

Package ‘estout’

February 19, 2015

Version 1.2

Date 2013-02-24

Title Estimates Output

Author Felix Kaminsky <fkamins@uni-goettingen.de>, inspired by the estout package for Stata.

Maintainer Felix Kaminsky <fkamins@uni-goettingen.de>

Description This package is intended to speedup the process of creating model-comparing tables common in Macroeconomics. The function collection stores the estimates of several models and formats it to a table of the form estimate starred and std.err. below. The default output is LaTeX but output to CSV for later editing in a spreadsheet tool is possible as well. It works for linear models (lm) and panel models from the ``plm"-package (plm). Two further implemented functions ``descsto" and ``descstab" enable you to export descriptive statistics of data-frames and single variables to LaTeX and CSV.

License GPL-2

URL <http://www.toolswitch.net>

NeedsCompilation no

Repository CRAN

Date/Publication 2013-02-26 16:24:42

R topics documented:

descclear	2
descsto	2
descstab	4
estclear	5
eststo	5
esttab	7

Index	9
--------------	----------

descclear *Cleaning up after descsto.*

Description

Cleaning dcl object created by the descsto() function.

Usage

```
descclear(store="default")
```

Arguments

store Remove storage unit for specific output tables.

Value

descclear() clears all data stored in the dcl object that is created by the descsto() function.

Author(s)

Felix Kaminsky <fkamins@uni-goettingen.de> inspired by estout for Stata.

Examples

```
## Not run:
descclear()
descclear(store="tab1")

## End(Not run)
```

descsto *Descriptive Storage*

Description

descsto stores the descriptive statistics of the summary command of data.frames and single vectors of a variable into the list object "dcl".

Usage

```
descsto(x,row=NULL,name=NULL,drop.row=NULL,store="default")
```

Arguments

x	Either a data.frame of observations or a single vector.
name	Mandatory parameter in case you add a single vector.
row	Optional parameter. Using row= you can overwrite existing rows "dcl".
drop.row	Vector to remove rows from the output table. Note: Braces need to be escaped with a \. E.g. \).
store	Define specific storage units for multiple tables. Each unit holds one set of data for one output table.

Value

The list object 'dcl' is returned.

comp1	variables stored
comp2	variable name, 1st Qu., 2nd Qu., Median, Mean, 3rd Qu., 4th Qu., Missing Values
comp3	estimate, std.err., t-value, p-value

Author(s)

Felix Kaminsky <fkamins@uni-goettingen.de> inspired by estout for Stata.

See Also

desctab, eststo, esttab, estclear

Examples

```
## Not run:
B <- read.table("../data/bwght.tab", header=TRUE)
C <- read.table("../data/lala.tab", header=TRUE)
attach(B)

descsto(B)
descsto(cigs, name="cigarettes")
descsto(faminc, name="faminc", row=2)
descsto(store="tabC")

## End(Not run)
```

desctab	<i>Description Table</i>
---------	--------------------------

Description

Uses the data stored in the "dcl" object to create a standard formatted table. The default is LaTeX (optionally CSV) is possible. Therefore it is possible to import the output into a spreadsheet program and edit it for a wordprocessor.

Usage

```
desctab(filename=NULL,caption = NULL, label = NULL, csv=FALSE
, dcolumn=NULL,booktabs=FALSE,store="default")
```

Arguments

filename	give an alternative filename, default is "descout.tex"
caption	to be used in the LaTeX output table
label	to be used in the LaTeX output table
csv	for output to csv (comma separated textfile) for direct import to a spreadsheet program,default is TeX-output
dcolumn	inserting a in the head defined dcolumn column-type.
booktabs	if set to TRUE "\hline" is replaced by its booktabs counterparts.
store	Calls up specific storage unit to output this table.

Author(s)

Felix Kaminsky <fkamins@uni-goettingen.de> inspired by estout for Stata.

See Also

eststo, estclear, esttab, descsto

Examples

```
## Not run:
desctab(caption="Example Title",label="bwgth",filename="overview.tex")

## End(Not run)
```

estclear	<i>Cleaning up after eststo.</i>
----------	----------------------------------

Description

Cleaning ccl object created by the eststo() function.

Usage

```
estclear(store="default")
```

Arguments

When using the default storage unit, no parameters are necessary.

Parameter to clear specific table storage unit.

Value

store estclear() clears all data stored in the ccl object that is created by the eststo() function.

Author(s)

Felix Kaminsky <fkamins@uni-goettingen.de> inspired by estout for Stata.

Examples

```
## Not run:  
estclear()  
estclear(store="tab1")  
  
## End(Not run)
```

eststo	<i>Estimates Storage</i>
--------	--------------------------

Description

Function that stores the estimates, R squared, adjusted R squared, number of observations, standard errors, t- and p-values in the list object "ccl".

