Package ‘estout’

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Title Estimates Output
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Description This package is intended to speed up 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 `desctab` enable you to export descriptive statistics of data-frames and single variables to LaTeX and CSV.
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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

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

## End(Not run)
```

descsto

Descriptive Storage

Description

desco 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")
**descsto**

**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**

```r
## 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

Description Table

**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**

```r
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**

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

## End(Not run)
```
estclear

Cleaning up after eststo.

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

Estimates Storage

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

x  R object containing an estimated model.

est_column  is an optional argument to control in which position the model values are stored. By default however the model ist 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)

store  Specifies the storage units for individual tables. Each unit contains the data for one output table.

Value

The list object `ccl` is returned.

comp1  models stored

comp2  estimates stored of each model, the last list contains R, adj. R, N

comp3  estimate, std.err., t-value, p-value

Author(s)

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

See Also

esttab, estclear

Examples

```r
## 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)
```
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

```r
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 book-
tabs 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(linenumber,"subtitle",2nd linenum-
ber,"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)
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