Using LaTeXand Stata I*

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1 outtex

outtex generates LaTeXcode for results tables after any estimation command used in STATA. If file(string) is specified, the code is written to the specified file. Otherwise, the code is displayed in the command window.

1.1 Examples

. outtex

Table 1: Estimation results : regress

Variable	**Coefficient**	**(Std. Err.)**
headroom	-615.694	(298.734)
trunk	-11.802	(83.448)
weight	3.781	(0.929)
foreign	3654.777	(671.866)
mpg	14.432	(78.544)
Intercept	-4641.084	(3624.259)

. outtex, detail

Table 2: Estimation results : regress

Variable	**Coefficient**	**(Std. Err.)**
headroom	-615.694	(298.734)
trunk	-11.802	(83.448)
weight	3.781	(0.929)
foreign	3654.777	(671.866)
mpg	14.432	(78.544)
Intercept	-4641.084	(3624.259)
N	74	
R^2	0.526	
$F_{(5,68)}$	13.75	

*Please note: Most of the command descriptions are taken from the respective STATA help files. The LaTeXexamples presented were not reformatted and present the output from the respective commands.

. outtex, detail level below

Table 3: Estimation results : regress

Variable	**Coefficient** (Std. Err.)
headroom	-615.694* (298.734)
trunk	-11.802 (83.448)
weight	3.781** (0.929)
Intercept	-4641.084 (3624.259)
N	74
R^2	0.526
$F_{(5,68)}$	13.75

. outtex, detail level below digits (5) legend

Table 4: Estimation results : regress

Variable	**Coefficient** (Std. Err.)
headroom	-615.69445* (298.73381)
trunk	-11.80202 (83.44773)
weight	3.78137** (0.92917)
foreign	3654.77717** (671.86643)
Intercept	-4641.08359 (3624.25921)
N	74
R^2	0.52558
$F_{(5,68)}$	13.75031

Significance levels : † : 10% * : 5% ** : 1%

. outtex, detail level below digits (5) legend label nopar

Table 5: Estimation results : regress

Variable	**Coefficient**
	Std. Err.
Headroom (in.)	-615.69445*
	298.73381
Trunk space (cu. ft.)	-11.80202
	83.44773
Weight (lbs.)	3.78137**
	0.92917
Car type	3654.77717**
	671.86643
Intercept	-4641.08359
	3624.25921
N	74
R^2	0.52558
$F_{(5,68)}$	13.75031

Significance levels : † : 10% ∗ : 5% ∗∗ : 1%

. outtex, detail level below digits (5) legend label nopar title(Auto Results) long

Table 6: Auto Results

Variable	**Coefficient**
	Std. Err.
Headroom (in.)	-1954.67326
	0.00000
Trunk space (cu. ft.)	-105.83518
	0.00000
Weight (lbs.)	5.06937
	0.00000
Car type	7041.34842
	0.00000
Mileage (mpg)	8.89811
	0.00000
Mileage (mpg)	0.00000
	0.00000
Mileage (mpg)	-457.30627
	0.00000
Mileage (mpg)	2253.28778
	0.00000
Mileage (mpg)	501.75605
	0.00000

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... table 6 continued

Variable	Coefficient Std. Err.
Mileage (mpg)	-494.59230 0.00000
Mileage (mpg)	93.21473 0.00000
Mileage (mpg)	3551.12175 0.00000
Mileage (mpg)	1845.04314 0.00000
Mileage (mpg)	1963.62380 0.00000
Mileage (mpg)	4738.46477 0.00000
Mileage (mpg)	-1114.64237 0.00000
Mileage (mpg)	4100.17592 0.00000
Mileage (mpg)	-206.56377 0.00000
Mileage (mpg)	4144.59991 0.00000
Mileage (mpg)	8038.74966 0.00000
Mileage (mpg)	6110.56818 0.00000
Mileage (mpg)	3082.92246 0.00000
Mileage (mpg)	1691.19753 0.00000
Mileage (mpg)	1727.34302 0.00000
Mileage (mpg)	-913.27667 0.00000
Mileage (mpg)	-937.98783 0.00000
Mileage (mpg)	-485.64473 0.00000
Mileage (mpg)	-4565.25110 0.00000
Mileage (mpg)	-3348.74357 0.00000

Continued on next page...

