



User: sec3

Project: Ae

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1 . xtivreg LTITA_2 Turnover LTFCF_1 LTLeverage LTRevenue LTCash TQ (TQ = TQ_diff_1
> TQ_diff_2), fe
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Fixed-effects (within) IV regression
Group variable: FirmID

Number of obs = 3,828
Number of groups = 319

R-sq:

within = 0.0211
between = 0.0995
overall = 0.0574

Obs per group:

min = 12
avg = 12.0
max = 12

corr(u_i, Xb) = 0.0323

Wald chi2(6) = 26754.28
Prob > chi2 = 0.0000

LTITA_2	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0093433	.0118309	0.79	0.430	-.0138448	.0325314
Turnover	26.02909	7.16638	3.63	0.000	11.98325	40.07494
LTFCF_1	-.6632632	.2196502	-3.02	0.003	-1.09377	-.2327567
LTLeverage	.3146274	.1615589	1.95	0.051	-.0020223	.6312771
LTRevenue	1.231944	.1718853	7.17	0.000	.8950552	1.568833
LTCash	-.3431614	.4166313	-0.82	0.410	-1.159744	.473421
TQ	0 (omitted)					
_cons	-4.074247	.1225911	-33.23	0.000	-4.314521	-3.833973
sigma_u	1.0367693					
sigma_e	1.208834					
rho	.42382429	(fraction of variance due to u_i)				

F test that all u_i=0: F(318,3503) = 8.19 Prob > F = 0.0000

Instrumented: TQ
Instruments: Turnover LTFCF_1 LTLeverage LTRevenue LTCash TQ TQ_diff_1
TQ_diff_2

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2 . estimates store fix3
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3 . xtivreg LTITA_2 Turnover LTFCF_1 LTLeverage LTRevenue LTCash TQ (TQ = TQ_diff_1
> TQ_diff_2), re
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G2SLS random-effects IV regression
Group variable: FirmID

Number of obs = 3,828
Number of groups = 319

R-sq:

within = 0.0197
between = 0.1310
overall = 0.0708

Obs per group:

min = 12
avg = 12.0
max = 12

corr(u_i, X) = 0 (assumed)

Wald chi2(6) = 120.71
Prob > chi2 = 0.0000

LTITA_2	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0212858	.0110315	1.93	0.054	-.0003356	.0429072
Turnover	23.16499	6.800019	3.41	0.001	9.837196	36.49278
LTFCF_1	-.6493858	.2168015	-3.00	0.003	-1.074309	-.2244626
LTLeverage	.0383346	.1540568	0.25	0.803	-.2636111	.3402803
LTRevenue	1.312935	.1361556	9.64	0.000	1.046075	1.579795
LTCash	-.8691681	.3913813	-2.22	0.026	-1.636261	-.1020749
TQ	0 (omitted)					
_cons	-4.020676	.115628	-34.77	0.000	-4.247303	-3.794049
sigma_u	.89994042					
sigma_e	1.208834					
rho	.35659677	(fraction of variance due to u_i)				

Instrumented: TQ
 Instruments: Turnover LTFCF_1 LTLeverage LTRevenue LTCash TQ TQ_diff_1
 TQ_diff_2

4 . estimates store ran3

5 . hausman fix3 .

	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
	(b) fix3	(B) ran3		
TQ	.0093433	.0212858	-.0119425	.0042749
Turnover	26.02909	23.16499	2.864106	2.262024
LTFCF_1	-.6632632	-.6493858	-.0138774	.0352606
LTLeverage	.3146274	.0383346	.2762928	.0486601
LTRevenue	1.231944	1.312935	-.0809904	.1049105
LTCash	-.3431614	-.8691681	.5260067	.1428368

b = consistent under Ho and Ha; obtained from xtivreg
 B = inconsistent under Ha, efficient under Ho; obtained from xtivreg

Test: Ho: difference in coefficients not systematic

chi2(6) = (b-B)'[(V_b-V_B)^(-1)](b-B)
 = 56.29
 Prob>chi2 = 0.0000

6 . xtivreg LTITA_1 Turnover LTFCF_1 LTLeverage LTRevenue LTCash TQ (TQ = TQ_diff_1
 > TQ_diff_2), fe

Fixed-effects (within) IV regression Number of obs = 3,828
 Group variable: FirmID Number of groups = 319

R-sq: Obs per group:
 within = 0.1871 min = 12
 between = 0.1087 avg = 12.0
 overall = 0.1388 max = 12

corr(u_i, Xb) = -0.1512 Wald chi2(6) = 50910.63
 Prob > chi2 = 0.0000

9 . estimates store random3

10 . hausman fixed3 .

