```
Saturday August 10 12:34:53 2019 Page 1
. clear
    Back to Fan's Stata4Econ or other repositories:
    Back to Fan's Stata4Econ or other repositories

- http://fanwangecon.github.io

- http://fanwangecon.github.io/Stata4Econ

- http://fanwangecon.github.io/M4Econ

- http://fanwangecon.github.io/CodeDynaAsset/

- http://fanwangecon.github.io/Math4Econ/

- http://fanwangecon.github.io/Stat4Econ/

- http://fanwangecon.github.io/Tex4Econ

    Same regression for two Subgroups
    Show all1 subgroup coefficients in one regression

. ///--- Start log > set more off
. capture log close
  cd "${root_log}"
C:\Users\fan\Documents\Dropbox (UH-ECON)\Profile Paper\Paper Profile April 2016\stata
. global curlogfile "~\Stata4Econ\reglin\discrete\fs_reg_d_interact"
. log using "${curlogfile}" , replace
(note: file C:\Users\fan\Stata4Econ\reglin\discrete\fs_reg_d_interact.smcl not found)
                <unnamed>
        log:
                C:\Users\fan\Stata4Econ\reglin\discrete\fs_reg_d_interact.smcl
  log type:
                smcl
 opened on: 10 Aug 2019, 12:34:53
. log on (log already on)
. ///--- Load Data > set more off
  sysuse auto, clear
(1978 Automobile Data)
. tab rep78
      Repair
                                    Percent
Record 1978
                        Freq.
                                                       Cum.
                                       11.59
43.48
                                                      14.49
             2
                             8
             3
                           30
                                                      57.97
                                       26.09
                            18
             5
                           11
                                       15.94
                                                     100.00
       Total
                            69
                                      100.00
. tab foreign
   Car type
                        Freq.
                                    Percent
                                                       Cum.
   Domestic
                                                      70.27
     Foreign
                           22
                                       29.73
                                                     100.00
                                     100.00
       Total
. * 1. Same regression for two Subgroups
 eststo clear
. eststo, title(dom): regress weight ib3.rep78 if foreign == 0
                                                                Number of obs
                          SS
                                          df
                                                     MS
       Source
                                                                                               48
                                                                                            2.73
                                                                F(4, 43)
                                               1125414.24
        Model
                    4501656.94
                                                                Prob > F
                                                                                    =
                                                                                           0.0414
                                                                R-squared
Adj R-squared
                                                                                           0.2023
     Residual
                    17746209.7
                                          43
                                               412702.552
                                                                                           0.1281
                                                473358.865
        Total
                    22247866.7
                                                                Root MSE
                                                                                           642.42
                                                                        [95% Conf. Interval]
       weight
                         Coef.
                                   Std. Err.
                                                      t
                                                            P>|t|
         rep78
                     -342.2222
                                   470.7829
                                                  -0.73
                                                            0.471
                                                                        -1291.646
                                                                                         607.202
            2
                                                            0.734
0.718
                    -88.47222
                                   258.5983
                                                  -0.34
                                                                        -609.9855
                                                                                         433.041
                                                   0.36
                                                                         -408.662
                                   247.2673
                                                                                         588.662
             5
                    -1482.222
                                   470.7829
                                                  -3.15
                                                            0.003
                                                                        -2431.646
                                                                                        -532.798
                     3442.222
                                   123.6337
                                                  27.84
                                                            0.000
                                                                         3192.891
                                                                                        3691.553
          cons
(est1 stored)
. eststo, title(foreign): regress weight ib3.rep78 if foreign == 1
                                          df
                                                                Number of obs
                                                                F(2, 18)
                                                                                            1.58
                                               198355.556
                                                                Prob > F
R-squared
                    396711.111
                                            2
                                                                                          0.2338
        Model
                    2263555.56
     Residual
                                          18
                                                125753.086
                                                                                           0.1491
                                                                Adj R-squared
                                                                                           0.0546
        Total
                    2660266.67
                                          20 133013.333
                                                                Root MSE
                                                                                           354.62
       weight
                                  Std. Err.
                                                            P>|t|
                                                                        [95% Conf. Interval]
                         Coef.
                                                      t
         rep78
                                                                        -298.9037
-103.3482
                     197.7778
                                   236.4112
                                                    0.84
                                                            0.414
                                                                                        694.4593
             4
                     393.3333
                                   236.4112
                                                    1.66
                                                                                        890.0149
                                   204.7381
                                                            0.000
                                                                         1579.861
                          2010
                                                    9.82
                                                                                        2440.139
         cons
(est2 stored)
. esttab, mtitle title("Foreign or Domestic")
Foreign or Domestic
                            (1)
                                                (2)
                                           foreign
                           dom
1.rep78
                        -342.2
                       (-0.73)
2.rep78
                        -88.47
                       (-0.34)
3.rep78
                                                  0
                            (.)
                                                (.)
4.rep78
                         90.00
                                             197.8
                        (0.36)
                                            (0.84)
5.rep78
                       -1482.2**
                                             393.3
                                            (1.66)
                       (-3.15)
_cons
                        3442.2***
                                            2010.0***
                       (27.84)
                                            (9.82)
Ν
                             48
                                                 21
t statistics in parentheses * p<0.05, ** p<0.01, *** p<0.001
. * 2. Show all1 subgroup coefficients in one regression
. capture drop domestic
  recode foreign ///
  (0 = 1 "domestic") ///1
  (1 = 0 "foreign") ///
      (else = .) //7
      gen(domestic)
(74 differences between foreign and domestic)
. tab domestic foreign
 RECODE of
                       Car type
stic Foreign
   foreign
(Car type)
                 Domestic
                                                  Total
    foreign
```