Usage

```
eststo(x,est_column=NULL,store="default")
```

Arguments

<code>x</code>	R object containing an estimated model.
<code>est_column</code>	is an optional argument to control in which position the model values are stored. By default however the model is stored at the end of the list. It is important to know that additional variables, contained in further models, need to be placed at the end or in the correct order. See the example below! (cigs,motheduc,faminc)
<code>store</code>	Specifies the storage units for individual tables. Each unit contains the data for one output table.

Value

The list object 'ccl' is returned.

<code>comp1</code>	models stored
<code>comp2</code>	estimates stored of each model, the last list contains R, adj. R, N
<code>comp3</code>	estimate, std.err., t-value, p-value

Author(s)

Felix Kaminsky <fkamins@uni-goettingen.de> inspired by estout for Stata.

See Also

esttab, estclear

Examples

```
## Not run:
B <- read.table("../data/bwght.tab",header=TRUE)
attach(B)

b.cigs.motheduc <- lm(bwght ~ cigs + motheduc)
b.cigs.faminc <- lm(bwght ~ cigs + faminc)
b.cigs.motheduc.faminc <- lm(bwght ~ cigs + motheduc + faminc)

eststo(b.cigs.motheduc)
eststo(b.cigs.faminc)
eststo(b.cigs.motheduc.faminc)

eststo(model1,store="tab2")
eststo(model2,store="tab2")
eststo(model3,store="tab2")

## End(Not run)
```

esttab

*Estimates Table***Description**

Uses the data stored in the "ccl" object to create a formatted table. The default is LaTeX but since version 0.5 export to CSV is possible. Therefore it is possible to import the output into a spreadsheet program and edit it for a wordprocessor.

Usage

```
esttab(t.value = FALSE, p.value = FALSE, round.dec = 3,
caption = NULL, label = NULL, texfontsize = NULL,
sig.levels = c(0.1, 0.05, 0.01),
sig.sym=c("*", "**", "***"),
filename=NULL, csv=FALSE, dcolumn=NULL, table="table",
table.pos="htbp", caption.top=FALSE, booktabs=FALSE,
var.order=NULL, sub.sections=NULL, var.rename=NULL,
resizebox=c(0,0), colnumber=FALSE, store="default")
```

Arguments

t.value	if set to TRUE the table will contain t-values instead of the default standard errors
p.value	if set to TRUE the table will contain p-values instead of the default standard errors
round.dec	number of decimals to round to
caption	to be used in the LaTeX output table
label	to be used in the LaTeX output table
texfontsize	enter a LaTeX font size. (e.g. \small)
sig.levels	to change the way the stars are calculated. The values must be given as a vector from largest to smallest p-value
sig.sym	vector of symbols to depict significance levels in TeX-tables. Insert the TeX command between the "". The vector corresponds to the sig.levels vector. Please note that due to the cat command backslash needs to be inserted twice in order to appear in the TeX document. (e.g. "\\alpha")
filename	determines the filename of the output. Default is NULL, output is printed to screen.
csv	for output to csv (comma separated textfile) for direct import to a spreadsheet program. The default is TeX-output.
dcolumn	a string can be inserted that corresponds to a predefined column type in the TeX-document's head.
table	a string for choosing a different table type like sideways or tablex.

table.pos	for setting positioning parameters for table. For table-types that don't require these parameters insert 'NULL'.
caption.top	if set to TRUE the caption will be inserted above the table.
booktabs	if set to TRUE the \hline commands are replaced by there corresponding booktabs commands.
var.order	by default the order of variables is determined by there appearance in the models. Providing a vector of variables here in a different order will change the order of variables in the output table. Note that '(Intercept)' is enclosed in braces.
sub.sections	if one needs to subdivide the table in several sections using 'subtitles' this can be done here. Providing a vector of the form c(linenummer,"subtitle",2nd linenummer,"2ndsubtitle") and so forth.
var.rename	vector of names to replace variable abbreviations of model with real names. (e.g. var.rename=c("old.name1","new.name1","old.name2","new.name2"))
resizebox	vector containing width and height for resizebox. (e.g. resizebox=c("\textwidth","!").) Default c(0,0) disables resizebox.
colnumber	turn on/off column / model number. Off by default.
store	Specifies the storage unit where the data is stored that should be used for the output table.

Author(s)

Felix Kaminsky <fkamins@uni-goettingen.de> inspired by estout for Stata.

See Also

eststo, estclear

Examples

```
## Not run:
esttab(t.value=TRUE,round.dec=2,caption="Example Title",label="bwgth")
esttab(p.value=TRUE,colnumber=TRUE,texfontsize="\small",store="tab2")

## End(Not run)
```


Index

descclear, 2
descsto, 2
desctab, 4

estclear, 5
eststo, 5
esttab, 7