Package 'profr'

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Title An Alternative Display for Profiling Information

Version 0.3.3

Description An alternative data structure and visual rendering for the profiling information generated by Rprof.

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URL https://github.com/hadley/profr

BugReports https://github.com/hadley/profr/issues

Imports plyr, stringr

Suggests ggplot2

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

NeedsCompilation no

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Repository CRAN

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ggplot.profr *Visualise profiling data with ggplot2. Visualise profiling data stored in a* profr *data.frame.*

Description

This will plot the call tree of the specified stop watch object. If you only want a small part, you will need to subset the object

Usage

```
ggplot.profr(data, ..., minlabel = 0.1, angle = 0)
```

Arguments

data	profile output to plot
...	other arguments passed on to ggplot
minlabel	minimum percent of time for function to get a label
angle	function label angle

See Also

plot.profr

Examples

```
if (require("ggplot2")) {
  ggplot(nesting_prof)
  ggplot(reshape_prof)
}
```

parse_rprof *Parse Rprof output.*

Description

Parses the output of Rprof into an alternative format described in profr. This produces a flat data frame, which is somewhat easier to summarise and visualise.

Usage

```
parse_rprof(path, interval = 0.02)
```

Arguments

path	path to Rprof output
interval	real-time interval between samples (in seconds)

Value

data.frame of class profr

See Also

profr for profiling and parsing

Examples

```
nesting_ex <- system.file("samples", "nesting.rprof", package="profr")
nesting <- parse_rprof(nesting_ex)

reshape_ex <- system.file("samples", "reshape.rprof", package="profr")
diamonds <- parse_rprof(reshape_ex)
```

---

plot.profr *Visualise profiling data with base graphics. Visualise profiling data stored in a* profr *data.frame.*

Description

If you only want a small part of the total call tree, you will need to subset the object as demonstrated by the example.

Usage

```
## S3 method for class 'profr'
plot(x, ..., minlabel = 0.1, angle = 0)
```

Arguments

x	profile output to plot
...	other arguments passed on to plot.default
minlabel	minimum percent of time for function to get a label
angle	function label angle

See Also

ggplot.profr

Examples

```
plot(nesting_prof)
plot(reshape_prof)
```

`profr` *Profile the performance of a function call.*

Description

This is a wrapper around `Rprof` that provides results in an alternative data structure, a data.frame. The columns of the data.frame are:

Usage

```
profr(expr, interval = 0.02, quiet = TRUE)
```

Arguments

`expr`	expression to profile
`interval`	interval between samples (in seconds)
`quiet`	should output be discarded?

Details

f name of function

level level in call stack

time total time (seconds) spent in function

start time at which control entered function

end time at which control exited function

leaf `TRUE` if the function is a terminal node in the call tree, i.e. didn't call any other functions

source guess at the package that the function came from

Value

`data.frame` of class `profr`

See Also

`parse_rprof` to parse standalone `Rprof` file, `plot.profr` and `ggplot.profr` to visualise the profiling data

Examples

```
## Not run:
glm_ex <- profr({Sys.sleep(1); example(glm)}, 0.01)
head(glm_ex)
summary(glm_ex)
plot(glm_ex)

## End(Not run)
```

`sample-data` *Sample profiling datasets*

Description

These two datasets illustrate the results of running `parse_rprof` on the sample `Rprof` output stored in the samples directory. The output was generated by the code in `samples/generate.r`.

Usage

```
nesting_prof

reshape_prof
```

Format

a data frame

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