```
name:
              <unnamed>
             C:\Users\fan\Stata4Econ\reglin\multipanel\allpurpose\allpurpose.smcl
        log:
              smcl
   log type:
              1 Sep 2019, 16:17:23
  opened on:
1 . log on
  (log already on)
3 . set trace off
\mathbf{4} . set tracedepth \mathbf{1}
  7 . set more off
8 . set trace off
10. sysuse auto, clear
(1978 Automobile Data)
11.
      ///--- Controls
12.
     global quiornot "qui"
     * global quiornot "noi"
13.
      15.
      A regression has:
         1. reg method
2. LHS

    RHS (to keep)
    RHS (controls not to show in table)

         5. Conditions
         6. reg options
16.
     * rgc = regression, opt = option
global stc_rgc "reg"
17.
     global stc_opt ", robust"
19.
20.
     * sca = what scalar statistics to obtain from reg global stc_sca "r2 rank"
21.
22.
23.
     * cdn = conditioning global sif_cdn "if price !=. & foreign !=."
25.
26.
     * variable names lists global svr_lhs "price"
27.
28.
29.
     global svr_rhs "rep78"
30.
     global svr_cov "gear_ratio"
31.
     global svr_kep "${svr_rhs}"
32.
      33.
 >
     * column count, and panel count global it_col_cnt = 5
34.
35.
36.
     global it_pan_cnt = 6
37.
      38.
      global slb_col "price"
39.
40.
     global slb_pan "current panel results"
41.
     * eso = esttab options
global slb_eso "label stats(N ${stc_sca})"
43.
///--- B1. Column Specific Strings
46.
     global svr_lhs_col_3 "weight"
47.
     global sif cdn col 5 "& gear ratio <= 3"
48.
     global sif_cdn_col_3 `"& trunk != 5 & ~strpos(make, "Ford")"'
49.
     global svr_rhs_col_4 "weight"
51.
52.
     global svr rhs col 5 "turn"
53.
     global svr_kep_pan_1 "${svr_rhs_pan_1}"
55.
     global svr kep pan 4 "${svr rhs pan 4}"
56.
58.
     global svr lhs pan 3 "mpg"
59.
     global svr_lhs_pan_6 "mpg"
60.
      global sif_cdn_pan_1 "& foreign == 0"
61.
62.
      global sif_cdn_pan_2 "& foreign == 1"
63.
     global sif_cdn_pan_3 "& length >= 190"
64.
     global svr_rhs_pan_1 "mpg headroom trunk"
66.
     global svr_rhs_pan_4 "mpg"
67.
     global svr_kep_pan_1 "${svr_rhs_pan_1} ${svr_rhs_col_1} ${svr_rhs_col_5}"
68.
      global svr_kep_pan_4 "${svr_rhs_pan_4} ${svr_rhs_col_1} ${svr_rhs_col_5}"
69.
70.
71.
73.
74.
          ///--- Counters
         global it_col_ctr "`it_col_ctr'"
    global it_pan_ctr "`it_pan_ctr'"
75.
          ///--- Reset Strings to Default Always, _u = use
76.
77.
78.
         ^{\star} if there are panel or column specific values, replace, eith col or row specific
         * generates: stc_rgc_u and stc_opt_u
global stc_rgc_u"${stc_rgc}"
global stc_opt_u "${stc_opt}"
global stc_opt_u "${stc_opt}"
global svr_lhs_u "${svr_lhs}"
global st_ls_rep "stc_rgc stc_opt svr_lhs"
foreach st_seg in $st_ls_rep {
global st_seg "`st_seg"
   8.
   10.
  11.
```

```
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                          * di `"${st_seg}_pan_${it_pan_ctr}: ${${st_seg}_pan_${it_pan_ctr}}"'
* di `"${st_seg}_col_${it_col_ctr}: ${${st_seg}_col_${it_col_ctr}}"'
* di `"${st_seg}_pan_${it_pan_ctr}_col_${it_col_ctr}: ${$t_seg}_pan_${it_pan_ctr}_col_${it_col_ctr}"'
79.
80.
82.
               if ("${${st_seg}_pan_${it_pan_ctr}}" != "") {
    global_${st_seg}_u `"${${st_seg}_pan_${it_pan_ctr}}"'
83.
   13.
                   else if ("${${st_seg}_col_${it_col_ctr}}" != "") {
    global ${st_seg}_u "${${st_seg}_col_${it_col_ctr}}"'
   14.
                   else if ("${${st_seg}_pan_${it_pan_ctr}_col_${it_col_ctr}}" != "") {
    global ${st_seg}_u "${${st_seg}_pan_${it_pan_ctr}_col_${it_col_ctr}}"'
   19.
                              * di `"${st_seg}_u: ${${st_seg}_u}"'
   20.
84.
            }
   21.
             * if there are panel or column specific values, append global svr_rhs_u "${svr_rhs} ${svr_rhs_pan_${it_pan_ctr}} ${svr_rhs_col_${it_col_ctr}}" global svr_cov_u "${svr_cov} ${svr_cov_pan_${it_pan_ctr}} ${svr_cov_col_${it_col_ctr}}" global sif_cdn_u `"${sif_cdn} ${sif_cdn_pan_${it_pan_ctr}} ${sif_cdn_col_${it_col_ctr}}"'
85.
   22.
   23.
87.
             ///--- Compose Regression String
  > global srg_pan_${it_pan_ctr}_col_${it_col_ctr} `"${stc_rgc_u} ${svr_lhs_u} ${svr_rhs_u} ${svr_cov_u} ${sif_cdn_} > u} ${stc_opt_u}"'
   25.
88.
                 /--- Display Regression String
  di "PAN={$it_pan_ctr}, COL={$it_col_ctr}"
  di `"${srg_pan_${it_pan_ctr}_col_${it_col_ctr}}"'
   26.
   27.
89.
   28.
  PAN=\{1\}, COL=\{1\} reg price rep78 mpg headroom trunk gear_ratio if price !=. & foreign !=. & foreign == 0 , robust
  \mathtt{PAN=\{\,1\,\}\,,\ COL=\{\,2\,\}}
  reg price rep78 mpg headroom trunk gear_ratio if price !=. & foreign !=. & foreign == 0 , robust PAN={1}, COL={3}
  reg weight rep78 mpg headroom trunk gear_ratio if price !=. & foreign !=. & foreign == 0 & trunk != 5 & ~strpos(make, "F
  > ord") , robust PAN={1}, COL={4}
  reg price rep78 mpg headroom trunk weight gear_ratio if price !=. & foreign !=. & foreign == 0 , robust PAN={1}, COL={5} reg price rep78 mpg headroom trunk turn gear_ratio if price !=. & foreign !=. & foreign == 0 & gear_ratio <= 3 , robust
  PAN=\{2\}, COL=\{1\}
  reg price rep78
PAN={2}, COL={2}
                          gear\_ratio if price !=. & foreign !=. & foreign == 1 , robust
  reg price rep78
PAN={2}, COL={3}