	Coefficients			
	(b) fixed3	(B) random3	(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
TQ	.0200377	.0285837	-.0085459	.002681
Turnover	9.954855	9.388688	.5661677	1.390713
LTFCF_1	-4.04659	-3.974532	-.0720584	.0181194
LTLeverage	.2887611	.0970387	.1917224	.0296904
LTRevenue	2.256065	2.063188	.1928764	.0705534
LTCash	-.2648147	-.5406156	.2758009	.0888016

b = consistent under Ho and Ha; obtained from xtivreg
B = inconsistent under Ha, efficient under Ho; obtained from xtivreg

Test: Ho: difference in coefficients not systematic

chi2(6) = (b-B)'[(V_b-V_B)^(-1)](b-B)
= 70.14
Prob>chi2 = 0.0000

11 . xtivreg LTITA_2 Turnover LTFCF_2 LTLeverage LTRevenue LTCash TQ (TQ = TQ_diff_1
> TQ_diff_2), fe

Fixed-effects (within) IV regression Number of obs = 3,509
Group variable: FirmID Number of groups = 319

R-sq: Obs per group:

within = 0.1768	min = 11
between = 0.1136	avg = 11.0
overall = 0.1376	max = 11

corr(u_i, Xb) = -0.1287 Wald chi2(6) = 40734.44
Prob > chi2 = 0.0000

LTITA_2	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0089549	.0100597	0.89	0.373	-.0107617	.0286715
Turnover	13.71592	6.285329	2.18	0.029	1.396899	26.03494
LTFCF_2	-3.409862	.1653336	-20.62	0.000	-3.73391	-3.085814
LTLeverage	.3781087	.1423943	2.66	0.008	.0990209	.6571965
LTRevenue	2.266715	.1520347	14.91	0.000	1.968733	2.564698
LTCash	-1.22512	.362194	-3.38	0.001	-1.935007	-.5152325
TQ	0	(omitted)				
_cons	-4.740518	.1084062	-43.73	0.000	-4.95299	-4.528046
sigma_u	1.0812251					
sigma_e	.9927736					
rho	.54257036	(fraction of variance due to u_i)				

F test that all u_i=0: F(318,3184) = 11.94 Prob > F = 0.0000

Instrumented: TQ
Instruments: Turnover LTFCF_2 LTLeverage LTRevenue LTCash TQ TQ_diff_1
TQ_diff_2

16 . xtivreg LTITA_1 Amihud AmihudXHigh_FLR LTFCF_1 LTLeverage LTRevenue LTCash TQ (T
> Q = TQ_diff_1 TQ_diff_2), fe

