

Package ‘pipetime’

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Type Package

Title Tools to Time Pipe Operations

Version 0.0.1

Description Enable users to measure and record the execution time of pipe operations (using `|>`) with optional logging to dataframes and output to the console.

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Encoding UTF-8

Suggests testthat (>= 3.0.0), crayon, dplyr, ggplot2, stringr, tictoc, knitr, rmarkdown

Config/testthat/edition 3

RoxygenNote 7.3.3

URL <https://cygei.github.io/pipetime/>;
<https://github.com/CyGei/pipetime>

BugReports <https://github.com/CyGei/pipetime/issues>

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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Contents

get_log	2
rm_log	2
time_pipe	3

Index	5
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get_log	<i>Retrieve a timing log (or all logs)</i>
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Description

Return a stored timing log from `.pipetime_env`. If `log = NULL`, return all logs as a named list.

Usage

```
get_log(log = NULL)
```

Arguments

log	Character string or NULL. Name of the log to retrieve. If NULL, all logs are returned.
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Value

Either:

- A data frame with columns:
 - `timestamp (POSIXct)`: Pipeline start time
 - `label (character)`: Operation label
 - `duration (numeric)`: Elapsed time since pipeline start
 - `unit (character)`: Time unit used
- Or, if `log = NULL`, a named list of such data frames.

See Also

[rm_log\(\)](#)

rm_log	<i>Remove a timing log (or all logs)</i>
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Description

Delete a timing log from `.pipetime_env`. If `log = NULL`, all logs are removed, but only when `force = TRUE`.

Usage

```
rm_log(log = NULL, force = FALSE)
```

Arguments

log	Character string or NULL. Name of the log to remove. If NULL, all logs are targeted.
force	Logical. To remove all logs, force must be TRUE. Default: FALSE.

Value

Invisibly, TRUE.

See Also

[get_log\(\)](#)

time_pipe

Measure execution time in a pipeline

Description

Records the runtime of a pipeline (`|>`) from its start to the point where `time_pipe()` is called. Prints results to the console and/or logs them in `.pipetime_env`. Defaults can be set via `options(pipetime.*)`.

Usage

```
time_pipe(
  .data,
  label = NULL,
  log = getOption("pipetime.log", NULL),
  console = getOption("pipetime.console", TRUE),
  unit = getOption("pipetime.unit", "secs")
)
```

Arguments

.data	Input object passed through the pipeline.
label	Character string. Operation name. Defaults to the expression if NULL.
log	Character string or NULL. Name of a log data frame in <code>.pipetime_env</code> . Default: NULL.
console	Logical. Print timing to console? Default: TRUE.
unit	Character string. Time unit for <code>base::difftime()</code> . One of "secs", "mins", "hours", "days", "weeks". Default: "secs".

Details

time_pipe() measures elapsed time from pipeline start to the call. If log is set, results are appended to a data frame in .pipetime_env with columns:

- timestamp: Pipeline start time (POSIXct)
- label: Operation label
- duration: Elapsed time since pipeline start (numeric)
- unit: Time unit used

Stored logs can be retrieved with [get_log\(\)](#).

Value

.data, unchanged. Timing information is printed and/or stored separately.

Examples

```
library(dplyr)
data.frame(x = 1:3) |>
mutate(y = {Sys.sleep(0.5); x*2 }) |>
time_pipe("calc 1") |>
mutate(z = {Sys.sleep(0.5); x/2 }) |>
time_pipe("total pipeline")
```

Index

`base::difftime()`, 3

`get_log`, 2

`get_log()`, 3, 4

`rm_log`, 2

`rm_log()`, 2

`time_pipe`, 3