reg weight rep78
                         gear ratio if price !=. & foreign !=. & foreign == 1 , robust
                          gear_ratio if price !=. & foreign !=. & foreign == 1 & trunk != 5 & ~strpos(make, "Ford") , robust
  PAN={2}, COL={4}
  reg price rep78
PAN={2}, COL={5}
                       weight gear_ratio if price !=. & foreign !=. & foreign == 1 , robust
  reg price rep78
PAN={3}, COL={1}
reg mpg rep78
                       turn gear_ratio if price !=. & foreign !=. & foreign == 1 & gear_ratio <= 3 , robust
                       gear ratio if price !=. & foreign !=. & length >= 190 , robust
  PAN=\{\overline{3}\}, COL=\{2\}
  reg mpg rep78
PAN={3}, COL={3}
                       <code>gear_ratio</code> if price !=. & foreign !=. & length >= 190 , robust
  reg mpg rep78
                       gear_ratio if price !=. & foreign !=. & length >= 190 & trunk != 5 & ~strpos(make, "Ford") , robust
  PAN={3}, COL={4}
reg mpg rep78 w
                     weight gear ratio if price !=. & foreign !=. & length >= 190 , robust
  PAN={3}, COL={5}
  reg mpg rep78 t
PAN={4}, COL={1}
                     turn gear_ratio if price !=. & foreign !=. & length >= 190 & gear ratio <= 3 , robust
  reg price rep78 mpg gear_ratio if price !=. & foreign !=. , robust PAN={4}, COL={2}
reg price rep78 mpg gear_ratio if price !=. & foreign !=. , robust
  PAN={4}, COL={3}
  reg weight rep78 mpg gear_ratio if price !=. & foreign !=. & trunk != 5 & ~strpos(make, "Ford") , robust
  PAN={4}, COL={4}
  reg price rep78 mpg weight gear_ratio if price !=. & foreign !=. , robust PAN=\{4\}, COL=\{5\} reg price rep78 mpg turn gear_ratio if price !=. & foreign !=. & gear_ratio <= 3 , robust
  PAN={5}, COL={1}
  reg price rep78
PAN={5}, COL={2}
                         gear_ratio if price !=. & foreign !=. , robust
  reg price rep78
PAN={5}, COL={3}
reg weight rep78
                         gear_ratio if price !=. & foreign !=. , robust
                          gear_ratio if price !=. & foreign !=. & trunk != 5 & ~strpos(make, "Ford") , robust
  PAN={5}, COL={4}
  reg price rep78
PAN={5}, COL={5}
                       weight gear_ratio if price !=. & foreign !=. , robust
  reg price rep78
PAN={6}, COL={1}
reg mpg rep78
                       turn gear_ratio if price !=. & foreign !=. & gear_ratio <= 3 , robust
                       gear_ratio if price !=. & foreign !=. , robust
  PAN=\{\bar{6}\}, COL=\{2\}
  reg mpg rep78
PAN={6}, COL={3}
                       gear_ratio if price !=. & foreign !=. , robust
  reg mpg rep78
                        gear_ratio if price !=. & foreign !=. & trunk != 5 & ~strpos(make, "Ford") , robust
  PAN=\{6\}, COL=\{4\}
  reg mpg rep78
                     weight gear_ratio if price !=. & foreign !=. , robust
  PAN={6}, COL={5}
  reg mpg rep78 turn gear_ratio if price !=. & foreign !=. & gear_ratio <= 3 , robust
eststo clear
92.
93.
               global it reg ctr = 0
94.
                ///--- Loop over panels
foreach it_pan_ctr of numlist 1(1)$it_pan_cnt {
95.
                          ///--- Counters
96.
                          global it pan ctr "`it pan ctr'"
     3.
                          ///--- Model Store Name
global st_cur_sm_stor "smd_${it_pan_ctr}_m"
    global ${st_cur_sm_stor} ""
97.
98.
                           ///--- Loop over regression columns
                          foreach it_col_ctr of numlist 1(1)$it_col_cnt {
  >
    6.
                                     ///--- Counters
99.
                                     global it_col_ctr "`it_col_ctr'"
  >
     7.
                                     global it_reg_ctr = ${it_reg_ctr} + 1
    global st_cur_srg_name "srg_pan_${it_pan_ctr}_col_${it_col_ctr}"
100
     8.
101
                                       //--- Regression String Name
                                     di "PAN={$it pan_ctr}, COL={$it_col_ctr}, ${st_cur_srg_name}"
    di `"${${st_cur_srg_name}}"'
   10.
   11.
                                     ///--- Reset Strings to Default Always global slb_col_u "${slb_col}"
102
   12.
                                     ///--- Regress
103
                                     capture $quiornot {
   13.
                                                   eststo m${it_reg_ctr}, title("${slb_col_u}") : ${$st_cur_srg_name}
   14.
    15.
                                         if rc!=0 {
                                                    ^{\circ}///--- This means this this regression failed, proceed with empty col
                                                * Generate a fake observation to create a new estimated model
                                                  Then replace the observation N by setting it to 0, otherwise N = 1
104
                                                capture drop aaa
gen aaa = 0 if _n == 1
   17.
                                                    18.
   19.
                                                   estadd scalar N = 0, replace
   20.
                                         }
                                     ///--- Estadd Controls
106
                                     foreach st_scalar_name in $stc_sca {
          estadd local ${st_scalar_name} e(${st_scalar_name})
107 //
108 //
109