Fixed-effects (within) IV regression
Group variable: FirmID

Number of obs = 3,828
Number of groups = 319

R-sq:
within = 0.1880
between = 0.1050
overall = 0.1365

Obs per group:
min = 12
avg = 12.0
max = 12

corr(u_i, Xb) = -0.1588

Wald chi2(7) = 50960.44
Prob > chi2 = 0.0000

LTITA_1	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0199464	.0092528	2.16	0.031	.0018112	.0380816
Amihud	.0149616	.0120794	1.24	0.215	-.0087136	.0386369
AmihudXHigh_FLR	.0447206	.0247195	1.81	0.070	-.0037288	.09317
LTFCF_1	-4.038206	.1716979	-23.52	0.000	-4.374727	-3.701684
LTLeverage	.2526939	.127088	1.99	0.047	.0036059	.5017818
LTRevenue	2.273663	.1345694	16.90	0.000	2.009912	2.537414
LTCash	-.3069104	.3255898	-0.94	0.346	-.9450548	.3312339
TQ	0	(omitted)				
_cons	-4.778917	.094429	-50.61	0.000	-4.963994	-4.593839
sigma_u	1.0237805					
sigma_e	.94537708					
rho	.5397527	(fraction of variance due to u_i)				
F test that all u_i=0: F(318,3502) = 12.68 Prob > F = 0.0000						
Instrumented: TQ						
Instruments: Amihud AmihudXHigh_FLR LTFCF_1 LTLeverage LTRevenue LTCash TQ						
TQ_diff_1 TQ_diff_2						

17 . estimates store fix5

18 . xtivreg LTITA_1 Amihud AmihudXHigh_FLR LTFCF_1 LTLeverage LTRevenue LTCash TQ (T
> Q = TQ_diff_1 TQ_diff_2), re

G2SLS random-effects IV regression
Group variable: FirmID

Number of obs = 3,828
Number of groups = 319

R-sq:
within = 0.1868
between = 0.1172
overall = 0.1452

Obs per group:
min = 12
avg = 12.0
max = 12

corr(u_i, X) = 0 (assumed)

Wald chi2(7) = 831.98
Prob > chi2 = 0.0000

LTITA_1	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.028552	.008859	3.22	0.001	.0111885	.0459154
Amihud	.0086073	.0120401	0.71	0.475	-.0149909	.0322056
AmihudXHigh_FLR	.0398517	.024859	1.60	0.109	-.008871	.0885744
LTFCF_1	-3.965191	.1709833	-23.19	0.000	-4.300312	-3.63007
LTLeverage	.0673398	.1236927	0.54	0.586	-.1750934	.309773
LTRevenue	2.0684	.1143357	18.09	0.000	1.844307	2.292494
LTCash	-.5799639	.3134372	-1.85	0.064	-1.19429	.0343618
TQ	0	(omitted)				
_cons	-4.599914	.0974947	-47.18	0.000	-4.791	-4.408828
sigma_u	.88377855					
sigma_e	.94537708					
rho	.46636221	(fraction of variance due to u_i)				

Instrumented: TQ
Instruments: Amihud AmihudXHigh_FLR LTFCF_1 LTLeverage LTRevenue LTCash TQ
TQ_diff_1 TQ_diff_2

19 . estimates store ran5

20 . hausman fix5 .

	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
	(b) fix5	(B) ran5		
TQ	.0199464	.028552	-.0086056	.0026706
Amihud	.0149616	.0086073	.0063543	.0009736
AmihudXHi~LR	.0447206	.0398517	.0048689	.
LTFCF_1	-4.038206	-3.965191	-.0730145	.0156483
LTLeverage	.2526939	.0673398	.1853541	.0291803
LTRevenue	2.273663	2.0684	.2052628	.0709667
LTCash	-.3069104	-.5799639	.2730535	.088124

b = consistent under Ho and Ha; obtained from xtivreg
B = inconsistent under Ha, efficient under Ho; obtained from xtivreg

Test: Ho: difference in coefficients not systematic

chi2(7) = (b-B)'[(V_b-V_B)^(-1)](b-B)
= 98.77
Prob>chi2 = 0.0000
(V_b-V_B is not positive definite)

21 . xtivreg LTITA_2 Amihud AmihudXHigh_FLR LTFCF_2 LTLeverage LTRevenue LTCash TQ (T
> Q = TQ_diff_1 TQ_diff_2), fe

Fixed-effects (within) IV regression Number of obs = 3,509
Group variable: FirmID Number of groups = 319

R-sq: Obs per group:

within = 0.1757	min = 11
between = 0.1148	avg = 11.0
overall = 0.1376	max = 11

corr(u_i, Xb) = -0.1312 Wald chi2(7) = 40664.70
Prob > chi2 = 0.0000


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      chi2(7) = (b-B)'[(V_b-V_B)^(-1)](b-B)
              =      83.29
      Prob>chi2 =      0.0000
      (V_b-V_B is not positive definite)

