Package 'benchmarkmeData'

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Type Package

Title Data Set for the 'benchmarkme' Package

Version 1.0.4

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Description Crowd sourced benchmarks from running the 'benchmarkme' package.

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URL https://github.com/csgillespie/benchmarkme-data

BugReports https://github.com/csgillespie/benchmarkme-data/issues

Depends R (>= 3.5.0)

Imports dplyr, graphics, tibble, utils

Suggests benchmarkme, covr, DT, testthat

Encoding UTF-8

LazyData TRUE

RoxygenNote 7.1.0

NeedsCompilation no

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Repository CRAN

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R topics documented:

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benchmarkmeData-package *The benchmarkmeData package*

Description

This package contains the results from users running the **benchmarkme** package. The key function is `plot_past()`.

Author(s)

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See Also

https://github.com/csgillespie/benchmarkme-data

Examples

```
plot_past("prog")
```

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get_datatable_past *Interactive table of results*

Description

A summary of past results

Usage

```
get_datatable_past(test_group, blas_optimize = NULL, cores = 0)
```

Arguments

`test_group`	One of "prog", "matrix_fun", "matrix_cal", "read5", "read50", "read200", "write5", "write50" or "write200". Default value `prog`.
`blas_optimize`	Default `NULL`. The default behaviour is to plot all results. To plot only the BLAS optimized results, set to `TRUE`, otherwise `FALSE`.
`cores`	Default `0`, i.e. no parallel.

Examples

```
## Need the DT package
## View all results for prog test
get_datatable_past("prog")
```

is_blas_optimize *BLAS optimize*

Description

Try to determine parallel BLAS, which implies non-standard R! Compare user with elapsed time. If user » elapsed, then parallel BLAS

Usage

```
is_blas_optimize(results)
```

Arguments

results	The output from a benchmark_* call.

make_data_set *Functions for manipulating uploaded results*

Description

Functions used for moving and creating the past_results_v2 data set from uploaded data. The move_files function is used to moved files from the server to another location, whilst removing any empty data sets.

Usage

```
make_data_set(from)

move_files(from, to)
```

Arguments

from	A directory containing the uploaded results.
to	Destination directory

Note

One of the unit tests uploads an empty results file. Files where the results are NULL are moved to a sub-directory (called) empty in the to directory. If the empty directory doesn't exist, it is created.

Currently these functions are specific to my set-up.

past_results *Benchmarking results*

Description

A summary of past benchmarks.

Format

A data frame

past_results_v2 *Benchmarking results*

Description

A summary of past benchmarks.

Format

A data frame

plot_past *Scatter plot of past benchmarks*

Description

Plot the previous benchmarks. This function creates two figures.

- Figure 1: Total benchmark time over all benchmarks (in seconds) on the y-axis.
- Figure 2: Relative time (compared to the smallest benchmark).

The data set used is `data(past_results_v2)`.

Usage

```
plot_past(test_group, blas_optimize = NULL, cores = 0, log = "y")
```

Arguments

`test_group`	One of "prog", "matrix_fun", "matrix_cal", "read5", "read50", "read200", "write5", "write50" or "write200". Default value `prog`.
`blas_optimize`	Default `NULL`. The default behaviour is to plot all results. To plot only the BLAS optimized results, set to `TRUE`, otherwise `FALSE`.
`cores`	Default `0`, i.e. no parallel.
`log`	By default the y axis is plotted on the log scale. To change, set the the argument equal to the empty parameter string, `""`.

Examples

```
## Plot all past results for the `prog` benchmark
plot_past("prog", blas_optimize = NULL)
```

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summarise_results *Selecting results*

Description

Selects and aggregates over the past_results_v2 data set or the results input data set..

Usage

```
summarise_results(res)

select_results(test_group, results = NULL, blas_optimize = NULL, cores = 0)
```

Arguments

res	A list containing benchmark results and system information.
test_group	One of "prog", "matrix_fun", "matrix_cal", "read5", "read50", "read200", "write5", "write50" or "write200". Default value prog.
results	Default NULL. If NULL the past_results_v2 data set is used. Otherwise, the input data set.
blas_optimize	Default NULL. The default behaviour is to plot all results. To plot only the BLAS optimized results, set to TRUE, otherwise FALSE.
cores	Default 0, i.e. no parallel.

Value

A data frame

Examples

```
select_results("prog", blas_optimize = NULL)
```

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