

name: <unnamed>
log: \Client\C\$\Users\Pavel\Dropbox\Dissertation\Book\Ch_X\\Docs\Tabl

> es\rp_panel_regs.txt log type: text opened on: 23 Oct 2018, 00:57:52

variable name	_	display format	value label	variable label
CODE		%10.0g		CODE
DATE	int	%td		DATE
log_VIX		%9.0g		
FFR	double	%10.0g		FFR
SPX	double	%10.0g		SPX
USTP5	double	%10.0g		USTP5
USTP10	double	%10.0g		USTP10
OIL	double	%10.0g		OIL
CCY	double	%10.0g		CCY
RFX	double	%10.0g		RFX
STX	double	%10.0g		STX
INF	double	%10.0g		INF
UNE	double	%10.0g		UNE
IP	double	%10.0g		IP

3 . summarize \$x1

Variable	Obs	Mean	Std. Dev.	Min	Max
log_VIX	2,483	2.894903	.3693782	2.252344	4.09251
FFR	2,483	1.311365	1.828238	.04	6.86
SPX	2,483	1550.613	477.2243	735.09	2823.81
USTP5	2,483	1.020889	.7419465	43383	2.734
USTP10	2,483	1.940867	1.163711	01986	4.3777
OIL	2,483	70.87143	25.13274	19.44	140
CCY	2,483	1117.606	2882.706	1.1639	14651
RFX	2,468	.1593132	3.509818	-18.1444	20.1684
STX	2,483	18367.02	22110.73	358.232	119528.8
INF	2,327	4.394706	3.176369	-4.4	18.4
UNE	2,092	7.663657	5.253805	.39	27.7
IP	2,164	3.08994	6.888063	-28.7	38.76

^{4 . *}if (\$id != 223) & (\$id != 534) & (\$id != 548) & (\$id != 964) & (\$t < tq(201 > 5q4))
5 . correlate \$x1 (obs=1,752)

!	log_VIX	FFR	SPX	USTP5	USTP10	OIL	CCY
log_VIX FFR SPX USTP5 USTP10	1.0000 -0.1049 -0.6472 0.3817 0.5130 0.0699	1.0000 -0.1474 -0.5060 -0.4464 -0.1351	1.0000 -0.3433 -0.5729 -0.3464	1.0000 0.9276 0.2393	1.0000	1.0000	
CCY	-0.0498	-0.0342	0.0786	-0.0272	-0.0461	-0.0426	1.0000
RFX STX INF	0.1931 -0.0991 0.2038	-0.0684 -0.0875 0.1588	-0.0119 0.1515 -0.2351	0.0448 -0.0490 0.0264	0.0422 -0.0634 0.0950	-0.0198 0.0384 0.1189	0.0098 -0.2399 0.0284
UNE IP	0.1074 -0.1588	-0.0937 0.2707	-0.0993 -0.0050	0.1025 -0.1338	0.1301 -0.1141	0.1004 0.0839	-0.0728 0.0474

```
| RFX STX INF UNE IP
        RFX | 1.0000
STX | 0.0282 1.0000
INF | 0.0598 0.2748 1.0000
UNE | 0.0057 0.3932 0.3025 1.0000
IP | 0.0212 -0.0221 -0.0387 -0.1021 1.0000
6 .
7 . * Set data as panel data
9 . xtset $id $t
        panel variable: CODE (unbalanced)
time variable: DATE, 31-Jan-00 to 29-Mar-18, but with gaps
delta: 1 day
10. *xtdescribe
11. *xtsum $id $t $x1
12.
13. xtreq $x21 $x5, fe vce(robust)
                                                 Number of obs = 2,483
Number of groups = 15
  Fixed-effects (within) regression
  Group variable: CODE
  R-sq:
                                                 Obs per group:
                                                              min = 136
avg = 165.5
      within = 0.0809
                                                    min =
      between = 0.0012
      overall = 0.0677
                                                              max =
                                                                          219
                                                 F(4,14)
                                                                          3.28
                                                r(4,14) = 3.28

Prob > F = 0.0427
  corr(u i, Xb) = -0.0004
                                  (Std. Err. adjusted for 15 clusters in CODE)
              Coef. Std. Err.
         TP5
                                           t P>|t|
                                                          [95% Conf. Interval]
      _____<del>_</del>____
      sigma u | .5702115
  sigma_e | 1.1251116
rho | .20436055 (fraction of variance due to u_i)
14. xtreg $x21 $x61, fe vce(robust)
                                                Number of obs = 2,483
Number of groups = 15
  Fixed-effects (within) regression
  Group variable: CODE
  R-sq:
                                                 Obs per group:
                                                              avg = 136
avg = 165.5
max =
      within = 0.1262
      between = 0.0010
      overall = 0.1041
                                                 F(5,14) = 16.00

Prob > F = 0.0000
  corr(u i, Xb) = -0.0062
```