                                     ///--- Track Regression Store global st_cur_sm_stor "${s_cur_sm_stor} mfit_reg_ctr}"
   22.
  PAN={1}, COL={1}, srg_pan_1_col_1
  reg price rep78 mpg headroom trunk gear_ratio if price !=. & foreign !=. & foreign == 0 , robust PAN={1}, COL={2}, srg_pan_1_col_2
  reg price rep78 mpg headroom trunk
                                                 gear_ratio if price !=. & foreign !=. & foreign == 0 , robust
  PAN={1}, COL={3}, srg pan \frac{1}{2} col \frac{3}{2} reg weight rep78 mpg headroom trunk gear_ratio if price !=. & foreign !=. & foreign == 0 & trunk != 5 & ~strpos(make, "F
  > ord"), robust PAN={1}, COL={4}, srg_pan_1_col_4 reg price rep78 mpg headroom trunk weight gear_ratio if price !=. & foreign !=. & foreign == 0 , robust
  PAN={1}, COL={5}, srg_pan_1_col_5
  reg price rep78 mpg headroom trunk turn gear_ratio if price !=. & foreign !=. & foreign == 0 & gear_ratio <= 3 , robust PAN={2}, COL={1}, srg pan_2_col_1 reg price rep78 gear_ratio if price !=. & foreign !=. & foreign == 1 , robust PAN={2}, COL={2}, srg_pan_2_col_2 reg price rep78 gear_ratio if price !=. & foreign !=. & foreign == 1 , robust PAN={2}, COL={2}, srg_pan_2_col_2 reg price rep78 gear_ratio if price !=. & foreign !=. & foreign == 1 , robust
  PAN={2}, COL={3}, srg_pan_2_col_3
  reg weight rep78 gear_ratio i
PAN={2}, COL={4}, srg_pan_2_col_4
                                             if price !=. & foreign !=. & foreign == 1 & trunk != 5 & \simstrpos(make, "Ford") , robust
  reg price rep78 weight gear_ratio
                                                  if price !=. & foreign !=. & foreign == 1 , robust
```

```
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   PAN={2}, COL={5}, srg_pan_2_col_5 reg price rep78 turn gear_ratio (73 missing values generated)
                                                             if price !=. & foreign !=. & foreign == 1 & gear ratio <= 3 , robust
   Summary statistics: count for variables: aaa
                              e(count)
                   aaa
   added scalar:
                                  e(N) = 0
   PAN={3}, COL={1}, srg_pan_3_col_1 reg mpg rep78 gear_ratio if p
                                                 if price !=. & foreign !=. & length >= 190 , robust
   PAN={3}, COL={2}, srg_pan_3_col_2
   reg mpg rep78 turn gear_ratio :
PAN={4}, COL={1}, srg_pan_4_col_1
                                                            if price !=. & foreign !=. & length >= 190 & gear ratio <= 3 , robust
                                                             if price !=. & foreign !=.
    reg price rep78 mpg gear_ratio
                                                                                                               , robust
   PAN={4}, COL={2}, srg_pan_4_col_2
reg price rep78 mpg gear_ratio
                                                            if price !=. & foreign !=.
                                                                                                               , robust
   PAN={4}, COL={3}, srg_pan_4_col_3
   reg weight rep78 mpg gear_ratio
PAN={4}, COL={4}, srg_pan_4_col_4
                                                              if price !=. & foreign !=. & trunk != 5 & ~strpos(make, "Ford") , robust
                                                                                                                         , robust
    reg price rep78 mpg weight gear_ratio if price !=. & foreign !=.
   PAN={4}, COL={5}, srg_pan_4_col_5
reg price rep78 mpg turn gear_ratio
                                                                  if price !=. & foreign !=. & gear_ratio <= 3 , robust
   PAN={5}, COL={1}, srg_pan_5_col_1
   reg price rep78 gear_ratio if
PAN={5}, COL={2}, srg_pan_5_col_2
                                                                                                         , robust
                                                        if price !=. & foreign !=.
   reg price rep78 gear_ratio if price !=. & foreign !=. , robust PAN={5}, COL={3}, srg_pan_5_col_3 reg weight rep78 gear_ratio if price !=. & foreign !=. & trunk != 5 & ~strpos(make, "Ford") , robust
   PAN={5}, COL={4}, srg_pan_5_col_4
   reg price rep78 weight gear_ratio
PAN={5}, COL={5}, srg_pan_5_col_5
reg price rep78 turn gear_ratio
                                                                 if price !=. & foreign !=. , robust
                                                              if price !=. & foreign !=. & gear_ratio <= 3 , robust
   PAN={6}, COL={1}, srg_pan_6_col_1
reg mpg rep78 gear_ratio if price !=. & foreign !=.
                                                                                                      , robust
   PAN={6}, COL={2}, srg_pan_6_col_2
   reg mpg rep78 gear_ratio if price !=. & foreign !=. PAN={6}, COL={3}, srg_pan_6_col_3
                                                                                                      , robust
   reg mpg rep78 gear_ratio if pr
PAN={6}, COL={4}, srg_pan_6_col_4
reg mpg rep78 weight gear_ratio
                                                    if price !=. & foreign !=. & trunk != 5 & ~strpos(make, "Ford") , robust
                                                              if price !=. & foreign !=.
