

Viewer (#1) [help Essen07_jann]

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Command: help Essen07_jann

Making regression tables simplified

Two new commands: `est0` and `esta`

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outline

- Introduction
- `est0`: Storing estimates simplified
- `esta`: Tabulating estimates simplified
- Use with Word, Excel, LaTeX, etc.
- Discussion

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Introduction

- Output from estimation commands contains all sorts of details and we often only want to display selected and concisely arranged results in form of "regression tables".

Regression tables are useful

- to get an overview of results in daily research work,
- for results presentation in reports and publications.

- Stata features a command to produce regression tables called `estimates table`.

However, `estimates table`

- is only intended for displaying the models in the Results window or the log,
- is often not flexible enough to produce customized tables.

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Introduction

- Since copy/paste by hand is not an option, various user programs for automatic results processing have been written.

One of these commands is **estout** (Jann 2005, SJ 5-3). It compiles regression tables containing results from one or more estimation commands for use in, say, LaTeX documents, spreadsheet programs, or word processors.

- Some alternatives:
outreg (John Luke Gallup)
outreg2 (Roy Wada)
xml_tab (Michael Lokshin and Zurab Sajaia)
outtex (Antoine Terracol)
est2tex (Marc Muendler)
mktab (Nicholas Winter)
parmest (Roger Newson)

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Introduction

Although **estout** turned out to be quite powerful, the motivational orientation towards functionality rather than ease-of-use brought with it some limitations that may make the use of **estout** somewhat clumsy in daily work.

- **estout** tables are usually not suitable for display in Stata's results window.
- **estout**'s syntax is not as intuitive and user-friendly as it could be.
- The amount of typing required to compile even a simple table can be quite considerable. (The basic approach of **estout** is to provide a "clean desk" from which a fully-fledged end-product can be built up. Although, options may be pre-specified via so-called defaults files, this does not appear beneficial unless working on large reports with lots of similar tables.)

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Introduction

An additional issue with `estout` is that the estimation sets have to be stored using official Stata's `estimates store` before they can be tabulated.

Drawbacks of `estimates store` are:

- The user is required to specify names under which to store the estimation sets. This can be distracting.
- The stored estimates consume a considerable amount of memory. (In order to preserve functionality of postestimation commands, an estimation sample indicator variable is stored for each estimation set. These indicators may blow up the dataset if it contains a large number of observations or if many estimation sets are stored. Additionally, storing the estimation samples has the side effect of slowing down cycling through the stored sets, which also slows down tabulation programs such as `estout` or official Stata's `estimates table`.)

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Introduction

To summarize, there seems to be a need for

- (1) an easy-to-use version of `estout`,
- (2) a simplified procedure to hold on to estimates for tabulation.

In the remainder of this talk I will address these two points (in reverse order) and present

- a command called `est0` to overcome the limitations of `estimates store`,
- a user-friendly `estout` wrapper called `esta`.

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est: Storing estimates simplified

Syntax:

```
est [ name ] [, options] [: command]
est drop {#|name} [...]
est clear
```

options	description
[no]esample	do not/do store e(sample)
title(string)	specify a title for the stored set
addscalars(...)	add scalar statistics
refresh[(#)]	overwrite a previously stored set
nocopy	clear e() after storing the set

Usage is analogous to official stata's `estimates store`.
However, `name` is optional and the `e(sample)` may be dropped.

`_est` is short for `est`, `noexample`

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Command: help Essen07_jann

est: Storing estimates simplified

Basic example:

```
sysuse auto, clear
regress price weight mpg
est

regress price weight mpg foreign
est

estout, style(fixed)
<run>

macro dir
<run>

est clear
<run>
```

Stata/SE 9.2 - [Results]

File Edit Prefs Data Graphics Statistics User Window Help

Stata Toolbar

Review Command Variables

	price	Coef.	std. Err.	t	P> t	[95% conf. I
weight	3.464706	.630749	5.49	0.000	2.206717	
mpg	21.8536	74.22114	0.29	0.769	-126.1758	
foreign	3673.06	683.9783	5.37	0.000	2308.909	
_cons	-5853.696	3376.987	-1.73	0.087	-12588.88	

```

est
(est2 stored)

.
estout, style(fixed)

      est1      est2
      b        b
weight    1.746559   3.464706
mpg      -49.51222   21.8536
foreign     3673.06
_cons     1946.069  -5853.696

end of do-file
more

