sprof reference

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Type Package

Title Profiling, timing and optimization utilitites
Version 0.0-6
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Description Support utilities for profiling and dynamic code analysis.
License GPL-2 GPL-3
Suggests wordcloud, timeit, RColorBrewer
URL http://sintro.r-forge.r-project.org
ByteCompile FALSE
KeepSource TRUE
BuildVignettes FALSE
R topics documented:
sprof-package 2 adjacency 3 barplot_s 4 edgedf 6 list.as.matrix 7 nodepackage 8 nodescloud 9 nodesprofile 10 nodesrunlength 11 plot_sprof 12 plot_nodes 13 plot_profiles 15
plot_stacks

2 sprof-package

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ndRprof . ndex	 																														
ndex															•	•		•	•		•				•	•	•	•			20
e					•																										
																															22
-																															
_																															
																															32
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Description

Profiling, timing and optimisation utilities

Details

Package: sprof
Type: Package
Version: 0.0-6
Date: 2013-08-15
License: GPL-2 | GPL-3

readRprof() reads a profile file from Rprof() or other profilers and returns a composite structure of class sprof. The basic components of sprof are (conceptually) four data frames

info general information and summaries
nodes node specific information
stacks node specific information. Stacks are random snapshots from
the program execution, possibly including side information such as traces
of the memory management.

profiles collected records of a profile, encoded as references to stacks

To create a profile on the fly, use sampleRprof.

To import profile information written by Rprof or other profilers, use readRprof.

For sprof, the usual access functions are supported.

adjacency 3

Note

Version 0.0-6 is a clean-up version. Recommendations/requests for the interface definition are requested at this point.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

Examples

```
## Not run:
data(sprof01lm)
str(sprof01lm)
plot(sprof01lm)
## End(Not run)
```

adjacency

sprof to adjacency matix

Description

convert node information from a sprof structure to adjacancy matrix.

Usage

```
adjacency(sprof,\,keep.names = TRUE,\,rmzero = TRUE,\,\,no.name = "<nn>")
```

Arguments

sprof a sprof structure.

keep.names boolean. Copy node names as row- and column names.

rmzero boolean. Remove nodes with no edges.

no.name If not null: replacement for empy strings as name.

Value

a correspondency matrix

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

References

See the vignette of package sprof.

```
\frac{\mathrm{data}(\mathrm{sprof}01\mathrm{lm})}{\mathrm{adjacency}(\mathrm{sprof}01\mathrm{lm})}
```

barplot_s

$barplot_s$	Sorted Bar Plots	

Description

Creates a sorted bar plot with vertical or horizontal bars.

Usage

```
barplot_s(height, sort_by, decreasing = TRUE, lowtrim, hightrim, trimlegend = TRUE, col, coli, colfun, main, ...)
```

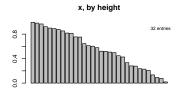
Arguments

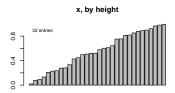
height	either a vector or matrix of values describing the bars which make up the plot. See barplot.
sort_by	a variable to sort by. Defaults to height.
decreasing	boolean. Sorting direction.
lowtrim	A optional lower trim value. Observations with $\operatorname{sort_by}$ values up to lowtrim are discarded.
hightrim	A optional upper trim value. Observations with $\operatorname{sort_by}$ values from lowtrim are discarded.
trimlegend	Boolean. Show a legend about trimmed values.
trimlegend col	Boolean. Show a legend about trimmed values. a vector of colors for the bars or bar components. By default, grey is used if height is a vector, and a gamma-corrected grey palette if height is a matrix.
<u> </u>	a vector of colors for the bars or bar components. By default, grey is used if
col	a vector of colors for the bars or bar components. By default, grey is used if height is a vector, and a gamma-corrected grey palette if height is a matrix.
coli	a vector of colors for the bars or bar components. By default, grey is used if height is a vector, and a gamma-corrected grey palette if height is a matrix. An index into the col table, based on original sorting.