... table 6 continued

Variable	Coefficient
	Std. Err.
Mileage (mpg)	-3101.56270
	0.00000
Mileage (mpg)	-2407.47010
	0.00000
Mileage (mpg)	2625.15888
	0.00000
Mileage (mpg)	117.13864
	0.00000
Mileage (mpg)	2010.93487
	0.00000
Mileage (mpg)	3149.00297
	0.00000
Mileage (mpg)	-2250.78207
	0.00000
Mileage (mpg)	3798.65059
	0.00000
Mileage (mpg)	433.14861
	0.00000
Mileage (mpg)	-998.67920
	0.00000
Mileage (mpg)	-1398.59070
	0.00000
Mileage (mpg)	923.35352
	0.00000
Mileage (mpg)	1250.66337
	0.00000
Intercept	-4899.12890
	0.00000
N	74
R^2	01

Significance levels : † : 10% ∗ : 5% ∗∗ : 1%

2 outtable

outtable automates the conversion of a STATA matrix to a LaTeXtable, written to an external file. The table is presented with row and column names taken from the specified matrix. Thus, one need only generate the appropriate matrix using standard STATA commands. By default, only the lower triangle of a symmetric matrix will be written, as inferred by STATA's issym() function. The using clause is required, and must specify the name of a file to which the LaTeXtable is to be written, without the .tex extension. If the file exists, either the replace option or the append option must be specified.

The mat qualifier specifies the name of the existing matrix which is to be written in tabular form.

2.1 Examples

Table 7: Estimation results : regress

Variable	**Coefficient**	**(Std. Err.)**
headroom	-615.694	(298.734)
trunk	-11.802	(83.448)
weight	3.781	(0.929)
foreign	3654.777	(671.866)
mpg	14.432	(78.544)
Intercept	-4641.084	(3624.259)

. outtable using table1, mat(var)

	headroom	trunk	weight	foreign	mpg	cons
headroom	89241.892					
trunk	-9051.8182	6963.5229				
weight	-.01509157	-54.674469	.86335694			
foreign	16858.189	-20568.959	364.95446	451404.5		
mpg	-1561.2622	-1431.1221	48.811531	7625.2183	6169.1287	
cons	-112756.91	125475.69	-2926.9435	-1160516.4	-255423.09	13135255

. outtable using table1, mat(var) cap(Variance-Covariance Matrix) nobox append

Table 8: Variance-Covariance Matrix

	headroom	trunk	weight	foreign	mpg	cons
headroom	89241.892					
trunk	-9051.8182	6963.5229				
weight	-.01509157	-54.674469	.86335694			
foreign	16858.189	-20568.959	364.95446	451404.5		
mpg	-1561.2622	-1431.1221	48.811531	7625.2183	6169.1287	
cons	-112756.91	125475.69	-2926.9435	-1160516.4	-255423.09	13135255

3 sutex

sutex generates LaTeXcode for summary statistics tables. If file(string) is specified, the code is written to the specified file (if replace is not specified, then the code is appended to the existing file, if any). Otherwise, the code is displayed in the output window. When longtable is selected, and if you `\usepackage{longtable}` in the preamble of your LaTeXdocument, tables can span over several pages.

3.1 Examples

. sutex

Table 9: Summary statistics

Variable	Mean	Std. Dev.	N
price	6165.257	2949.496	74
mpg	21.297	5.786	74
rep78	3.406	0.99	69
headroom	2.993	0.846	74
trunk	13.757	4.277	74
weight	3019.459	777.194	74
length	187.932	22.266	74
turn	39.649	4.399	74
displacement	197.297	91.837	74
gear_ratio	3.015	0.456	74
foreign	0.297	0.46	74
make2	37.5	21.506	74

. sutex, minmax nobs par labels

Table 10: Summary statistics

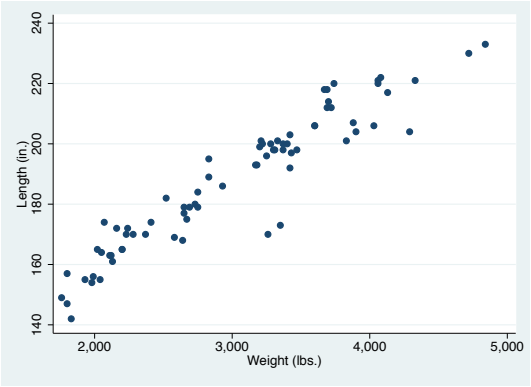
Variable	Mean	(Std. Dev.)	Min.	Max.	N
Price	6165.257	(2949.496)	3291	15906	74
Mileage (mpg)	21.297	(5.786)	12	41	74
Repair Record 1978	3.406	(0.99)	1	5	69
Headroom (in.)	2.993	(0.846)	1.5	5	74
Trunk space (cu. ft.)	13.757	(4.277)	5	23	74
Weight (lbs.)	3019.459	(777.194)	1760	4840	74
Length (in.)	187.932	(22.266)	142	233	74
Turn Circle (ft.)	39.649	(4.399)	31	51	74
Displacement (cu. in.)	197.297	(91.837)	79	425	74
Gear Ratio	3.015	(0.456)	2.19	3.89	74
Car type	0.297	(0.46)	0	1	74
Make and Model	37.5	(21.506)	1	74	74

4 graph2tex

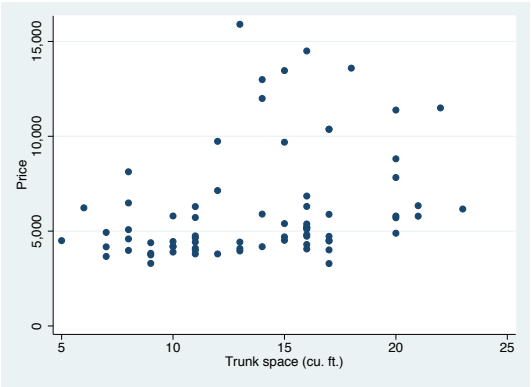
graph2tex takes the most recently created graph and exports it as a .eps file; it displays LaTeXcode you could insert for displaying the figure in your LaTeX document. Note that you need to have the `\usepackage{epstopdf}` in the preamble of your LaTeXdocument.