		(Std.	Err. ac	djusted f	or 15 clusters	s in CODE)
TP5	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
SPX OIL _cons	0240167 .4991515 0002763 .0025163	.0634391 .000287	7.87 -0.96 1.25	0.000 0.352 0.233	-1.005414 188917 .3630883 0008917 0018152 -1.36211	.6352148 .0003392 .0068478
sigma u	.57207434 1.097263	(fraction c	of variar	nce due t	o u_i)	
15. xtreg \$x21 \$	\$x7, fe vce(ro	obust)				
Fixed-effects Group variable		ression			of obs = of groups =	
R-sq: within = between = overall =	= 0.0814			Obs per	group: min = avg = max =	117.1
corr(u_i, Xb)	= -0.7697			F(5,14) Prob >		1.91 0.1559
		(Std.	Err. ac	djusted f	or 15 cluster	s in CODE)
TP5	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
CCY STX INF UNE IP _cons	.0000103 096214 .1533229 0047477	.0000681 6.03e-06 .0533386 .100323 .0079093 .860283	-1.80 1.53 -0.60	0.093 0.149	0002243 -2.67e-06 2106139 0618485 0217115 -2.155172	.0181858
sigma_u sigma_e rho	.96984833 .97600743 .49683479	(fraction c	of variar	nce due t	o u_i)	
16. xtreg \$x21 \$	\$x3, fe vce(ro	obust)				
Fixed-effects Group variable		ression			of obs = of groups =	1,757 15
R-sq: within = between = overall =	= 0.0263			Obs per	group: min = avg = max =	117.1
corr(u_i, Xb)	= -0.6682			F(9,14) Prob >	= F =	22.71 0.0000
(Std. Err. adjusted for 15 clusters in CODE)						
TP5	 Coef. +	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
log_VIX FFR SPX OIL CCY STX	.2991811 0613217 0007633 .0010736 .0001234 .0000317	1270625	2.17 -0.77 -3.53 0.57 1.57 2.54	0.048 0.454 0.003 0.576 0.139 0.023	.003281 2321723 0012272 0029461 0000454 4.96e-06 2367372	.5950812 .1095289 0002995 .0050934 .0002923