```

D:\Home\jannb\Projekte\Stata\estimates\estout\Essen07\vortrag

Stata/SE 9.2 - [Results]

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Stata Toolbar

Review Command Variables

```

macro dir
AcroRD:          C:\Program Files\Adobe\Acrobat 7.0\Reader\AcroRD32.exe
S_E_depvt:       price
S_E_cmd:         regress
estos_counter:   2
estos:           est1 est2
S_FNDATE:        13 Apr 2005 17:45
S_FN:             C:\Program Files\stata9\ado\base/a/auto.dta
F5:               do D:\Home\ado\winedtstata\_temp;
S_ADO:            UPDATES;BASE;SITE;;PERSONAL;PLUS;OLDPLACE;`"D:\Home\ado\winedtstata\_temp;
S_level:         95
F1:               help
F2:               #review;
F3:               describe;
F7:               save
F8:               use
S_StataSE:       SE
S_FLAVOR:        Intercooled
S_OS:            Windows
S_MACH:          PC

end of do-file
more

```

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```

est: Storing estimates simplified

Use est as a prefix command:

est: regress price weight mpg
est: regress price weight mpg foreign
estout, style(fixed)
<run>

Drop the e(sample):

est, noesample: reg price weight mpg
_est: reg price weight mpg
estimates dir
describe _est*
<run>

Add additional results while storing:

est clear
regress price weight mpg
test weight = mpg
est, add(p_diff r(p))
estout, style(fixed) stats(p_diff)
<run>

```

Stata/SE 9.2 - [Results]

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Stata Toolbar

Review Variables Command

```

(est4 stored)

estimates dir

model      command      depvar      npar      title
est1        regress       price        3
est2        regress       price        4
est3        regress       price        3
est4        regress       price        3

describe _est*

variable    storage      display      value
name        type        format      label      variable label
_<est>_est1   byte        %8.0g      esample() from estimates
_<est>_est2   byte        %8.0g      esample() from estimates

end of do-file
more

```

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Screenshot of Stata/SE 9.2 Results window showing command history and output.

```

test weight = mpg
( 1)  weight - mpg = 0
      F(  1,    71) =     0.36
                  Prob > F = 0.5514

est, add(p_diff r(p))
(e(p_diff) = .55138216 added)
(est1 stored)

estout, style(fixed) stats(p_diff)

      est1
      b
weight      1.746559
mpg        -49.51222
_cons      1946.069
p_diff      .5513822

end of do-file
more

```

D:\Home\jannb\Projekte\Stata\estimates\estout\Essen07\vortrag

Screenshot of Stata Viewer window showing help for the `esta` command.

esta: Tabulating estimates simplified

The new `esta` command is a wrapper for `estout`. Some features:

- simplified syntax
- default: publication-style table that displays nicely in Stata's results window
- provides full `estout` functionality since all `estout` options are allowed
- extends functionality (e.g. Word RTF and Excel CSV output modes, improved LaTeX support)

Basic syntax:

```

esta [ namelist ] [ using filename ] [, opts estout_opts ]

```

If `namelist` is omitted, `esta` tabulates the estimation sets stored by `est`.

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```
esta: Tabulating estimates simplified
```

Overview of options:

```
b(fmt) beta[(fmt)] main(name [fmt]) t(fmt) abs not  
se[(fmt)] p[(fmt)] ci[(fmt)] aux(name [fmt]) [no]constant  
[no]star[(list)] staraux  
  
r2[(fmt)] ar2[(fmt)] pr2[(fmt)] aic[(fmt)] bic[(fmt)]  
scalars(list) sfmt(fmt [...]) noobs obslast  
  
wide [no]parentheses brackets [no]gaps [no]lines compress plain  
  
label title(string) mtitles(list) nomtitles [no]depvars  
[no]numbers coeflabels(list) [no]notes addnotes(list)  
  
smcl | fixed | tab | csv | scsv | rtf | html | tex | booktabs  
fragment page[(packages)] alignment(string) width(string)  
  
replace append type noisily  
  
drop(list) keep(list) order(list) equations(list)  
eform margin unstack other_estout_options
```

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```
esta: Tabulating estimates simplified
```

Basic usage:

```
estو clear  
sysuse auto, clear  
estو: regress price weight mpg  
estو: regress price weight mpg foreign  
esta  
<run>
```

Display standard errors and add summary statistics:

```
esta, se ar2 nostar  
<run>
```

Display beta coefficients:

```
esta, beta not  
<run>
```

Stata/SE 9.2 - [Results]

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Stata Toolbar

Review

Variables

```
Command
esta
```

	(1)	(2)
	price	price
weight	1.747** (2.72)	3.465*** (5.49)
mpg	-49.51 (-0.57)	21.85 (0.29)
foreign		3673.1*** (5.37)
_cons	1946.1 (0.54)	-5853.7 (-1.73)
N	74	74

t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001

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Stata/SE 9.2 - [Results]

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Stata Toolbar

Review

Variables

```
Command
esta, se ar2 nostar
```

	(1)	(2)
	price	price
weight	1.747 (0.641)	3.465 (0.631)
mpg	-49.51 (86.16)	21.85 (74.22)
foreign		3673.1 (684.0)
_cons	1946.1 (3597.0)	-5853.7 (3377.0)
N	74	74
adj. R-sq	0.273	0.478

Standard errors in parentheses

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Stata/SE 9.2 - [Results]

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Review Command Variables

```

end of do-file

do_example do/9.ihlp

esta, beta not

(1)          (2)
      price      price
-----
```

weight	0.460**	0.913***
mpg	-0.097	0.043
foreign		0.573***
N	74	74

Standardized beta coefficients
* p<0.05, ** p<0.01, *** p<0.001

```

end of do-file
more
```

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esta: Tabulating estimates simplified

wide format:

```
esta, wide compress
<run>
```

Labels and titles:

```
esta, se ar2 nostar brackets label /*  

 */ title(This is a regression table) /*  

 */ nonumbers mtitles("Model A" "Model B") /*  

 */ addnote("Source: auto.dta")
<run>
```

Plain table:

```
esta, plain
<run>
```

Stata/SE 9.2 - [Results]

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Stata Toolbar

Review Variables Command

```

end of do-file
. do_example do/10.ihlp
.      estat, wide compress

(1)          (2)
price          price
-----          -----
weight        1.747**    (2.72)      3.465***   (5.49)
mpg           -49.51     (-0.57)     21.85       (0.29)
foreign        3673.1***  (-5.37)
_cons         1946.1     (0.54)      -5853.7    (-1.73)
-----          -----
N              74          74

t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001

end of do-file
more

```

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Stata/SE 9.2 - [Results]

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Stata Toolbar

Review Variables Command

```

>      /* nonumbers mtitles("Model A" "Model B") */
>      /* addnote("Source: auto.dta") */

This is a regression table

          Model A      Model B
-----      -----
weight (lbs.)    1.747      3.465
                  [0.641]    [0.631]

Mileage (mpg)    -49.51     21.85
                  [86.16]   [74.22]

car type          3673.1
                  [684.0]

Constant         1946.1     -5853.7
                  [3597.0]  [3377.0]

Observations      74          74
Adjusted R-squared  0.273     0.478

Standard errors in brackets
Source: auto.dta

```

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Stata/SE 9.2 - [Results]

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Review Command Variables

```

Standard errors in brackets
Source: auto.dta

end of do-file

. do_example do/12.ihlp

.     esta, plain

      est1      est2
weight      1.746559      3.464706
            2.723238      5.493003
mpg       -49.51222      21.8536
           -.5746808      .2944391
foreign          3673.06
                  5.370142
_cons      1946.069      -5853.696
           .541018      -1.733408
N             74          74

end of do-file
more

```

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esta: Tabulating estimates simplified

Numerical display formats may be specified as

- official Stata's display formats such as `%9.0g` or `%8.2f`
- integer values such as 0, 1, 2, etc. for fixed formats
- `a1, a2, ..., or a9` to cause `esta` choose a reasonable display format depending on the scale of the displayed number (the # in `a#` is the minimum number of significant digits)

The default display format depends on type of displayed statistic (e.g. `a3` for point estimates and fixed format 3 for p-values and the R-squared):

```

esta, p r2 nostar wide
<run>

```

Specifying alternative formats:

```

esta, b(%9.0g) p(4) r2(4) nostar wide
<run>

```

Stata/SE 9.2 - [Results]

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Stata Toolbar

Review Command Variables

```
end of do-file
. do_example do/13.ihlp
.      estat, p r2 nostar wide
```

	(1)	(2)
	price	price
weight	1.747 (0.008)	3.465 (0.000)
mpg	-49.51 (0.567)	21.85 (0.769)
foreign		3673.1 (0.000)
_cons	1946.1 (0.590)	-5853.7 (0.087)
N	74	74
R-sq	0.293	0.500

p-values in parentheses

