

CGR Bond Panel Regressions Model Number 5

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#####  
### Unbalanced Bond Panel Estimation Augmented Model #5 #####  
#####  
  
## Model Number 5  
  
# Full  
Panel_Bond_model_5  
  
Oneway (individual) effect Within Model  
  
Call:  
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)  
  
Unbalanced Panel: n = 25, T = 1-21, N = 451  
  
Residuals:  
      Min.    1st Qu.      Median    3rd Qu.      Max.  
-31.94488  -4.89372   0.50037    5.43326   33.43201  
  
Coefficients:  
      Estimate Std. Error  t value Pr(>|t|)  
TED          -23.87718    3.18794  -7.4898 4.153e-13 ***  
VIX           1.67041    0.12318  13.5607 < 2.2e-16 ***  
SENT          1.27642    0.64518   1.9784  0.04854 *  
FEDFUNDS       3.01479    0.24269  12.4226 < 2.2e-16 ***  
ERM          -23.40789    2.53371  -9.2386 < 2.2e-16 ***  
Euro         -36.20595    3.22682 -11.2203 < 2.2e-16 ***  
Agg_Econ_Risk -0.73737    0.12782  -5.7691 1.556e-08 ***  
Agg_Fin_Risk   0.23476    0.31156   0.7535  0.45158  
Agg_Pol_Risk  -0.31162    0.20603  -1.5125  0.13115  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
  
Total Sum of Squares:    117330  
Residual Sum of Squares: 42016  
R-Squared:              0.6419  
Adj. R-Squared: 0.61356  
F-statistic: 83.0529 on 9 and 417 DF, p-value: < 2.22e-16  
  
# Pre 2000  
Panel_Bond_model_5_Pre  
  
Oneway (individual) effect Within Model
```

Call:
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Unbalanced Panel: n = 20, T = 7-10, N = 194

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-17.06710	-2.08369	0.37815	1.93392	22.41985

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
TED	12.58585	6.89434	1.8255	0.0697176 .
VIX	-0.51168	0.13289	-3.8504	0.0001681 ***
SENT	1.67309	1.00220	1.6694	0.0969194 .
FEDFUNDS	1.57193	0.27452	5.7261	4.708e-08 ***
ERM	-21.98590	2.39994	-9.1610	< 2.2e-16 ***
Agg_Econ_Risk	0.25285	0.16600	1.5232	0.1296220
Agg_Fin_Risk	0.24813	0.21229	1.1688	0.2441635
Agg_Pol_Risk	-0.12706	0.16339	-0.7776	0.4378930

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares: 16688

Residual Sum of Squares: 3650.6

R-Squared: 0.78124

Adj. R-Squared: 0.74566

F-statistic: 74.1036 on 8 and 166 DF, p-value: < 2.22e-16

Post 2000

Panel_Bond_model_5_Post

Oneway (individual) effect Within Model

Call:

plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Unbalanced Panel: n = 25, T = 1-11, N = 257

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-34.00732	-5.66758	0.48405	5.75046	26.95060

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
TED	-27.35155	3.52312	-7.7634	2.924e-13 ***
VIX	1.98902	0.18578	10.7066	< 2.2e-16 ***
SENT	-1.34799	1.25816	-1.0714	0.2851
FEDFUNDS	3.45613	0.60405	5.7216	3.361e-08 ***
Euro	-30.59959	4.60669	-6.6424	2.309e-10 ***

```

Agg_Econ_Risk    0.74622    0.60369    1.2361    0.2177
Agg_Fin_Risk     -0.26245    0.62736   -0.4183    0.6761
Agg_Pol_Risk     -0.56706    0.36959   -1.5343    0.1264

```

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Total Sum of Squares:    81648
Residual Sum of Squares: 30332
R-Squared:               0.6285
Adj. R-Squared:          0.57543
F-statistic: 47.371 on 8 and 224 DF, p-value: < 2.22e-16