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28 . xtivreg LTITA_1 Turnover TurnoverXHigh_FLR LTFCF_1 LTLeverage LTRevenue LTCash T
> Q (TQ = TQ_diff_1 TQ_diff_2), re

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G2SLS random-effects IV regression      Number of obs   =      3,828
Group variable: FirmID                  Number of groups  =      319

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R-sq:                                Obs per group:
      within = 0.1879                      min =      12
      between = 0.1210                     avg  =     12.0
      overall = 0.1480                     max  =      12

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corr(u_i, X)      = 0 (assumed)           Wald chi2(7)      =     841.12
                                           Prob > chi2       =     0.0000

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LTITA_1	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0283611	.0088517	3.20	0.001	.011012	.0457102
Turnover	.026643	6.33094	0.00	0.997	-12.38177	12.43506
TurnoverXHigh~LR	24.42553	8.506952	2.87	0.004	7.752213	41.09885
LTFCF_1	-3.962353	.1707864	-23.20	0.000	-4.297088	-3.627618
LTLeverage	.0342399	.1246901	0.27	0.784	-.2101481	.278628
LTRevenue	2.086982	.1146862	18.20	0.000	1.862201	2.311763
LTCash	-.5671063	.3134864	-1.81	0.070	-1.181528	.0473158
TQ	0	(omitted)				
_cons	-4.617889	.0994133	-46.45	0.000	-4.812735	-4.423042
sigma_u	.89581454					
sigma_e	.94481935					
rho	.47339498	(fraction of variance due to u_i)				

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Instrumented:  TQ
Instruments:   Turnover TurnoverXHigh_FLR LTFCF_1 LTLeverage LTRevenue LTCash TQ
               TQ_diff_1 TQ_diff_2

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29 . estimates store ran7

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30 . hausman fix7 .

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	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
	(b) fix7	(B) ran7		
TQ	.0200124	.0283611	-.0083487	.0026745
Turnover	.3655432	.026643	.3389002	1.54752
TurnoverX~LR	24.76544	24.42553	.3399058	1.296509
LTFCF_1	-4.033801	-3.962353	-.0714482	.0180266
LTLeverage	.2287403	.0342399	.1945003	.0288512
LTRevenue	2.28343	2.086982	.1964481	.0706117
LTCash	-.2937879	-.5671063	.2733184	.0886972

b = consistent under Ho and Ha; obtained from xtivreg
 B = inconsistent under Ha, efficient under Ho; obtained from xtivreg

Test: Ho: difference in coefficients not systematic

```
chi2(7) = (b-B)'[(V_b-V_B)^(-1)](b-B)
        = 72.51
Prob>chi2 = 0.0000
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31 . xtivreg LTITA_2 Turnover TurnoverXHigh_FLR LTFCF_2 LTLeverage LTRevenue LTCash T
> 0 (T0 = T0 diff 1 T0 diff 2), fe
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Fixed-effects (within) IV regression	Number of obs	=	3,509
Group variable: FirmID	Number of groups	=	319

R-sq:		Obs per group:	
within	= 0.1770	min	= 11
between	= 0.1135	avg	= 11.0
overall	= 0.1375	max	= 11

corr(u i, Xb) = -0.1298	Wald chi2(7) = 40732.62
	Prob > chi2 = 0.0000

LTITA_2	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.008942	.01006	0.89	0.374	-.0107753	.0286592
Turnover	10.4297	7.285634	1.43	0.152	-3.849879	24.70928
TurnoverXHig~LR	8.591611	9.631838	0.89	0.372	-10.28644	27.46967
LTFCF_2	-3.415581	.1654632	-20.64	0.000	-3.739883	-3.091279
LTLeverage	.3562577	.1444906	2.47	0.014	.0730614	.6394541
LTRevenue	2.275804	.1523806	14.93	0.000	1.977143	2.574464
LTCash	-1.236927	.3624475	-3.41	0.001	-1.947311	-.5265431
TQ	0	(omitted)				
_cons	-4.736081	.1085237	-43.64	0.000	-4.948784	-4.523378
sigma_u	1.0815371					
sigma_e	.99280546					
rho	.54269767	(fraction of variance due to u_i)				

F test that all u_i=0: F(318,3183) = 11.94 Prob > F = 0.0000

Instrumented: TQ
Instruments: Turnover TurnoverXHigh_FLR LTFCF_2 LTLeverage LTRevenue LTCash TQ
TQ diff 1 TQ diff 2

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32 . estimates store fix8
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33 . xtivreg LTITA_2 Turnover TurnoverXHigh_FLR LTFCF_2 LTLeverage LTRevenue LTCash T
> 0 (T0 = T0 diff 1 T0 diff 2), re
```