```
end of do-file
more
```

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Stata/SE 9.2 - [Results]

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Stata Toolbar

Review Command Variables

```
end of do-file
. do_example do/14.ihlp
.      estat, b(%9.0g) p(4) r2(4) nostar wide
```

	(1)	(2)
	price	price
weight	1.746559 (0.0081)	3.464706 (0.0000)
mpg	-49.51222 (0.5673)	21.8536 (0.7693)
foreign		3673.06 (0.0000)
_cons	1946.069 (0.5902)	-5853.696 (0.0874)
N	74	74
R-sq	0.2934	0.4996

p-values in parentheses

```
end of do-file
more
```

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Command: help Essen07_jann

Use with Word, Excel, LaTeX, etc.

```
esta features various output formats:
```

- **smcl**: SMCL-formatted (default unless `using` is specified)
- **fixed**: fixed-format ASCII (default if `using` is specified)
- **tab**: tab-delimited ASCII
- **csv**: CSV (Comma Separated Value format) for use with Excel
- **scsv**: "German" version of CSV (semicolon instead of comma)
- **rtf**: Rich Text Format for use with word processors
- **html**: HTML-formatted
- **tex**: LaTeX-formatted
- **booktabs**: LaTeX-formatted for use with *booktabs*

Viewer (#1) [help Essen07_jann]

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Command: help Essen07_jann

Use with Word, Excel, LaTeX, etc.

```
Excel: csv or scsv
```

```
esta using example.csv  
<run>
```

```
esta using example.csv, scsv replace  
<run>
```

```
use the plain option if you intend to do additional  
computations in excel:
```

```
esta using example.csv, scsv replace wide plain  
<run>
```

```
Excel XML is not supported yet.
```

Stata/SE 9.2 - [Results]

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Stata Toolbar

Variables

```

Command
N          74
R-sq       0.2934          74
                           0.4996

p-values in parentheses

end of do-file

. do_example do/15.ihlp

     esta using example.csv
(output written to example.csv)

end of do-file

. do_example do/16.ihlp

     esta using example.csv, scsv replace
(output written to example.csv)

end of do-file
more

```

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Microsoft Excel - example.csv

Datei Bearbeiten Ansicht Einfügen Format Extras Datei Fenster ? Adobe PDF

Frage hier eingeben

A	B	C	D	E	F	G	H
1							
2	(1)	(2)					
3	price	price					
4							
5	weight	1.747**	3.465***				
6		(2.72)	(5.49)				
7							
8	mpg	-49.51	21.85				
9		(-0.57)	(0.29)				
10							
11	foreign		3673.1***				
12			(5.37)				
13							
14	_cons	1946.1	-5853.7				
15		(0.54)	(-1.73)				
16							
17	N	74	74				
18							
19	t statistics in parentheses						
20	* p<0.05, ** p<0.01, *** p<0.001						
21							
22							

example

Bereit

Microsoft Excel - example.csv

The screenshot shows a Microsoft Excel spreadsheet titled "example.csv". The data consists of the following rows:

	A	B	C	D	E	F	G	H
1		est1		est2				
2	weight	1.746559	2.723238	3.464706	5.493003			
3	mpg	-49.51222	-0.5746808	21.8536	0.2944391			
4	foreign			3673.06	5.370142			
5	_cons	1946.069	0.541018	-5853.696	-1.733408			
6	N	74		74				
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

example / Bereit NF

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Command: help Essen07_jann

Use with Word, Excel, LaTeX, etc.

word: rtf

esta using example.rtf
<run>

Appending is possible. Furthermore, use varwidth(#) and modelwidth(#) to change column widths:

esta using example.rtf, append wide label modelwidth(8)
<run>

example.rtf - Microsoft Word

Frage hier eingeben

Standard Times New Roman 12 F K U

150% 108 144 216 252 288 324 360 396 432 468

t-statistics in parentheses¶
*p<0.05, **p<0.01, ***p<0.001¶

¶

Seite 1 Ab 1 1/1 Bei 72.5pt Ze 1 Sp 1 MAK ÄND ERW ÜB Englisch (US)

	(1)¤	(2)¤
price¤	price¤	
weight¤	1.747**¤	3.465***¤
	(2.72)¤	(5.49)¤
mpg¤	-49.51¤	21.85¤
	(-0.57)¤	(0.29)¤
foreign¤		3673.1***¤
		(5.37)¤
_cons¤	1946.1¤	-5853.7¤
	(0.54)¤	(-1.73)¤
N¤	74¤	74¤

example.rtf - Microsoft Word

Frage hier eingeben

Standard Times New Roman 12 F K U

150% 108 144 216 252 288 324 360 396 432 468

t-statistics in parentheses¶
*p<0.05, **p<0.01, ***p<0.001¶

¶

foreign¤ 3673.1***¤
(5.37)¤

_cons¤ 1946.1¤ -5853.7¤
(0.54)¤ (-1.73)¤

N¤ 74¤ 74¤

Price¤ (1)¤ (2)¤

Weight(lbs.)¤ 1.747**¤ (2.72)¤ 3.465***¤ (5.49)¤

Mileage(mpg)¤ -49.51¤ (-0.57)¤ 21.85¤ (0.29)¤

Car-type¤

Constant¤ 1946.1¤ (0.54)¤ -5853.7¤ (-1.73)¤

Observations¤ 74¤ 74¤

t-statistics in parentheses¶
*p<0.05, **p<0.01, ***p<0.001¶

¶

Seite 1 Ab 1 1/1 Bei 72.5pt Ze 1 Sp 1 MAK ÄND ERW ÜB Englisch (US)

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Command: help Essen07_jann

Use with Word, Excel, LaTeX, etc.

LaTeX: tex