```

##

Model Number 5 with Equity_Liq and Int_Use

Full

Panel_Bond_model_5_aug_int

Oneway (individual) effect Within Model

Call:

```
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)
```

Unbalanced Panel: n = 22, T = 10-21, N = 431

Residuals:

	Min.	1st Qu.	Median	3rd Qu.	Max.
	-32.23667	-4.44956	0.29665	4.79282	31.94265

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
TED	-19.900794	3.372297	-5.9013	7.725e-09	***
VIX	1.448395	0.151727	9.5461	< 2.2e-16	***
SENT	1.450209	0.690089	2.1015	0.03623	*
FEDFUNDS	2.018479	0.318848	6.3305	6.597e-10	***
ERM	-25.003117	2.366660	-10.5647	< 2.2e-16	***
Euro	-32.039131	3.705812	-8.6456	< 2.2e-16	***
Agg_Econ_Risk	-0.276614	0.227387	-1.2165	0.22452	
Agg_Fin_Risk	0.135247	0.323435	0.4182	0.67606	
Agg_Pol_Risk	-0.394485	0.221623	-1.7800	0.07584	.
Bond_Liq	2.105813	3.218137	0.6544	0.51326	
Internet_Usage	-0.126498	0.031209	-4.0533	6.075e-05	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Total Sum of Squares:    111330
Residual Sum of Squares: 38397
R-Squared:               0.6551

```

Adj. R-Squared: 0.62737

F-statistic: 68.7228 on 11 and 398 DF, p-value: < 2.22e-16

Pre 2000

Panel_Bond_model_5_aug_int_Pre

Oneway (individual) effect Within Model

Call:

plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Unbalanced Panel: n = 20, T = 7-10, N = 193

Residuals:

	Min.	1st Qu.	Median	3rd Qu.	Max.
	-16.18059	-2.23279	0.15704	2.08849	21.76036

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
TED	21.682029	7.116174	3.0469	0.002698	**
VIX	-0.550035	0.134196	-4.0987	6.536e-05	***
SENT	3.587148	1.278963	2.8047	0.005649	**
FEDFUNDS	0.830899	0.441049	1.8839	0.061357	.
ERM	-22.294223	2.328417	-9.5748	< 2.2e-16	***
Agg_Econ_Risk	0.394951	0.196223	2.0128	0.045785	*
Agg_Fin_Risk	0.050682	0.198515	0.2553	0.798810	
Agg_Pol_Risk	-0.209612	0.176241	-1.1893	0.236032	
Bond_Liq	-4.277813	3.099628	-1.3801	0.169444	
Internet_Usage	-0.188229	0.084124	-2.2375	0.026608	*

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares: 16674

Residual Sum of Squares: 3515.1

R-Squared: 0.78919

Adj. R-Squared: 0.75168

F-statistic: 61.0204 on 10 and 163 DF, p-value: < 2.22e-16

Post 2000

Panel_Bond_model_5_aug_int_Post

Oneway (individual) effect Within Model

Call:

plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Unbalanced Panel: n = 22, T = 8-11, N = 238

Residuals:

	Min.	1st Qu.	Median	3rd Qu.	Max.
	-33.067626	-5.659816	0.029858	5.534828	26.992149

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
TED	-28.80115	6.69369	-4.3027	2.606e-05	***
VIX	2.05788	0.32906	6.2538	2.274e-09	***
SENT	0.10401	2.73157	0.0381	0.9697	
FEDFUNDS	3.53050	0.66793	5.2857	3.181e-07	***
Euro	-32.62242	7.37925	-4.4208	1.590e-05	***
Agg_Econ_Risk	0.68558	0.65787	1.0421	0.2986	
Agg_Fin_Risk	-0.28697	0.61622	-0.4657	0.6419	
Agg_Pol_Risk	-0.40374	0.37627	-1.0730	0.2845	
Bond_Liq	-119.55733	131.98256	-0.9059	0.3661	
Internet_Usage	0.10931	0.20238	0.5401	0.5897	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares: 74496

Residual Sum of Squares: 27479

R-Squared: 0.63114

Adj. R-Squared: 0.57563

F-statistic: 35.2479 on 10 and 206 DF, p-value: < 2.22e-16

##

Model Number 5 with Equity_Liq and Dev_PC1

Full

Panel_Bond_model_5_aug_devpc

Oneway (individual) effect Within Model

Call:

plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Unbalanced Panel: n = 16, T = 11-21, N = 324

Residuals:

	Min.	1st Qu.	Median	3rd Qu.	Max.
	-30.73315	-4.58239	0.26311	5.53580	28.12099

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
TED	-21.994204	4.306895	-5.1067	5.868e-07	***
VIX	1.397832	0.157455	8.8777	< 2.2e-16	***
SENT	1.160423	0.806199	1.4394	0.15110	
FEDFUNDS	2.414967	0.472796	5.1078	5.837e-07	***
ERM	-22.896911	2.586373	-8.8529	< 2.2e-16	***

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Euro          -29.383113    4.481855 -6.5560 2.444e-10 ***
Agg_Econ_Risk -0.325660    0.228919 -1.4226 0.15590
Agg_Fin_Risk  -0.060409    0.420590 -0.1436 0.88589
Agg_Pol_Risk  -0.518086    0.306461 -1.6905 0.09197 .
Bond_Liq      -0.828092    4.059555 -0.2040 0.83850
Dev_PC1       -1.337422    0.655455 -2.0404 0.04219 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

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Total Sum of Squares:    78465
Residual Sum of Squares: 30709
R-Squared:               0.60862
Adj. R-Squared:          0.57436
F-statistic: 41.9874 on 11 and 297 DF, p-value: < 2.22e-16

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Pre 2000

Panel_Bond_model_5_aug_devpc_Pre

Oneway (individual) effect Within Model

Call:

```
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)
```

Unbalanced Panel: n = 15, T = 9-10, N = 148

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-14.12299	-2.40589	0.46723	1.86379	20.10218

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
TED	-2.39804	8.64147	-0.2775	0.781860
VIX	-0.38589	0.18511	-2.0847	0.039167 *
SENT	-0.38853	1.37745	-0.2821	0.778367
FEDFUNDS	2.62232	0.41035	6.3904	3.094e-09 ***
ERM	-20.12280	2.52543	-7.9681	9.277e-13 ***
Agg_Econ_Risk	0.40569	0.18924	2.1438	0.034015 *
Agg_Fin_Risk	0.22918	0.19637	1.1671	0.245417
Agg_Pol_Risk	-0.43664	0.22757	-1.9187	0.057338 .
Bond_Liq	1.20754	3.55841	0.3393	0.734926
Dev_PC1	2.26526	0.69050	3.2806	0.001348 **

```

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

Total Sum of Squares:    12027
Residual Sum of Squares: 2720.4
R-Squared:               0.77381
Adj. R-Squared:          0.72968
F-statistic: 42.0795 on 10 and 123 DF, p-value: < 2.22e-16

```

```

# Post 2000
Panel_Bond_model_5_aug_devpc_Post

Oneway (individual) effect Within Model

Call:
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Balanced Panel: n = 16, T = 11, N = 176

Residuals:
    Min.    1st Qu.    Median    3rd Qu.    Max.
-30.25481  -5.68444   0.41504   6.58190  25.52529