G2SLS random-effects IV regression	Number of obs	=	3,509
Group variable: FirmID	Number of groups	=	319

R-sq:		Obs per group:	
within	= 0.1758	min	= 11
between	= 0.1273	avg	= 11.0
overall	= 0.1464	max	= 11

corr(u i, X)	= 0 (assumed)	Wald chi2(7)	=	716.75
		Prob > chi2	=	0.0000

LTITA_2	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0207287	.0095878	2.16	0.031	.001937	.0395204
Turnover	9.024415	7.05377	1.28	0.201	-4.80072	22.84955
TurnoverXHig~LR	7.479865	9.501472	0.79	0.431	-11.14268	26.10241
LTFCF_2	-3.356648	.1643236	-20.43	0.000	-3.678716	-3.034579
LTLeverage	.139311	.1406037	0.99	0.322	-.1362672	.4148891
LTRevenue	2.110601	.1270551	16.61	0.000	1.861578	2.359625
LTCash	-1.427202	.3470594	-4.11	0.000	-2.107426	-.746978
TQ	0	(omitted)				
_cons	-4.574971	.1096572	-41.72	0.000	-4.789896	-4.360047
sigma_u	.95494733					
sigma_e	.99280546					
rho	.48057052	(fraction of variance due to u_i)				

Instrumented: TQ
Instruments: Turnover TurnoverXHigh_FLR LTFCF_2 LTLeverage LTRevenue LTCash TQ
TQ_diff_1 TQ_diff_2

34 . estimates store ran8

35 . hausman fix8 .

	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
	(b) fix8	(B) ran8		
TQ	.008942	.0207287	-.0117868	.003046
Turnover	10.4297	9.024415	1.405285	1.8234
TurnoverX~LR	8.591611	7.479865	1.111746	1.579345
LTFCF_2	-3.415581	-3.356648	-.0589329	.019386
LTLeverage	.3562577	.139311	.2169468	.0332887
LTRevenue	2.275804	2.110601	.1652022	.084124
LTCash	-1.236927	-1.427202	.1902749	.1044889

b = consistent under Ho and Ha; obtained from xtivreg
B = inconsistent under Ha, efficient under Ho; obtained from xtivreg

Test: Ho: difference in coefficients not systematic

chi2(7) = (b-B)'[(V_b-V_B)^(-1)](b-B)
= 64.51
Prob>chi2 = 0.0000

36 . xtivreg LTITA_1 Amihud AmihudXHigh_PR LTFCF_1 LTLeverage LTRevenue LTCash TQ (TQ
> = TQ_diff_1 TQ_diff_2), fe

Fixed-effects (within) IV regression	Number of obs	=	3,828
Group variable: FirmID	Number of groups	=	319
R-sq:	Obs per group:		
within = 0.1875	min =		12
between = 0.1059	avg =		12.0
overall = 0.1369	max =		12
	Wald chi2(7)	=	50925.08
corr(u_i, Xb) = -0.1579	Prob > chi2	=	0.0000