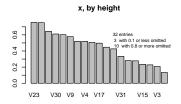
Details

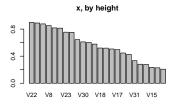
To come. Plots are from this collection:

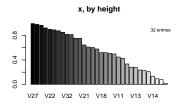
barplot_s 5

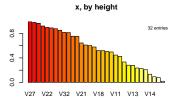












Value

Invisible: A data frame with components

x height

perm the permutation applied coli the colour index applied

col optional: the colours selected

Note

Part of this could go to the R base function barplot.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

See Also

barplot

Examples

 $x < \text{-} \, \operatorname{runif}(100)$

 $barplot_s(x)$

x <- rnorm(100)

6 edgedf

```
barplot\_s(x, colfun=heat.colors, lowtrim=-1) \\ rm(x)
```

edgedf

Expand adjacency information to an edge table

Description

Expand adjacency information from an adjacency matrix or a sprof data structure to an edge table

Usage

```
edgedf(data, counts = TRUE, na.rm = TRUE, no.name="<nn>")
```

Arguments

data an adjacency matrix or a sprof data structure.

counts include a column of counts

na.rm remove lines with a count NA.

no.name If not null: replacement for empty strings as name.

Details

The adjacency matrix is flattened. Lines with a count zero are eliminated.

Value

A data frame.

from Name of from node. to Name of to node.

count optional. Frequencies of edges.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

```
\frac{\mathrm{data}(\mathrm{sprof}01\mathrm{lm})}{\mathrm{edgedf}(\mathrm{sprof}01\mathrm{lm})}
```

list.as.matrix 7

list.as.matrix

Convert list to matrix

Description

Convert list to matrix. List entries go to matrix columns, filled for equal length.

Usage

```
list.as.matrix(x, byrow=FALSE, filler = NA)
```

Arguments

x a list of numeric vectors.

byrow boolean. Arrange list entries as rows. Default is to use columns.

filler a value to be used as a filler

Value

A matrix with the values from x, filled to matrix shape.

To do

Arguments should be as as.matrix.

A corresponding list.as.data.frame should be added for mixed types.

Name synchronisation/preservations should be added.

Note

This could go to as.matrix().

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

See Also

as. matrix.

```
\begin{array}{l} x<-\operatorname{list}(x1{=}c(1{,}2{,}3){,}x2{=}3,\;x3{=}4{:}8)\\ \operatorname{list.as.matrix}(x)\\ \operatorname{list.as.matrix}(x,\operatorname{filler}{=}0) \end{array}
```

8 nodepackage

nodepackage

Find a package that may contain a node

Description

getAnywhere() is used to look up x, and the package or namespace information is used to give a source package.

Usage

```
nodepackage(x)
```

Arguments

Х

a character string or name, or a vector.

Details

There is no indication whether the information is from a namespace or from a package information.

No indication is given if multiple hits are encountered.

The information is based on the run time environment of this function. This may be different from the environment the object is taken from.

See the help information for getAnywhere() for more warnings.

Value

a character string or a vector of strings with the package names.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

See Also

```
getAnywhere()
```

```
nodepackage("getAnywhere")
```

nodescloud 9

nodescloud	Nodescloud of nodes from profile data	

Description

Show the nodes from a profile, with class encoded as colour and frequency encoded as size.

Usage

```
nodescloud(sprof, min.freq = 3, icol, col)
```

Arguments

sprof A data structure as returned by readRprof.
min.freq Minimum frequency of a node to be included.

icol An index vector to colour palette, encoding node class. Defaults to sprof\$nodes\$icol.

col A colour palette.

Details

Note: these figures may be outdated. Please run the examples.

Plots are from this collection:



Value

Used for the side effect of showing the plots.

10 nodesprofile

Note

See the vignette of package sprof.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

Examples

```
## Not run:
data(sprof01lm)
nodescloud(sprof01lm)
## End(Not run)
```

nodesprofile

Run length matrix

Description

Extracts run length information from a sprof data structure with profiling information.

Usage

```
nodesprofile(sprof)
```

Arguments

sprof

a sprof data structure with profiling information.

Details

Run length counts by node, level and run length.