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
TED          -24.80376    6.11179  -4.0583 7.927e-05 ***
VIX             1.65821    0.32371   5.1225 9.135e-07 ***
SENT          -2.75160    2.40937  -1.1420 0.2552573
FEDFUNDS        3.04213    0.79145   3.8437 0.0001785 ***
Euro          -20.25219    8.23315  -2.4598 0.0150358 *
Agg_Econ_Risk   1.43520    0.52074   2.7561 0.0065752 **
Agg_Fin_Risk   -1.33965    0.68840  -1.9460 0.0535199 .
Agg_Pol_Risk   -0.41555    0.47222  -0.8800 0.3802694
Bond_Liq      -334.89037  369.33654  -0.9067 0.3660012
Dev_PC1        -1.34448    2.21000  -0.6084 0.5438686
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares:    51875
Residual Sum of Squares: 20460
R-Squared:                0.60559
Adj. R-Squared: 0.53985
F-statistic: 23.0313 on 10 and 150 DF, p-value: < 2.22e-16

##
#####
### Balanced Bond Panel Estimation Augmented Model #5 #####
#####

## Model Number 5

# Full
Bal_Bond_model_5

Oneway (individual) effect Within Model

Call:

```

```
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)
```

Balanced Panel: n = 20, T = 15, N = 300

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-29.03490	-4.68732	0.60824	5.09474	31.61813

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
TED	-23.91244	3.40786	-7.0169	1.805e-11	***
VIX	1.82971	0.15316	11.9466	< 2.2e-16	***
SENT	-1.65305	0.65613	-2.5194	0.01233	*
FEDFUNDS	4.21081	0.39894	10.5551	< 2.2e-16	***
Euro	-31.22148	3.66261	-8.5244	1.076e-15	***
Agg_Econ_Risk	-0.37028	0.21448	-1.7264	0.08541	.
Agg_Fin_Risk	-0.22700	0.39121	-0.5802	0.56223	
Agg_Pol_Risk	-0.17729	0.21293	-0.8326	0.40581	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares: 80742

Residual Sum of Squares: 28685

R-Squared: 0.64473

Adj. R-Squared: 0.60946

F-statistic: 61.7014 on 8 and 272 DF, p-value: < 2.22e-16

Pre 2000

Bal_Bond_model_5_Pre

Oneway (individual) effect Within Model

Call:

```
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)
```

Balanced Panel: n = 20, T = 8, N = 160

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-11.82454	-1.24976	0.31967	1.30551	5.39537

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
TED	2.27277	3.82182	0.5947	0.55307	
VIX	-0.19140	0.10537	-1.8164	0.07155	.
SENT	0.94932	0.75620	1.2554	0.21154	
FEDFUNDS	-0.66752	0.55875	-1.1947	0.23434	
Agg_Econ_Risk	0.15923	0.14097	1.1295	0.26071	
Agg_Fin_Risk	0.13534	0.14747	0.9177	0.36042	


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Agg_Pol_Risk    0.13298    0.16629  0.7997  0.42534
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares:    977.43
Residual Sum of Squares: 867.35
R-Squared:              0.11262
Adj. R-Squared: -0.060852
F-statistic: 2.41135 on 7 and 133 DF, p-value: 0.023477

# Post 2000
Bal_Bond_model_5_Post

Oneway (individual) effect Within Model

Call:
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Balanced Panel: n = 20, T = 7, N = 140

Residuals:
    Min.   1st Qu.   Median   3rd Qu.    Max.
-32.9554  -4.2348   1.2819   6.4003   32.1536

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
TED           151.22817    37.00559   4.0866 8.258e-05 ***
VIX            -7.17052     1.85824  -3.8588 0.0001909 ***
SENT          268.26497    50.97378   5.2628 6.906e-07 ***
FEDFUNDS      -22.59523     5.23501  -4.3162 3.441e-05 ***
Euro           53.46012    13.26428   4.0304 0.0001019 ***
Agg_Econ_Risk   1.65053     0.81454   2.0263 0.0451061 *
Agg_Fin_Risk    0.12285     0.84762   0.1449 0.8850267
Agg_Pol_Risk    0.20212     0.42564   0.4749 0.6358095
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares:    26920
Residual Sum of Squares: 13060
R-Squared:              0.51484
Adj. R-Squared: 0.39788
F-statistic: 14.8565 on 8 and 112 DF, p-value: 1.1973e-14

##

## Model Number 5 with Equity_Liq and Int_Use

# Full
Bal_Bond_model_5_aug_int