4.1 Examples

. graph2tex, epsfile(auto1) number reset



. graph2tex, epsfile(auto2) number



5 latab

latab tabulates the varlist (max of 2 variables) and produces a display with LaTeXcode embedded in the output. The user may then copy from this display (or copy from a log file) and paste into a LaTeXdocument. In addition, the user may also send the output to a file which can be read into a LaTeXdocument when it is compiled. latab is a companion program to latabstat which produces LaTeXoutput from tabstat.

5.1 Example

Table 11: **Car type**

Item	Number	Per cent
Domestic	52.0	70.3
Foreign	22.0	29.7
Total	74.0	100.0

6 latabstat

latabstat is a modification of tabstat which produces a display with LaTeXcode embedded in the output. The user may then copy from this display (or copy from a log file) and paste into a LaTeXdocument. In addition, the user may also send the output to a file which can be read into a LaTeXdocument when it is compiled. latabstat is a companion program to latab which produces LaTeXoutput from tabulate. latabstat is used in exactly the same way as tabstat, but with some additional options. See -help tabstat- for information on the usage of tabstat and its normal options.

6.1 Example

. latabstat length weight

Table 12: **Auto**

foreign	**length**	**weight**
Domestic	196.1346	3317.115
	20.04605	695.3637
	147	1800
	233	4840
	52	52
	86	3040
	-.4450463	-.24371
Foreign	168.5455	2315.909
	13.68255	433.0035
	142	1760
	193	3420
	22	22
	51	1660
	.0809646	1.056582
Total	187.9324	3019.459
	22.26634	777.1936
	142	1760
	233	4840
	74	74
	91	3080
	-.0409746	.1481164

7 listtab

listtab lists the variables in the varlist (or all variables, if the varlist is absent) to the STATA log, or to a file (or files) specified by using, appendto() or handle(), in a table format, with one table row per observation and the values of different variables separated by a delimiter string. Optionally, the user may specify a list of header lines before the data rows and/or a list of footer lines after the data rows. The log or output file can then be cut and pasted, or linked or embedded (e.g. with the LaTeXinput command), into a LaTeX, HTML or word processor table. Values of numeric variables are output according to their display formats or value labels (if non-missing), or as the missing value string specified by missnum() (if missing).

7.1 Example

Table 13: **Auto**

foreign	length	weight
Merc. Zephyr	Domestic	2,830
Chev. Chevette	Domestic	2,110
Chev. Monza	Domestic	2,750
Toyota Corolla	Foreign	2,200
Subaru	Foreign	2,050

8 corrtex

corrtex produces a correlation table in LaTeXformat. This command is inspired by mktab and outreg commands, and its code heavily borrows from mkcorr and sutex commands. This command offers a number of advantages such as allowing the use of labels, controlling the number of decimal places used, and other LaTeXspecific formatting options.

8.1 Example

. corrtex price foreign mpg if price > 5000, file(2)

Table 14: Cross-correlation table

Variables	Price	Mileage (mpg)
Price	1.000	
Mileage (mpg)	-0.388	1.000

9 estout

estout assembles a table of coefficients, "significance stars", summary statistics, standard errors, t- or z-statistics, p-values, confidence intervals, and other statistics for one or more models previously fitted and stored by estimates store or eststo. It then displays the table in STATA's results window or writes it to a text file.

9.1 Examples

. eststo: quietly regress price weight mpg
. estadd vif
. esttab using example.tex, aux(vif 2) wide nopar append

	(1) price	
weight	1.747**	2.87
mpg	-49.51	2.87
_cons	1946.1	
N	74	

vif in second column

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

. eststo: quietly regress price weight mpg
. eststo: quietly regress price weight mpg foreign
. esttab using example.tex,stats(r2 bic N) label nostar title(Regression table)

Table 15: Regression table

	(1) Price	(2) Price
Weight (lbs.)	1.747	3.465
	(2.72)	(5.49)
Mileage (mpg)	-49.51	21.85
	(-0.57)	(0.29)
Car type		3673.1
		(5.37)
Constant	1946.1	-5853.7
	(0.54)	(-1.73)
r2	0.293	0.500
bic	1378.6	1357.4
N	74	74

t statistics in parentheses