Value

```
counts [node, level, run length].
```

Note

This expands a sparse matrix to full. Avoid to use it.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

```
\begin{array}{l} {\rm data(sprof01lm)} \\ {\rm str(nodesprofile(sprof01lm)\ )} \end{array}
```

nodesrunlength 11

nodesrunlength

Marginal information for run length from profile

Description

Run length count, by node and run length, from profile.

Usage

```
nodesrunlength(sprof, clean=TRUE)
```

Arguments

sprof a sprof data structure with profiling information.

clean boolean.

Details

If clean=TRUE, zero results are removed and the nodes are sorted by average time.

If clean=TRUE, zero results and sorting are preserved. Trailing nodes with zero count may have been lost in the process, and are added.

Value

A matrix $\operatorname{count}[\operatorname{node}, \operatorname{run} \operatorname{length}]$ with a column giving the number of runs by run length and three additional columns

```
nr_runs sum of counts over all run lengths.
```

total_time sum of count*run length
avg time total time / count

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

```
data(sprof01lm)
nodesrunlength(sprof01lm)
```

plot.sprof

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plot for profiles

Description

plot a plot for the output of class scode.

Usage

```
## S3 method for class 'sprof' plot(x, ...)
```

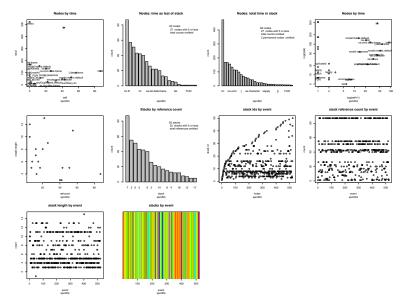
Arguments

x A data structure as returned by readRprof.

... further arguments passed to or from other methods.

Details

These displays may be outdated. Please run the examples. Plots are from this collection:



Value

subject to change

Note

See the vignette for in-context explanations.

Displays of the graph structure are given in the vignette.

The plot.sprof method for sprof objects concatenates three plot functions. Using the plot functions one by one allows better control and will be preferred. shownodes may be a sufficient summary.

plot_nodes 13

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

References

```
http://sintro.r-forge.r-project.org/\\
```

See Also

```
shownodes summaryRprof plot nodes plot stacks plot profiles
```

Examples

```
\begin{aligned} & data(sprof01lm) \\ & oldpar <- par(mfrow=c(3,4)) \\ & plot.sprof(sprof01lm) \\ & par(oldpar) \end{aligned}
```

plot nodes

Plot profiling information on node level.

Description

Various plots of a profile.

Usage

```
\begin{array}{l} plot\_nodes(x,\,which=c(1L,\,2L,\,3L,\,4L),\,col=NULL,\\ ask=prod(par("mfcol"))< length(which)\,\&\&\,\,dev.interactive(),\\ src=NULL,\,mincount=5,\,horiz=FALSE,\,\ldots) \end{array}
```

Arguments

X	preferably a sprof object.	Other data structures may be extended

which Selector of plots to show.

col Colour table

ask boolean. Ask for a new page?

src String to be used as source identifier.

minimum total frequency count for node to be shown in barcharts.

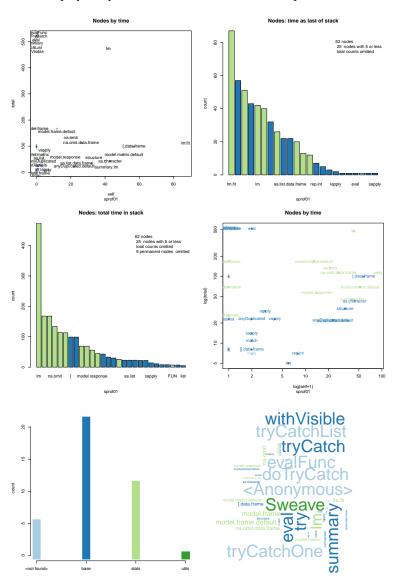
horiz draw horizontal bar plots.

... passed.

plot_nodes

Details

These displays may be outdated. Please run the examples. Plots are from this collection:



Value

To come.

Note

See the vignette of package sprof.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

plot_profiles 15

References

See the vignette of package sprof.