                                                                                                               , robust
   PAN={6}, COL={5}, srg_pan_6_col_5
   reg mpg rep78 turn gear_ratio if price !=. & foreign !=. & gear_ratio <= 3 , robust
    di "${${st_cur_sm_stor}}"
m26 m27 m28 m29 m30
112
113
                     ///--- Regression Panel String list
                    2.
      4.
                         }
   smd_2m
smd_3m
   smd 5 m
   smd 6 m
foreach it_pan_ctr of numlist 1(1)$it_pan_cnt {
117
                                  global it_pan_ctr "`it_pan_ctr'"
118
                                  global slb_pan_u "${slb_pan}"
   global slb_eso_u "${slb_eso}"
119
       4.
120
                                  global svr_kep_u "${svr_kep} ${svr_kep_pan_${it_pan_ctr}}"
      6.
                                   \begin{tabular}{ll} \begin{tabular}{ll} di `"esttab $\{smd_$\{it\_pan\_ctr\}_m\}, title("$\{slb\_pan\_u\}") & eep($\{svr\_kep\_u\}) order($\{svr\_kep\_u\}) $\{slb\_es order(stabular), stabular) & extra order(stabular) & extra order(stabula
   > o_u}"'
                                        \texttt{esttab \$\{smd\_\$\{it\_pan\_ctr\}\_m\}, title("\$\{slb\_pan\_u\}") keep(\$\{svr\_kep\_u\}) order(\$\{svr\_kep\_u\}) \$\{slb\_eso\_u\} } 
      8.
122
   esttab m1 m2 m3 m4 m5, title("current panel results") keep(rep78 mpg headroom trunk turn) order(rep78 mpg headroom trunk
       turn) label stats(N r2 rank)
   current panel results
                                                       (1)
                                                                                  (2)
                                                                                                                                         (4)
                                                                                                              (3)
                                                                                                                                                                     (5)
                                                                                                     Weigh .. )
                                                                                                                                      Price
                                                   Price
                                                                               Price
                                                                                                                                                                 Price
   Repair Record 1978
                                                                               369.8
                                                   369.8
                                                                                                          45.50
                                                                                                                                     279.8
                                                                                                                                                                 271.9
                                                  (0.98)
                                                                                                         (1.11)
                                                                                                                                     (0.76)
                                                                             (0.98)
                                                   -213.9
                                                                              -213.9
                                                                                                         -97.73***
                                                                                                                                      156.3
                                                                                                                                                                 -163.3
   Mileage (mpg)
                                                (-1.88)
                                                                            (-1.88)
                                                                                                       (-6.30)
                                                                                                                                    (0.83)
                                                   -498.4
                                                                             -498.4
                                                                                                         -80.08
                                                                                                                                     -320.1
                                                                                                                                                                -501.3
   Headroom (in.)
                                                                                                                                     0.99)
