Package ‘benchmarkmeData’

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Type Package
Title Data Set for the 'benchmarkme' Package
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Description Crowd sourced benchmarks from running the 'benchmarkme' package.
License GPL-2 | GPL-3
URL https://github.com/csgillespie/benchmarkme-data
BugReports https://github.com/csgillespie/benchmarkme-data/issues
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get_datatable_past

Description

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

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See Also

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

Examples

plot_past("prog")

g.get_datatable_past Interactive table of results

Description

A summary of past results

Usage

g.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
g.get_datatable_past("prog")
is_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.

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make_data_set

**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.
### Benchmarking results

**Description**

A summary of past benchmarks.

**Format**

A data frame

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### past_results_v2  

**Benchmarking results**

**Description**

A summary of past benchmarks.

**Format**

A data frame

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### 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**

```r
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 argument equal to the empty parameter string, "".
Examples

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

summarise_results

### Selecting results

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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