See Also

```
plot.sprof
```

Examples

```
data(sprof01lm)
oldpar <- par(mfrow=c(2,2))
plot_nodes(sprof01lm)
par(oldpar)
```

 $plot_profiles$

Plot profiling information on profile level.

Description

Various plots of a profile.

Usage

```
\begin{array}{l} plot\_profiles(x,\,which=c(1L,\,2L,\,3L,\,4L),\,col,\\ ask=prod(par("mfcol"))< length(which)\,\,\&\&\,\,dev.interactive(),\\ src=NULL,\,...) \end{array}
```

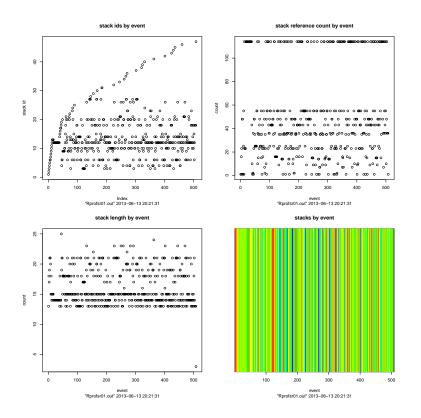
Arguments

X	preferably a sprof object. Other data structures may be extended
which	Selector of plots to show.
col	Colour table
ask	boolean. Ask for a new page?
src	String to be used as source identifier.
	nassed.

Details

Plots are from this collection:

plot_profiles



Note

See the vignette of package sprof.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

References

See the vignette of package sprof.

See Also

plot.sprof.

```
\begin{array}{l} data(sprof01lm) \\ oldpar <- par(mfrow=c(2,2)) \\ plot\_profiles(sprof01lm) \\ par(oldpar) \end{array}
```

plot_stacks 17

plot	stacks
prot	Stacks

Plot profiling information on stack level.

Description

Various plots of a profile.

Usage

```
\begin{array}{l} plot\_stacks(x,\,which=c(1L,\,2L),\\ ask=prod(par("mfcol")) < length(which) \,\&\&\,\,dev.interactive(),\\ src=NULL,\,mincount=5,\,horiz=FALSE,\,\ldots) \end{array}
```

Arguments

preferably a sprof object. Other data structures may be extended
Selector of plots to show.
boolean. Ask for a new page?
String to be used as source identifier.
minimum total frequency count for stack to be shown in barcharts.
draw horizontal bar plots.

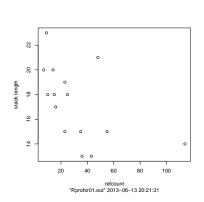
Details

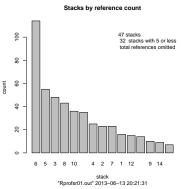
...

Note: these figures may be outdated. Please run the examples.

passed.

Plots are from this collection:





Value

To come.

Note

See the vignette of package sprof.

print.sprof

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

References

See the vignette of package sprof.

See Also

```
plot.sprof.
```

Examples

```
\begin{array}{l} data(sprof01lm) \\ oldpar <- \ par(mfrow=c(2,2)) \\ plot\_stacks(sprof01lm) \\ par(oldpar) \end{array}
```

print.sprof

print for profiles

Description

Print a print for the output of class scode.

Usage

```
## S3 method for class 'sprof' print(x, ...)
```

Arguments

x A data structure as returned by readRprof.

... further arguments passed to or from other methods.

Value

None.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

References

```
http://sintro.r-forge.r-project.org/\\
```

See Also

```
summaryRprof plot.sprof
```

print_profiles 19

Examples

```
\frac{\mathrm{data}(\mathrm{sprof}01\mathrm{lm})}{\mathrm{print}(\mathrm{sprof}01\mathrm{lm})}
```

print_profiles

Print profile information

Description

Print profile information.

Usage

```
print_profiles(x)
```

Arguments

х

a sprof data structure.

Value

none

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

Examples

```
\frac{\mathrm{data}(\mathrm{sprof01lm})}{\mathrm{print\_profiles}(\mathrm{sprof01lm})}
```

 $profiles_matrix$

Extract a node incidence matrix from profile information.

