

Package ‘sprof’

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Type Package

Title Profiling, timing and optimization utilitites

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Description Support utilitites

License GPL-3

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| sprof-package | <i>sprof: R profiling</i> |
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Description

Profiling, timing and optimization utilitites

Details

| | |
|----------|------------|
| Package: | sprof |
| Type: | Package |
| Version: | 0.0-1 |
| Date: | 2013-05-26 |
| License: | GPL-2 |

readProf reads a profile file and returns a composite structure.

Author(s)

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See Also

[proftools.](#)
[profr.](#)

 readProf

Read Rprof Output files and Stack Logs

Description

Read a log of stack entries, such as the output of the [Rprof](#) function, and generate a more accessible representation.

Usage

```
readProf(filename = "Rprof.out", chunksize = 5000)
```

Arguments

| | |
|-----------|---|
| filename | Name of a file produced by <code>Rprof()</code> . |
| chunksize | Number of lines to read at a time. |

Details

This function reads a log file of stacks, one stack snapshot per line, stack entries separated by space. As profiling output file could be very large, it is read in blocks of `chunksize` lines. Increasing `chunksize` will make the function run faster if sufficient memory is available.

Value

A list with components

| | |
|------------|--|
| firstline | A verbatim copy of the first line of the input file. Typically this contains timing or formatting information. |
| nodes | A vector of node names. This may include stray entries from interspersed lines. |
| stacks | A vector of unique stacks found in input, stored as verbatim copies. |
| stacksrenc | A list of unique stacks in top down order (top first), encoded as vectors or references to <code>stacks</code> . |
| data | A vector encoding the data file as referenes to <code>stacks</code> . |
| freq | A frequency table summarizing data. |

Author(s)

Gl"unther Sawitzki

See Also

[summaryRprof](#)

The chapter on “Tidying and profiling R code” in “Writing R Extensions” (see the ‘doc/manual’ subdirectory of the R source tree).

[Rprof](#) is a sampling profiler.

[tracemem](#) traces copying of an object via the C function duplicate.

[Rprofmem](#) is a non-sampling memory-use profiler.

<http://developer.r-project.org/memory-profiling.html>

Examples

```
## Not run:
## Rprof() is not available on all platforms
profininterval <- 0.001
simruns <- 100

n <- 10000
x <- runif(n)
y0 <- 2+ 3 * x

sinknull <- textConnection(NULL, "w"); sink(sinknull)
Rprof(tmp <- tempfile(), interval = profinterval)
for (i in 1:simruns) {y <- y0 + rnorm(n); xxx<- summary(lm(y~x))}
Rprof()

Rprof_out <- readProf(tmp)

unlink(tmp)
sink(); close(sinknull)

## End(Not run)
```

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