LTITA_1	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0199466	.0092567	2.15	0.031	.0018038	.0380895
Amihud	.0227048	.0113061	2.01	0.045	.0005452	.0448643
AmihudXHigh_PR	-.1631945	.1633955	-1.00	0.318	-.4834438	.1570548
LTCFCF_1	-4.039444	.171767	-23.52	0.000	-4.376101	-3.702787
LTLeverage	.2540482	.1271273	2.00	0.046	.0048834	.5032131
LTRRevenue	2.273268	.1346586	16.88	0.000	2.009342	2.537194
LTCash	-.3048835	.3256939	-0.94	0.349	-.9432319	.3334648
TQ	0	(omitted)				
_cons	-4.778085	.0944661	-50.58	0.000	-4.963235	-4.592935
sigma_u	1.0229743					
sigma_e	.94568406					
rho	.53919992	(fraction of variance due to u_i)				
F test that all u_i=0:		F(318,3502) =	12.67	Prob > F	= 0.0000	
Instrumented:	TQ					
Instruments:	Amihud AmihudXHigh_PR LTCFCF_1 LTLeverage LTRRevenue LTCash TQ					
	TQ_diff_1 TQ_diff_2					

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37 . estimates store fix9
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38 . xtivreg LTITA_1 Amihud AmihudXHigh_PR LTFCH_1 LTLeverage LTRRevenue LTCash TQ (TQ
> = TQ diff 1 TQ diff 2), re
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G2SLS random-effects IV regression	Number of obs	=	3,828
Group variable: FirmID	Number of groups	=	319
R-sq:	Obs per group:		
within = 0.1863	min =		12
between = 0.1182	avg =		12.0
overall = 0.1456	max =		12
	Wald chi2(7)	=	829.67
corr(u i, X) = 0 (assumed)	Prob > chi2	=	0.0000

LTITA_1	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0285853	.0088619	3.23	0.001	.0112163	.0459542
Amihud	.0156365	.0112303	1.39	0.164	-.0063746	.0376475
AmihudXHigh_PR	-.1546223	.1640797	-0.94	0.346	-.4762127	.166968
LTFCF_1	-3.966435	.1710784	-23.18	0.000	-4.301742	-3.631128
LTLeverage	.0675262	.1237287	0.55	0.585	-.1749776	.31003
LTRevenue	2.066567	.1143097	18.08	0.000	1.842524	2.290609
LTCash	-.5803898	.3135148	-1.85	0.064	-1.194867	.0340879
TQ	0 (omitted)					
_cons	-4.597897	.0974005	-47.21	0.000	-4.788798	-4.406995
sigma_u	.88080441	(fraction of variance due to u_i)				
sigma_e	.94568406					
rho	.46452324					

Instrumented: TQ
Instruments: Amihud AmihudXHigh_PR LTFCF_1 LTLeverage LTRevenue LTCash TQ
TQ_diff_1 TQ_diff_2

Instrumented: TQ
Instruments: Amihud AmihudXHigh_PR LTFCF_2 LTLeverage LTRevenue LTCash TQ
TQ diff 1 TQ diff 2

LTITA_1	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0285608	.0088611	3.22	0.001	.0111935	.0459282
Turnover	9.398089	5.623002	1.67	0.095	-1.622792	20.41897
TurnoverXHig~PR	-.050124	9.123547	-0.01	0.996	-17.93195	17.8317
LTFCF_1	-3.974712	.1709196	-23.25	0.000	-4.309708	-3.639715
LTLeverage	.0975366	.122911	0.79	0.427	-.1433645	.3384377
LTRevenue	2.063597	.114546	18.02	0.000	1.839091	2.288103
LTCash	-.5398813	.3137055	-1.72	0.085	-1.154733	.0749702
TQ	0	(omitted)				
_cons	-4.631945	.0995067	-46.55	0.000	-4.826975	-4.436915
sigma_u	.89805041					
sigma_e	.94593534					
rho	.47404933	(fraction of variance due to u_i)				

Instrumented: TQ
Instruments: Turnover TurnoverXHigh_PR LTFCF_1 LTLeverage LTRevenue LTCash TQ
TQ_diff_1 TQ_diff_2

49 . estimates store ran11

50 . hausman fix11 .