Description

Extract a node incidence matrix from profile information.

Usage

```
profiles_matrix(x)
```

Arguments

X

an sprof data structure.

Value

```
an incidence matrix, NA filled.
```

20 readRprof

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

Examples

```
data(sprof01lm)
smat <-profiles_matrix(sprof01lm)
image(smat)
```

readRprof

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

```
\label{eq:readRprof} \begin{split} & \operatorname{readRprof}(\operatorname{filename} = "Rprof.out", \, \operatorname{chunksize} = 5000, \\ & \operatorname{interval} = 0.02, \\ & \operatorname{head} = \operatorname{c}("\operatorname{auto"}, \, "\operatorname{none"}, \, "Rprof.eem"), \\ & \operatorname{id} = \operatorname{NULL}) \end{split}
```

Arguments

filename Name of a file produced by Rprof(). chunksize Number of lines to read at a time.

interval Real number: time interval between samples, in s. Defaults to 0.02s for consis-

tency with Rprof, but shorter times should be used.

head c("auto", "none", "Rprofmem") to interpret control information as provided

by Rprof or Rprofmem. See details.

id An optional identification string. Defaults to filename and date.

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.

(This data structure is subject to change.)

The input format is controlled by the head argument. Format "auto" tries to detect control lines as interspersed by Rprof. These lines are not included in the output.

[&]quot;none" ignores all control information and includes these lines as strange stacks.

[&]quot;Rprofmem" isolates headers as provided by Rprofmem. "Rprofmem" new page entries are encoded as malloc requests with length 0.

readRprof 21

Value

This data structure is subject to change.

Temporarily: A list with components

info Summary information.

nodes A vector of node names. This may include stray entries from interspersed lines.

stacks Stacks, represented as reference list to nodes, and stack frequencies.

profiles Recorded data, as reference to stacks, and possibly additional data per reference.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>, based on the code of summaryRprof

References

```
http://sintro.r-forge.r-project.org/
```

See Also

```
summaryRprof
summaryRprof
flatProfile in library(proftools).
parse_rprof in library(profr).
```

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

```
## Not run:
## Rprof() is not available on all platforms
profinterval <- 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 <- readRprof(tmp)

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

22 rrle

```
str(Rprof_out)
## End(Not run)
```

rkindex

Index, based on rank.

Description

Convert x to an index in 1... maxindex

Usage

```
rkindex(x, maxindex = length(x), pwr = 1, ties.method = "random")
```

Arguments

x A vector of data to covert.

maxindex Maximum for result

pwr See details. ties.method passed to rank.

Details

x is transformed to a rank scale, using ties.method. It is then rescaled to [0,1], and (optionally) a power transformation is applied. In visualisation terms, this is a gamma correction. The result is rescaled to $1 \dots$ maxindex.

Value

A vector of rescaled values.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

 ${\rm rrle}$

Recursive run length encoding.

Description

Encode a matrix as run-length, top down. Encoding respects previous runs, e.g line 2 encodes runs in each run of line 1.

Usage

```
rrle(x, collapseNA = FALSE)
```

rrleb 23

Arguments

```
x a matrix.collapseNA boolean. Collapse runs of NA.
```

Details

By default, different NA data are not considered equal. collapseNA collapses runs of NA in the result. For recursion however they are treated as singular data, not as runs. This may need discussion.

Value

list of run length encoded lines

Note

This could go to rle in package base.

The date structure used for rle would be better represented as a data.frame.

Run length and other compressions might be implemented in data.frames by default.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

See Also

rrleb

Examples

```
x <- matrix(c(
1,1,1,2,2,
3,3,4,4,4,
5,5,6,6,7,
8,9,9,0,0
),nrow=4, ncol =5, byrow=TRUE)
xrrle <- rrle(x)
xrrle
t(sapply(xrrle, inverse.rle))
```

rrleb

Recursive run length encoding bottom up.

Description

Encode a matrix as run-length, bottom up. Encoding respects previous runs, e.g line n-1 encodes rns in each run of line n.

May be removed.

24 sampleRprof

Usage