```

Oneway (individual) effect Within Model

Call:

```
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)
```

Balanced Panel: n = 19, T = 15, N = 285

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-30.3122	-4.4917	0.4116	4.4488	28.5954

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
TED	-18.698270	3.525920	-5.3031	2.463e-07	***
VIX	1.531276	0.215755	7.0973	1.248e-11	***
SENT	-1.584232	0.666442	-2.3772	0.01818	*
FEDFUNDS	3.009490	0.720158	4.1789	4.022e-05	***
Euro	-26.939489	4.411132	-6.1072	3.746e-09	***
Agg_Econ_Risk	0.038309	0.320869	0.1194	0.90506	
Agg_Fin_Risk	-0.481831	0.412430	-1.1683	0.24378	
Agg_Pol_Risk	-0.101755	0.209096	-0.4866	0.62693	
Bond_Liq	11.219299	17.774728	0.6312	0.52848	
Internet_Usage	-0.102601	0.045211	-2.2694	0.02408	*

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares: 72916

Residual Sum of Squares: 26117

R-Squared: 0.64182

Adj. R-Squared: 0.60264

F-statistic: 45.872 on 10 and 256 DF, p-value: < 2.22e-16

Pre 2000

Bal_Bond_model_5_aug_int_Pre

Oneway (individual) effect Within Model

Call:

```
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)
```

Balanced Panel: n = 19, T = 8, N = 152

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-12.14666	-1.23310	0.32635	1.24303	5.20937

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
TED	3.897900	3.822525	1.0197	0.30985

VIX	-0.161825	0.093190	-1.7365	0.08496	.
SENT	1.653035	0.894557	1.8479	0.06700	.
FEDFUNDS	-1.318958	0.625336	-2.1092	0.03694	*
Agg_Econ_Risk	0.180243	0.173679	1.0378	0.30139	
Agg_Fin_Risk	0.093572	0.139803	0.6693	0.50454	
Agg_Pol_Risk	0.141227	0.175659	0.8040	0.42294	
Bond_Liq	-15.827037	3.349888	-4.7246	6.139e-06	***
Internet_Usage	-0.037956	0.035715	-1.0627	0.28996	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares: 882.71
 Residual Sum of Squares: 759.66
 R-Squared: 0.1394
 Adj. R-Squared: -0.047991
 F-statistic: 2.2317 on 9 and 124 DF, p-value: 0.024107

Post 2000

Bal_Bond_model_5_aug_int_Post

Oneway (individual) effect Within Model

Call:

plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Balanced Panel: n = 19, T = 7, N = 133

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-30.7608	-5.2566	1.2812	5.3020	31.5276

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
TED	155.83606	35.94406	4.3355	3.370e-05	***
VIX	-7.53688	1.81660	-4.1489	6.845e-05	***
SENT	293.35442	50.93467	5.7594	8.644e-08	***
FEDFUNDS	-24.90927	5.24522	-4.7489	6.567e-06	***
Euro	47.90161	13.30729	3.5997	0.0004899	***
Agg_Econ_Risk	1.87990	0.76878	2.4453	0.0161522	*
Agg_Fin_Risk	0.20800	0.90573	0.2297	0.8188140	
Agg_Pol_Risk	0.18936	0.40391	0.4688	0.6401770	
Bond_Liq	-582.75010	410.75724	-1.4187	0.1589701	
Internet_Usage	0.60748	0.20296	2.9931	0.0034503	**