                                                                                                                                                              (-0.87)
                                                 (-1.24
                                                                              -1.24
                                                                                                          26.71
   Trunk space (.. ft.)
                                                   35.43
                                                                               35.43
                                                                                                                                     -74.57
                                                                                                                                                                 34.19
                                                  (0.26)
                                                                                                                                                                (0.20)
   Turn Circle (ft.)
                                                                                                                                                                 120.8
   Ν
                                                                                                                                                                      37
                                                        48
                                                                                    48
                                                                                                                                           48
   r2
                                                   0.432
                                                                                                          0.803
                                                                                                                                      0.562
   rank
   t statistics in parentheses
      p<0.05, ** p<0.01, *** p<0.001
   esttab m6 m7 m8 m9 m10, title("current panel results") keep(rep78 ) order(rep78 ) label stats(N r2 rank)
   current panel results
                                                       (1)
                                                                                                              (3)
                                                                                                                                                                     (5)
                                                   Price
                                                                               Price
                                                                                                     Weigh..)
                                                                                                                                     Price
                                                   182.2
                                                                               182.2
                                                                                                          50.78
                                                                                                                                    -356.9
   Repair Record 1978
                                                  (0.31)
                                                                              (0.31)
                                                                                                         (0.74)
                                                                                                                                   (-0.99)
                                                                                                                                           21
                                                                                                                                                                        0
                                                                                                                                      0.735
   r2
                                                  0.0891
                                                                             0.0891
                                                                                                          0.400
                                                                                                                                                                        0
   rank
                                                          3
                                                                                     3
                                                                                                                 3
                                                                                                                                            4
   t statistics in parentheses * p<0.05, ** p<0.01, *** p<0.001 esttab m11 m12 m13 m14 m15, title("current panel results") keep(rep78 ) order(rep78 ) label stats(N r2 rank)
```