```
rrleb(x)
```

Arguments

 \mathbf{x}

a matrix.

Value

list of run length encoded lines

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

See Also

rle,

Examples

```
 \begin{array}{l} x <- \ matrix(c(\\ 3,3,4,4,4,\\ 5,5,6,6,7,\\ 8,9,9,0,0,\\ 1,1,1,2,2 \\ ), nrow=4,\ ncol=5,\ byrow=TRUE)\\ xrrleb <- \ rrleb(x)\\ xrrleb \\ t(sapply(xrrleb,\ inverse.rle)) \end{array}
```

 ${\bf sample Rprof}$

Get a sample profile

Description

Get a sample profile and return it as a sprof data structure.

Usage

```
sampleRprof(expr, runs = NULL, gcFirst = TRUE, interval = 0.001, ...)
```

Arguments

expr an expression to be profiled.

runs nr of runs to profile. gcFirst boolean. Profile GC.

interval Real: time interval between samples, in s. ... additional parameters, passed to Rprof

shownodes 25

Value

A list of type sprof

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

References

```
http://sintro.r-forge.r-project.org/
```

Examples

```
res\_lm <- sampleRprof(for (i in 1:1000) \ yy <- \ lm(runif(1000) ~rnorm(1000)), \ runs = 100)
```

shownodes

Show node information from a profile

Description

Plot node information from a profile in various plots.

Usage

```
shownodes(sprof, col)
```

Arguments

sprof A data structure as returned by readRprof.

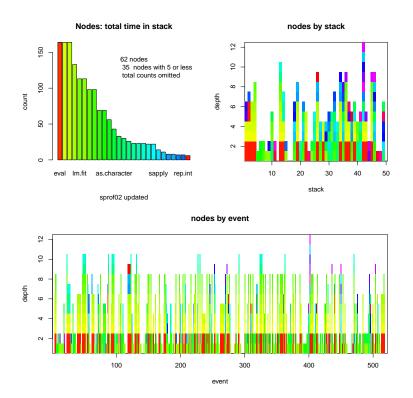
col A colour palette for the plots.

Details

Note: these figures may be outdated. Please run the examples.

Plots are from this collection:

26 sprof01lm



Value

Used for the side effect of showing the plots.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

Examples

```
## Not run:
data(sprof01lm)
shownodes(sprof01lm)
## End(Not run)
```

sprof01lm

sprof sample data

Description

An example data set for the functions in package sprof.

Usage

data(sprof01lm)

stackstoadj 27

Format

The format is: A List of 4 \$ info :'data.frame': 1 obs. of 8 variables: \$ nodes :'data.frame': 62 obs. of 5 variables: \$ stacks :'data.frame': 50 obs. of 7 variables: \$ profiles:List of 4

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

References

See the vignette of package sprof.

Examples

```
data(sprof01lm)
str(sprof01lm)
plot(sprof01lm)
```

stackstoadj

Stacks to adjacency matrix

Description

convert stack information to adjacency matrix

Usage

stackstoadj(xstacks, xfreq, maxnode)

Arguments

xstacks list of stack ids

xfreq vector of frequencies or weights

maxmode maximum of nodes (maybe higher then in stacks)

Value

the adjacency matrix

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

Examples

#

28 summary.sprof

 str_prof

str for sprof objects

Description

str for sprof objects

Usage

```
str\_prof(x)
```

Arguments

 \mathbf{x}

an sprof object

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

Examples

```
data(sprof01lm)
str_prof(sprof01lm)
```

summary.sprof

Summary for profiles

Description

Print a summary for the output of class scode.

Usage

```
## S3 method for class 'sprof' summary
(object, ...)
```

Arguments

object A data structure as returned by readRprof.

... further arguments passed to or from other methods.

Value

None.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

summary_terminals 29

References

```
http://sintro.r-forge.r-project.org/
```

See Also

```
summaryRprof
```

Examples

```
## Not run:
## Rprof() is not available on all platforms
profinterval <- 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)
summary(Rprof_out)
## End(Not run)
```

summary_terminals

Tabulate leaf nodes

Description

Tabulate leaf nodes

Usage

