



```

1 . xtset no year

Panel variable: no (strongly balanced)
Time variable: year, 2010 to 2019
Delta: 1 unit

2 . gen fdilog=log(fdi)
(1 missing value generated)

3 . gen gdplog=log(gdp)

4 . gen tslog=log(ts)
(1 missing value generated)

5 . gen psilog=log(psi)
(49 missing values generated)

6 . reg fdilog gdplog psilog to infdef nrr citr
    
```

Source	SS	df	MS	Number of obs	=	50
Model	153.691904	6	25.6153174	F(6, 43)	=	303.20
Residual	3.63283367	43	.084484504	Prob > F	=	0.0000
				R-squared	=	0.9769
				Adj R-squared	=	0.9737
Total	157.324738	49	3.21070894	Root MSE	=	.29066

fdilog	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
gdplog	.7277845	.0497239	14.64	0.000	.6275067	.8280623
psilog	.0543666	.0435073	1.25	0.218	-.0333742	.1421074
to	.4864384	.1057494	4.60	0.000	.2731745	.6997023
infdef	.0224132	.0058963	3.80	0.000	.0105222	.0343041
nrr	-.0596699	.0069204	-8.62	0.000	-.0736262	-.0457136
citr	-3.374277	2.708122	-1.25	0.220	-8.835725	2.087171
_cons	4.508414	.9704716	4.65	0.000	2.551271	6.465556

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7 . predict resid, r
(50 missing values generated)
    
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8 . sktest resid
    
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Skewness and kurtosis tests for normality

Variable	Obs	Pr(skewness)	Pr(kurtosis)	Joint test	
				Adj chi2(2)	Prob>chi2
resid	50	0.6400	0.1035	3.04	0.2192

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9 . hettest
    
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Breusch-Pagan/Cook-Weisberg test for heteroskedasticity
 Assumption: Normal error terms
 Variable: Fitted values of **fdilog**

H0: Constant variance

chi2(1) = 3.22
 Prob > chi2 = 0.0729

10 . vif

Variable	VIF	1/VIF
to	6.59	0.151781
citr	3.92	0.254970
gdplog	3.06	0.326383
nrr	1.86	0.536531
psilog	1.75	0.570864
infdef	1.28	0.779799
Mean VIF	3.08	

11 . xtserial fdilog gdplog psilog to infdef nrr citr

Wooldridge test for autocorrelation in panel data

H0: no first-order autocorrelation

F(1, 5) = 2.916
 Prob > F = 0.1484

12 . reg fdilog gdplog psilog to infdef nrr citr

Source	SS	df	MS	Number of obs	=	50
Model	153.691904	6	25.6153174	F(6, 43)	=	303.20
Residual	3.63283367	43	.084484504	Prob > F	=	0.0000
Total	157.324738	49	3.21070894	R-squared	=	0.9769
				Adj R-squared	=	0.9737
				Root MSE	=	.29066

fdilog	Coefficient	Std. err.	t	P> t	[95% conf. interval]
gdplog	.7277845	.0497239	14.64	0.000	.6275067 .8280623
psilog	.0543666	.0435073	1.25	0.218	-.0333742 .1421074
to	.4864384	.1057494	4.60	0.000	.2731745 .6997023
infdef	.0224132	.0058963	3.80	0.000	.0105222 .0343041
nrr	-.0596699	.0069204	-8.62	0.000	-.0736262 -.0457136
citr	-3.374277	2.708122	-1.25	0.220	-8.835725 2.087171
_cons	4.508414	.9704716	4.65	0.000	2.551271 6.465556

13 . estimates store pooled

14 . xtreg fdilog gdplog psilog to infdef nrr citr, re

Random-effects GLS regression Number of obs = 50
 Group variable: no Number of groups = 6

R-squared: Obs per group:
 Within = 0.2487 min = 5
 Between = 0.9991 avg = 8.3
 Overall = 0.9769 max = 10

corr(u_i, X) = 0 (assumed) Wald chi2(6) = 1819.17
 Prob > chi2 = 0.0000

fdilog	Coefficient	Std. err.	z	P> z	[95% conf. interval]
gdplog	.7277845	.0497239	14.64	0.000	.6303274 .8252415
psilog	.0543666	.0435073	1.25	0.211	-.0309061 .1396394
to	.4864384	.1057494	4.60	0.000	.2791735 .6937033
infdef	.0224132	.0058963	3.80	0.000	.0108567 .0339696
nrr	-.0596699	.0069204	-8.62	0.000	-.0732336 -.0461062
citr	-3.374277	2.708122	-1.25	0.213	-8.682098 1.933544
_cons	4.508414	.9704716	4.65	0.000	2.606324 6.410503
sigma_u	0				
sigma_e	.2256546				
rho	0	(fraction of variance due to u_i)			

15 . estimates store re

16 . xttest0

Breusch and Pagan Lagrangian multiplier test for random effects

$$fdilog[no,t] = Xb + u[no] + e[no,t]$$

Estimated results:

	Var	SD = sqrt(Var)
fdilog	3.210709	1.791845
e	.05092	.2256546
u	0	0

Test: Var(u) = 0

chibar2(01) = 0.00
 Prob > chibar2 = 1.0000

17 . reg fdilog gdplog psilog to infdef nrr citr

Source	SS	df	MS	Number of obs =	50
Model	153.691904	6	25.6153174	F(6, 43) =	303.20
Residual	3.63283367	43	.084484504	Prob > F =	0.0000
Total	157.324738	49	3.21070894	R-squared =	0.9769
				Adj R-squared =	0.9737
				Root MSE =	.29066

fdilog	Coefficient	Std. err.	t	P> t	[95% conf. interval]
gdplog	.7277845	.0497239	14.64	0.000	.6275067 .8280623
psilog	.0543666	.0435073	1.25	0.218	-.0333742 .1421074
to	.4864384	.1057494	4.60	0.000	.2731745 .6997023
infdef	.0224132	.0058963	3.80	0.000	.0105222 .0343041
nrr	-.0596699	.0069204	-8.62	0.000	-.0736262 -.0457136
citr	-3.374277	2.708122	-1.25	0.220	-8.835725 2.087171
_cons	4.508414	.9704716	4.65	0.000	2.551271 6.465556

18 . estimates store pooled

19 . xtreg fdilog gdplog psilog to infdef nrr citr, fe

Fixed-effects (within) regression
 Group variable: no
 Number of obs = 50
 Number of groups = 6

R-squared:
 Within = 0.5758
 Between = 0.8448
 Overall = 0.8421
 Obs per group:
 min = 5
 avg = 8.3
 max = 10

corr(u_i, Xb) = -0.6258
 F(6,38) = 8.60
 Prob > F = 0.0000

fdilog	Coefficient	Std. err.	t	P> t	[95% conf. interval]
gdplog	1.460953	.2172578	6.72	0.000	1.021137 1.900768
psilog	-.0281736	.0624472	-0.45	0.654	-.1545914 .0982443
to	.070843	.1675357	0.42	0.675	-.2683152 .4100012
infdef	.0158468	.0061807	2.56	0.014	.0033347 .0283589
nrr	-.001297	.0202715	-0.06	0.949	-.0423345 .0397405
citr	-.6330423	4.170241	-0.15	0.880	-9.075255 7.80917
_cons	-14.35796	5.834709	-2.46	0.019	-26.16971 -2.546207
sigma_u	.98258791				
sigma_e	.2256546				
rho	.94990157	(fraction of variance due to u_i)			

F test that all u_i=0: F(5, 38) = 6.67 Prob > F = 0.0002

20 . estimates store fe

21 . xtreg fdilog gdplog psilog to infdef nrr citr, fe

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Fixed-effects (within) regression      Number of obs   =      50
Group variable: no                    Number of groups =      6

R-squared:                            Obs per group:
  Within = 0.5758                      min =          5
  Between = 0.8448                     avg =          8.3
  Overall = 0.8421                     max =          10

corr(u_i, Xb) = -0.6258                F(6,38)         =      8.60
                                        Prob > F        =     0.0000
    
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fdilog	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
gdplog	1.460953	.2172578	6.72	0.000	1.021137	1.900768
psilog	-.0281736	.0624472	-0.45	0.654	-.1545914	.0982443
to	.070843	.1675357	0.42	0.675	-.2683152	.4100012
infdef	.0158468	.0061807	2.56	0.014	.0033347	.0283589
nrr	-.001297	.0202715	-0.06	0.949	-.0423345	.0397405
citr	-.6330423	4.170241	-0.15	0.880	-9.075255	7.80917
_cons	-14.35796	5.834709	-2.46	0.019	-26.16971	-2.546207
sigma_u	.98258791					
sigma_e	.2256546					
rho	.94990157	(fraction of variance due to u_i)				

F test that all u_i=0: F(5, 38) = 6.67 Prob > F = 0.0002

22 . estimates store fe

23 . reg fdilog gdplog psilog to infdef nrr citr

Source	SS	df	MS	Number of obs	=	50
Model	153.691904	6	25.6153174	F(6, 43)	=	303.20
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Total	157.324738	49	3.21070894	Root MSE	=	.29066

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infdef	.0224132	.0058963	3.80	0.000	.0105222	.0343041
nrr	-.0596699	.0069204	-8.62	0.000	-.0736262	-.0457136
citr	-3.374277	2.708122	-1.25	0.220	-8.835725	2.087171
_cons	4.508414	.9704716	4.65	0.000	2.551271	6.465556

24 . estimates store pooled

25 . estimates table pooled fe re, star stats(N r2_a F chi1)

Variable	pooled	fe	re
gdplog	.72778449***	1.4609529***	.72778449***
psilog	.05436662	-.02817355	.05436662
to	.4864384***	.07084304	.4864384***
infdef	.02241316***	.01584679*	.02241316***
nrr	-.05966989***	-.00129701	-.05966989***
citr	-3.3742767	-.63304229	-3.3742767
_cons	4.5084136***	-14.357959*	4.5084136***
N	50	50	50
r2_a	.97368665	.452993	

F	303.19545	8.5963963
chi1		

Legend: * p<0.05; ** p<0.01; *** p<0.001