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares: 26023
 Residual Sum of Squares: 11783
 R-Squared: 0.5472

```

Adj. R-Squared: 0.4253
F-statistic: 12.5684 on 10 and 104 DF, p-value: 4.4879e-14

##

## Model Number 5 with Equity_Liq and Dev_PC1

# Full
Bal_Bond_model_5_aug_devpc

Oneway (individual) effect Within Model

Call:
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Balanced Panel: n = 15, T = 15, N = 225

Residuals:
      Min.      1st Qu.      Median      3rd Qu.      Max.
-26.799923  -4.239934   0.026023   5.235393  26.309283

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
TED          -20.82151    4.47443  -4.6534 5.933e-06 ***
VIX             1.46482    0.23325   6.2800 2.069e-09 ***
SENT          -1.91803    0.82696  -2.3194 0.021385 *
FEDFUNDS        3.10282    0.76637   4.0487 7.360e-05 ***
Euro          -23.21349    4.99659  -4.6459 6.133e-06 ***
Agg_Econ_Risk   0.14372    0.31511   0.4561 0.648815
Agg_Fin_Risk   -0.82218    0.50199  -1.6378 0.103028
Agg_Pol_Risk   -0.25573    0.26819  -0.9536 0.341459
Bond_Liq       -0.53721   19.13760  -0.0281 0.977633
Dev_PC1        -2.04969    0.77742  -2.6365 0.009034 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares:    57391
Residual Sum of Squares: 22120
R-Squared:              0.61457
Adj. R-Squared: 0.56831
F-statistic: 31.8896 on 10 and 200 DF, p-value: < 2.22e-16

# Pre 2000
Bal_Bond_model_5_aug_devpc_Pre

Oneway (individual) effect Within Model

Call:
plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

```

Balanced Panel: n = 15, T = 8, N = 120

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-11.67979	-1.56933	0.28406	1.58500	5.34912

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
TED	-0.708152	4.628008	-0.1530	0.878708
VIX	-0.348291	0.122907	-2.8338	0.005608 **
SENT	0.011663	1.061208	0.0110	0.991254
FEDFUNDS	0.208256	0.761619	0.2734	0.785103
Agg_Econ_Risk	0.256573	0.152544	1.6820	0.095828 .
Agg_Fin_Risk	0.294425	0.115049	2.5591	0.012056 *
Agg_Pol_Risk	0.170537	0.221535	0.7698	0.443312
Bond_Liq	-20.683245	4.763151	-4.3423	3.495e-05 ***
Dev_PC1	0.466689	0.607434	0.7683	0.444197

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares: 905.89

Residual Sum of Squares: 769.62

R-Squared: 0.15043

Adj. R-Squared: -0.053115

F-statistic: 1.88868 on 9 and 96 DF, p-value: 0.062668

Post 2000

Bal_Bond_model_5_aug_devpc_Post

Oneway (individual) effect Within Model

Call:

plm::plm(formula = form, data = data_matrix, model = mdl, index = ind)

Balanced Panel: n = 15, T = 7, N = 105

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-27.6831345	-5.4901624	0.0022126	5.9672163	30.3139858

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
TED	133.213965	44.696707	2.9804	0.003812 **
VIX	-6.444017	2.282994	-2.8226	0.006008 **
SENT	256.417242	65.984142	3.8860	0.000209 ***
FEDFUNDS	-21.374099	6.839220	-3.1252	0.002476 **
Euro	45.056359	14.095097	3.1966	0.001992 **
Agg_Econ_Risk	2.343115	0.873156	2.6835	0.008851 **

```

Agg_Fin_Risk    -0.308974    1.047214 -0.2950 0.768725
Agg_Pol_Risk     0.055074     0.519547  0.1060 0.915844
Bond_Liq        -787.726650  379.261853 -2.0770 0.041011 *
Dev_PC1          4.341876     2.820251  1.5395 0.127620
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares:    18332
Residual Sum of Squares: 9380
R-Squared:               0.48832
Adj. R-Squared: 0.33482
F-statistic: 7.63491 on 10 and 80 DF, p-value: 1.9624e-08
##

```