```
summary\_terminals(x)
```

Arguments

Х

an sprof data structure.

Value

A table of frequencies, bystack.

30 writeRprof

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

Examples

```
\frac{\mathrm{data}(\mathrm{sprof}01\mathrm{lm})}{\mathrm{summary\_terminals}(\mathrm{sprof}01\mathrm{lm})}
```

updateRprof

Update statistics and tables in a sprof obejct

Description

Synchronize information from profiles and stack tables, and update statistics.

Usage

```
updateRprof(sprof, id)
```

Arguments

sprof A data structure as returned by readRprof. id optional. A replacement for the info\$id string .

Value

An updated sprof data structure.

Note

See the vignette of package sprof.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

writeRprof

Write profile data

Description

Write a profile data file from a sprof data structure.

Usage

```
writeRprof(sprof, filename = "Rprof.Out")
```

writeRprof 31

Arguments

sprof a data structure from package sprof

filename The file to be used for exporting the profiling results.

Details

writeRprof only writes the stack entries for the profile.

This can be used to export information after preprocessing with sprof to some package designed for Rprof output.

Value

An invisble list with the profile entries, headers removed.

Note

See the vignette for in-context explanations.

Displays of the graph structure are given in the vignette.

Author(s)

Günther Sawitzki <gsawitzki@users.r-forge.r-project.org>

References

```
http://sintro.r-forge.r-project.org/
```

```
## Not run:
data(sprof01lm)
writeRprof(sprof01lm)
## End(Not run)
```

Index

*Topic datasets	*Topic util
sprof01lm, 26	nodepackage, 8
*Topic hplot	profiles matrix, 19
barplot s, 4	rkindex, 22
nodescloud, 9	,
plot.sprof, 12	adjacency, 3
plot nodes, 13	as.matrix, 7
plot profiles, 15	
plot stacks, 17	barplot, 4, 5
shownodes, 25	$\mathrm{barplot}_{\mathrm{s}}, 4$
*Topic list	1 16 6
list.as.matrix, 7	edgedf, 6
*Topic manip	flatProfile, 21
edgedf, 6	11401 101110, 21
nodesprofile, 10	getAnywhere, 8
nodesrunlength, 11	3 V
rrle, 22	list.as.matrix, 7
rrleb, 23	
stackstoadj, 27	nodepackage, 8
*Topic matrix	nodescloud, 9
list.as.matrix, 7	nodesprofile, 10
rrle, 22	nodesrunlength, 11
rrleb, 23	C 21
*Topic methods	parse_rprof, 21
summary.sprof, 28	plot.sprof, 12, 15, 16, 18 plot nodes, 13, 13
*Topic print	plot_nodes, 13, 13 plot_profiles, 13, 15
print.sprof, 18	plot stacks, 13, 17
print_profiles, 19	print.sprof, 18
*Topic utilities	print nodes (print.sprof), 18
adjacency, 3	print profiles, 19
list.as.matrix, 7	print stacks (print.sprof), 18
plot.sprof, 12	profiles matrix, 19
readRprof, 20	<u> </u>
rrle, 22	readRprof, 2, 9, 12, 18, 20, 25, 28, 30
rrleb, 23	rkindex, 22
sampleRprof, 24	rle, 24
sprof-package, 2	Rprof, 2, 20, 21
stackstoadj, 27	Rprofmem, 21
str_prof, 28	rrle, 22
summary.sprof, 28	rrleb, 23, 23
summary_terminals, 29	1 D (2 24
updateRprof, 30	sampleRprof, 2, 24
writeRprof, 30	shownodes, 12, 13, 25

INDEX 33

```
sprof (sprof-package), 2
sprof-package, 2
sprof01lm, 26
stackstoadj, 27
str_prof, 28
summary.sprof, 28
summary_nodes (summary.sprof), 28
summary_profiles (summary.sprof), 28
summary_stacks (summary.sprof), 28
summary_terminals, 29
summaryRprof, 13, 18, 21, 29
tracemem, 21
updateRprof, 30
writeRprof, 30
```