52

52

Total

0

22

52

```
. eststo, title(both): quietly regress ///
>    weight ///
>    ib0.foreign ib0.domestic ///
>    ib3.rep78#ib0.foreign ///
>    ib3.rep78#ib0.domestic ///
>    . noc
> , noc (est1 stored)
. esttab, mtitle title("Foreign or Domestic")
Foreign or Domestic
                            (1)
both
0.foreign
                                0
                              (.)
                         2010.0***
(6.08)
1.foreign
0.domestic
                                0
                              (.)
1.domestic
                         3442.2***
                         (31.23)
                         -342.2
(-0.82)
1.rep78#0.~n
1.rep78#1.~n
                                0
                             (.)
                         -88.47
(-0.38)
2.rep78#0.~n
2.rep78#1.~n
                              (.)
3.rep78#0.~n
                                0
                              (.)
3.rep78#1.~n
                                0
                              (.)
4.rep78#0.~n
                           90.00
                          (0.41)
                          197.8
(0.52)
4.rep78#1.~n
                        -1482.2***
(-3.53)
5.rep78#0.~n
                           393.3
5.rep78#1.~n
                          (1.03)
1.rep78#0.~c
                                0
                              (.)
1.rep78#1.~c
                                0
                              (.)
2.rep78#0.~c
                                0
                              (.)
2.rep78#1.~c
                                0
                              (.)
3.rep78#0.~c
                                0
                              (.)
3.rep78#1.~c
                                0
                              (.)
4.rep78#0.~c
                                0
                              (.)
4.rep78#1.~c
                                0
                              (.)
5.rep78#0.~c
                                0
                              (.)
5.rep78#1.~c
                                0
                              (.)
                               69
Ν
t statistics in parentheses * p<0.05, ** p<0.01, *** p<0.001
* using cts for binaryeststo clear
. eststo, title(both): quietly regress ///
>    weight ///
>    c.foreign c.domestic ///
>    ib3.rep78#c.foreign ///
>    ib3.rep78#c.domestic ///
> , noc (est1 stored)
. esttab, mtitle title("Foreign or Domestic")
Foreign or Domestic
                            (1)
both
                          2010.0***
foreign
                          (6.08)
                          3442.2***
domestic
                         (31.23)
1.rep78#c.~n
                                0
                              (.)
2.rep78#c.~n
                                0
                              (.)
3.rep78#c.~n
                                0
                              (.)
                           197.8
4.rep78#c.~n
                          (0.52)
                           393.3
5.rep78#c.~n
                          (1.03)
                         -342.2
(-0.82)
1.rep78#c.~c
                         -88.47
2.rep78#c.~c
                         (-0.38)
3.rep78#c.~c
                                0
                              (.)
                           90.00
4.rep78#c.~c
                          (0.41)
5.rep78#c.~c
                        -1482.2***
                         (-3.53)
                               69
t statistics in parentheses * p<0.05, ** p<0.01, *** p<0.001
   ///\text{---}\ \text{End}\ \text{Log}\ \text{and}\ \text{to}\ \text{HTML}
. ///--- ____
> log close
                  <unnamed>
        name:
                 C:\Users\fan\Stata4Econ\reglin\discrete\fs_reg_d_interact.smcl
         log:
   log type:
 closed on: 10 Aug 2019, 12:34:53
```

Saturday August 10 12:34:53 2019 Page 2

* using factor for binaryeststo clear

```
Saturday August 10 12:34:53 2019 Page 3
. capture noisily {
. log2html "${curlogfile}", replace

HTML log file ~\Stata4Econ\reglin\discrete\fs_reg_d_interact.html created
. }

. ///--- to PDF
> capture noisily {
. translator set Results2pdf logo off
. translator set Results2pdf fontsize 8
. translator set Results2pdf pagesize custom
. translator set Results2pdf pagewidth 9
. translator set Results2pdf pagewidth 9
. translator set Results2pdf margin 0.2
. translator set Results2pdf margin 0.2
. translator set Results2pdf tmargin 0.2
. translator set Results2pdf bmargin 0.2
```