```
esta using example.tex, label nostar /*
 */ title(Regression table\label{tab1}) page
<run>

!texify.exe --pdf example.tex
winexec $AcroRd example.pdf
<run>
```

LaTeX: booktabs

```
esta using example.tex, label nostar replace booktabs /*
 */ title(Regression table\label{tab1}) page
!texify.exe --pdf example.tex
winexec $AcroRd example.pdf
<run>
```

WinEdt/MiKTeX - [D:\Home\jannb\Projekte\Stata\estimates\estout\Essen07\vortrag\example.tex]

File Edit Search Insert Document Project Tools Macros Accessories Statistik Options Window Help

example.tex

```
% 3 Apr 2007 12:12:41
\documentclass{article}
\begin{document}

\begin{table} [htbp] \centering
\caption{Regression table\label{tab1}}
\begin{tabular}{l c c}
\hline
& \multicolumn{1}{c}{(1)} & \multicolumn{1}{c}{(2)} \\ \hline
Weight (lbs.) & 1.747 & 3.465 \\
& (2.72) & (5.49) \\
[1em]
Mileage (mpg) & -49.51 & 21.85 \\
& (-0.57) & (0.29) \\
[1em]
Car type & 3673.1 & \\
& (5.37) & \\
[1em]
Constant & 1946.1 & -5853.7 \\
& (0.54) & (-1.73) \\
\hline
Observations & 74 & 74 \\
\hline\hline
\multicolumn{3}{l}{\footnotesize \textit{t} statistics in parentheses} \\
\end{tabular}
\end{table}

\end{document}
```

? A 1:1 30 Wrap Indent INS LINE Spell TeX --src <untitled project>

Adobe Reader - [example.pdf]

Datei Bearbeiten Anzeige Dokument Werkzeuge Fenster Hilfe

Seiten

Table 1: Regression table

	(1)	(2)
	Price	Price
Weight (lbs.)	1.747 (2.72)	3.465 (5.49)
Mileage (mpg)	-49.51 (-0.57)	21.85 (0.29)
Car type		3673.1 (5.37)
Constant	1946.1 (0.54)	-5853.7 (-1.73)
Observations	74	74

t statistics in parentheses

210 x 297 mm

1 von 1

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Use with Word, Excel, LaTeX, etc.

Improved LaTeX table using the *dcolumn* package:

```

\documentclass{article}
\usepackage{dcolumn}
\begin{document}
\begin{table}
\caption{Regression table}
\begin{array}{lcc}
& \text{(1)} & \text{(2)} \\
& \text{Price} & \text{Price} \\
\hline
\text{Weight (lbs.)} & 1.747^{**} & 3.465^{***} \\
& (2.72) & (5.49) \\
\text{Mileage (mpg)} & -49.51 & 21.85 \\
& (-0.57) & (0.29) \\
\text{Car type} & & 3673.1^{***} \\
& & (5.37) \\
\text{Constant} & 1946.1 & -5853.7 \\
& (0.54) & (-1.73) \\
\hline
\text{Observations} & 74 & 74
\end{array}
\end{table}
\end{document}

```

t statistics in parentheses
* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

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