UNE IP _cons		.0085486		0.800	1103486 0205397 -1.494169	.2479193 .01613 2.091529				
sigma_u sigma_e rho	.949729 .91061535 .52101566	(fraction	of varian	ice due t	o u_i)					
17. xtreg \$x21 \$x41, fe vce(robust)										
Fixed-effects Group variable		ression			of obs = of groups =	1,757 15				
R-sq: within = between = overall =	= 0.0714			Obs per	<pre>group: min = avg = max =</pre>	117.1				
corr(u_i, Xb)	= -0.5698			F(8,14) Prob >						
		(Std	Err. ad	ljusted f	or 15 cluster	s in CODE)				
TP5		Robust Std. Err.	t	P> t	[95% Conf.	Interval]				
FFR USTP5 CCY STX INF UNE	.4819921 .1354082 .7539425 0000231 .0000247 1353405 .0722382 .0003481	.1914983 .0793482 .0796888 .0000314 8.41e-06 .0401342 .0710484 .006783	9.46 -0.74 2.94 -3.37 1.02 0.05	0.000 0.473 0.011 0.005 0.327 0.960	6.66e-06 2214198 0801455	.924858 .0000442 .0000427 0492612				
sigma_u sigma_e rho	.82720158 .86402412									
	.47823762	(fraction	of varian	ice due t	o u_i)					
18. xtreg \$x21	.47823762 	(fraction	of varian	ice due t	o u_i) 					
	.47823762 \$x43, fe vce(1	(fraction of the control of the cont	of varian	Number	o u_i) of obs = of groups =					
18. xtreg \$x21 Fixed-effects	3x43, fe vce(1 (within) regine: CODE = 0.2842 = 0.0697	(fraction of the control of the cont	of varian	Number	of obs = of groups =	63 116.8				
18. xtreg \$x21 : Fixed-effects Group variable R-sq: within between :	<pre>1 .47823762</pre>	(fraction of the control of the cont	of varian	Number Number Obs per	of obs = of groups = group: min = avg = max = =	63 116.8 218 51.11				
Fixed-effects Group variable R-sq: within between coverall	<pre>1 .47823762</pre>	(fraction cobust)		Number Number Obs per F(8,14) Prob >	of obs = of groups = group: min = avg = max = =	63 116.8 218 51.11 0.0000				
Fixed-effects Group variable R-sq: within between coverall	.47823762 	(fraction cobust)	. Err. ac	Number Number Obs per F(8,14) Prob > Sijusted form	of obs = of groups = group: min = avg = max = F =	63 116.8 218 51.11 0.0000 s in CODE)				
18. xtreg \$x21 : Fixed-effects Group variable R-sq: within between overall : corr(u_i, Xb) TP5 log_VIX FFR USTP5 RFX STX INF UNE IP _cons	.47823762 .47823762 .47823762 .47823762 .4843, fe vce(note	(fraction cobust) ression (Std	. Err. ac t 2.52 1.68 9.36 -1.35 2.88 -3.40 0.99 0.17	Number Number Number Number Obs per F(8,14) Prob >	of obs = of groups = group: min = avg = max = = F = or 15 cluster	15 63 116.8 218 51.11 0.0000 s in CODE) Interval] 977553 .2966015 .9213116 .0088127 .0004310503488 .2147118 .015475				

	rho	.4618525	(fraction o	of varian	ce due t	co u_i)	
19 20		\$x5, fe vce(ro	bust)				
	Fixed-effects Group variable	(within) regr	ession			of obs = of groups =	2,483 15
	R-sq: within = between = overall =	= 0.0002			Obs per	min = avg = max =	136 165.5 219
	corr(u_i, Xb)	= -0.0026			F(4,14) Prob >	F =	7.84 0.0016
			(Std.	Err. ad	justed :	for 15 cluster:	s in CODE)
	TP10	 Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
	log_VIX FFR SPX OIL _cons	1980929 0008367 0000499	.0003218 .0020177	-2.60 -0.02	0.021 0.981	6846195 3630475 0015269 0043773 2973359	.7267195 0331384 0001464 .0042776 5.797214
		.77721424 1.1813005 .30210155	(fraction o	of varian	ce due t	co u_i)	
21	v+roa \$v22 (\$x62, fe vce(r					
	-	(within) regr				of obs = of groups =	
	R-sq: within = between = overall =	= 0.0002			Obs per	min = avg = max =	
	corr(u_i, Xb)	= -0.0064			F(5,14) Prob >	= F =	
			(Std	Err. ad	justed :	for 15 cluster:	s in CODE)
	TP10	 Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
	log_VIX FFR USTP10 SPX OIL _cons	1954426 .0090244 .545576 0001276 0020091 1.085557	.3166296 .0839797 .0634264 .0003243 .002088 1.419158	-0.62 0.11 8.60 -0.39 -0.96 0.76	0.547 0.916 0.000 0.700 0.352 0.457	8745456 1710942 .40954 0008231 0064875 -1.958234	.4836604 .189143 .6816121 .0005679 .0024692 4.129348
	sigma_u sigma_e rho	.7777608 1.1272505 .32251549	(fraction o	of varian	ce due t	co u_i)	

sigma_u | 1.0936859 sigma_e | .91452881 rho | .58850769 (fraction of variance due to u_i)