current panel results

Repair Record 1978

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

current panel results

Repair Record 1978

Mileage (mpg)

Ν

r2

> ank)

Mileage (m~)

-0.297

0.174

(1)

774.6**

-210.6**

Price

(3.08)

(-2.93)

(-0.64)

p<0.001

(2)

-0.297

0.174

Price

(3.08)

(-2.93)

-210.6**

774.6**

(-0.64)

Mileage (m~)

-0.297

36

0.174

esttab m16 m17 m18 m19 m20, title("current panel results") keep(rep78 mpg turn) order(rep78 mpg turn) label stats(N r2 r

Weigh..)

-6.772

(-0.12)

(-4.20)

(3)

-63.16***

(-0.64)

Mileage (m~)

(5)

31

0.431

Price

(1.18)

-250.6

(-1.28)

-0.935

(-1.62)

Mileage (m~)

Mileage (m~)

-0.0521

(-0.12)

36

0.503

Price

(2.99)

-53.45

(-0.61)

795.5**

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Turn Circle (ft.)					12.54 (0.07)	
N	69	69	66	69	38	
r2	0.275	0.275	0.774	0.367	0.383	
rank	4	4	4	5	5	

t statistics in parentheses * p<0.05, ** p<0.01, *** p<0.001 esttab m21 m22 m23 m24 m25, title("current panel results") keep(rep78) order(rep78) label stats(N r2 rank)

	(1)	(2)	(3)	(4)	(5)
	Price	Price	Weigh)	Price	Price
Repair Record 1978	575.2*	575.2*	-62.11	766.4**	768.2
	(2.07)	(2.07)	(-0.84)	(2.90)	(1.31)
N	69	69	66	69	38
r2	0.176	0.176	0.648	0.363	0.331
rank	3	3	3	4	4

t statistics in parentheses * p<0.05, ** p<0.01, *** p<0.001 esttab $m26 \ m27 \ m28 \ m29 \ m30$, title("current panel results") keep(rep78) order(rep78) label stats(N r2 rank)

current panel results

	(1)	(2)	(3)	(4)	(5)
	Mileage (m~)				
Repair Record 1978	0.947	0.947	0.876	0.544	-0.615
	(1.31)	(1.31)	(1.20)	(1.00)	(-0.64)
N	69	69	66	69	38
r2	0.452	0.452	0.448	0.657	0.498
rank	3	3	3	4	4

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

> 125 ///--- End Log and to HTML
> log close
 name: <unnamed>
 log: C:\Users\fan\Stata4Econ\reglin\multipanel\allpurpose\allpurpose.smcl

log type: smcl closed on: 1 Sep 2019, 16:17:24 closed on: