

Title 'Rcpp' Tic-Toc Timer with 'OpenMP' Support

Version 1.2.1

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Description Provides 'Rcpp' bindings for 'cpptimer', a simple tic-toc timer class for benchmarking 'C++' code <https://github.com/BerriJ/cpptimer>. It's not just simple, it's blazing fast! This sleek tic-toc timer class supports overlapping timers as well as 'OpenMP' parallelism <https://www.openmp.org/>. It boasts a nanosecond-level time resolution. We did not find any overhead of the timer itself at this resolution. Results (with summary statistics) are automatically passed back to 'R' as a data frame.

URL https://rcpptimer.berrisch.biz, https://github.com/BerriJ/rcpptimer

BugReports https://github.com/BerriJ/rcpptimer/issues

License GPL (>= 3)

Encoding UTF-8

Imports Rcpp

LinkingTo Rcpp

RoxygenNote 7.3.2

Suggests testthat (>= 3.0.0), knitr, rmarkdown

Config/testthat/edition 3

VignetteBuilder knitr

Language en-US

NeedsCompilation yes

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Repository https://cran.r-universe.dev

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`fibonacci` *Simple rcpptimer example*

Description

Time the computation of Fibonacci numbers

Usage

```
fibonacci(n)
```

Arguments

`n`	vector giving integers for which to compute the Fibonacci sum

Details

The function being timed is the following:

```
int fib(int n) { return ((n <= 1) ? n : fib(n - 1) + fib(n - 2)); }
```

Runtime for computations less than `n = 15` is nearly unmeasurable.

Value

vector of integers giving the Fibonacci sum for each element in `n`

Examples

```
fibonacci(n = rep(20:25, 10))
# this function creates a global environment variable "times"
times
```

fibonacci_omp *Simple rcpptimer example using OpenMP*

Description

Time the multithreaded computation of Fibonacci numbers

Usage

```
fibonacci_omp(n)
```

Arguments

n	vector giving integers for which to compute the Fibonacci sum

Details

The function being timed is the following:

```
int fib(int n) { return ((n <= 1) ? n : fib(n - 1) + fib(n - 2)); }
```

Runtime for computations less than `n = 15` is nearly unmeasurable.

Value

vector of integers giving the Fibonacci sum for each element in `n`

Examples

```
fibonacci_omp(n = rep(20:25, 10))
# this function creates a global environment variable "times"
times
```

print.rcpptimer *Print method for rcpptimer output*

Description

Prints the times object and scales the timings if appropriate. If all timings are smaller than 1 microsecond, the timings are printed in nanoseconds. If the smallest timing is higher than a Millisecond / Seconds / Minutes / Hours, the timings are printed in the unit of that threshold. This behavior can be disabled by setting scale = FALSE.

Usage

```
## S3 method for class 'rcpptimer'
print(x, scale = TRUE, ...)
```

Arguments

x	Object of class rcpptimer
scale	Scale the timings and statistics to a more human readable format
...	further arguments are ignored

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