	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
	(b) fix11	(B) ran11		
TQ	.0200322	.0285608	-.0085286	.0026825
Turnover	10.05437	9.398089	.6562774	1.355718
TurnoverX~PR	-.6430611	-.050124	-.5929371	.7945222
LTFCF_1	-4.04646	-3.974712	-.0717478	.0182435
LTLeverage	.2885978	.0975366	.1910612	.0296825
LTRevenue	2.255925	2.063597	.1923284	.0705289
LTCash	-.2651677	-.5398813	.2747136	.0889065

b = consistent under Ho and Ha; obtained from xtivreg
B = inconsistent under Ha, efficient under Ho; obtained from xtivreg

Test: Ho: difference in coefficients not systematic

chi2(7) = (b-B)'[(V_b-V_B)^(-1)](b-B)
= 70.17
Prob>chi2 = 0.0000

51 . xtivreg LTITA_2 Turnover TurnoverXHigh_PR LTFCF_2 LTLeverage LTRevenue LTCash TQ
> (TQ = TQ_diff_1 TQ_diff_2), fe

Fixed-effects (within) IV regression	Number of obs	=	3,509
Group variable: FirmID	Number of groups	=	319
R-sq:	Obs per group:		
within = 0.1768	min =		11
between = 0.1136	avg =		11.0
overall = 0.1376	max =		11
	Wald chi2(7)	=	40722.71
corr(u_i, Xb) = -0.1289	Prob > chi2	=	0.0000

Instrumented: TQ
Instruments: Amihud AmihudXHigh_KZ LTFCF_1 LTLeverage LTRevenue LTCash TQ
TQ_diff_1 TQ_diff_2

LTITA_2	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
TQ	.0210615	.0096134	2.19	0.028	.0022195	.0399035
Amihud	.0011526	.0118848	0.10	0.923	-.0221411	.0244464
AmihudXHigh_KZ	.008787	.1408834	0.06	0.950	-.2673394	.2849133
LTFCF_2	-3.355449	.1647944	-20.36	0.000	-3.678441	-3.032458
LTLeverage	.1481433	.1396435	1.06	0.289	-.1255528	.4218395
LTRevenue	2.100255	.1264079	16.61	0.000	1.8525	2.34801
LTCash	-1.459378	.3468662	-4.21	0.000	-2.139224	-.7795331
TQ	0	(omitted)				
_cons	-4.54087	.1074825	-42.25	0.000	-4.751531	-4.330208
sigma_u	.93405221					
sigma_e	.99360835					
rho	.46913391	(fraction of variance due to u_i)				
Instrumented:	TQ					
Instruments:	Amihud AmihudXHigh_KZ LTFCF_2 LTLeverage LTRevenue LTCash TQ					
	TQ_diff_1 TQ_diff_2					

64 . estimates store ran14

65 . hausman fix14 .

	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
	(b) fix14	(B) ran14		
TQ	.0090227	.0210615	-.0120388	.0030664
Amihud	.0076399	.0011526	.0064872	.0015397
AmihudXHig~Z	.0025856	.008787	-.0062013	.0089745
LTFCF_2	-3.416508	-3.355449	-.0610582	.0173478
LTLeverage	.3627454	.1481433	.2146021	.0343183
LTRevenue	2.280291	2.100255	.1800358	.0849851
LTCash	-1.274196	-1.459378	.185182	.1041765

b = consistent under Ho and Ha; obtained from xtivreg
 B = inconsistent under Ha, efficient under Ho; obtained from xtivreg

Test: Ho: difference in coefficients not systematic

chi2(7) = (b-B)'[(V_b-V_B)^(-1)](b-B)
 = 43.10
 Prob>chi2 = 0.0000
 (V_b-V_B is not positive definite)

66 . xtivreg LTITA_1 Turnover TurnoverXHigh_KZ LTFCF_1 LTLeverage LTRevenue LTCash TQ
 > (TQ = TQ_diff_1 TQ_diff_2), fe

Fixed-effects (within) IV regression	Number of obs	=	3,828
Group variable: FirmID	Number of groups	=	319
R-sq:	Obs per group:		
within = 0.1872	min =		12
between = 0.1086	avg =		12.0
overall = 0.1388	max =		12
	Wald chi2(7)	=	50908.60
corr(u_i, Xb) = -0.1506	Prob > chi2	=	0.0000

76 .