

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 = 22, T = 10-21, N = 435  
  
Residuals:  
      Min.   1st Qu.   Median   3rd Qu.    Max.     
-32.1657  -4.7971    0.4324    5.3800   33.7030  
  
Coefficients:  
              Estimate Std. Error  t value Pr(>|t|)      
TED          -23.53185    3.33682  -7.0522 7.710e-12 ***  
VIX             1.65765    0.12779  12.9719 < 2.2e-16 ***  
SENT           1.49066    0.64652   2.3057 0.0216363 *  
FEDFUNDS       2.96561    0.24808  11.9543 < 2.2e-16 ***  
ERM            -23.68122    2.56967  -9.2157 < 2.2e-16 ***  
Euro           -36.46369    3.37565 -10.8020 < 2.2e-16 ***  
Agg_Econ_Risk  -0.74825    0.12874  -5.8120 1.256e-08 ***  
Agg_Fin_Risk    0.22962    0.31143   0.7373 0.4613660  
Agg_Pol_Risk   -0.29942    0.20759  -1.4424 0.1499791  
Bond_Liq        7.97086    2.18311   3.6511 0.0002955 ***  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
  
Total Sum of Squares:    112390  
Residual Sum of Squares: 39666  
R-Squared:      0.64706  
Adj. R-Squared: 0.61991  
F-statistic: 73.8846 on 10 and 403 DF, p-value: < 2.22e-16  
  
# Pre 2000  
Panel_Bond_model_5_Pre  
  
Oneway (individual) effect Within Model
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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.
-17.08441	-2.07350	0.41548	1.93310	22.42649

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
TED	11.98663	6.97373	1.7188	0.0875217 .
VIX	-0.51614	0.13304	-3.8797	0.0001509 ***
SENT	1.49887	1.07886	1.3893	0.1666123
FEDFUNDS	1.60651	0.27679	5.8040	3.232e-08 ***
ERM	-21.92060	2.42951	-9.0227	4.558e-16 ***
Agg_Econ_Risk	0.26806	0.16979	1.5788	0.1163053
Agg_Fin_Risk	0.23946	0.21117	1.1340	0.2584503
Agg_Pol_Risk	-0.12191	0.16193	-0.7529	0.4526009
Bond_Liq	-3.67714	3.25454	-1.1299	0.2601787

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

Total Sum of Squares: 16688

Residual Sum of Squares: 3646.1

R-Squared: 0.78152

Adj. R-Squared: 0.74444

F-statistic: 65.578 on 9 and 165 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 = 22, T = 10-11, N = 241

Residuals:

Min.	1st Qu.	Median	3rd Qu.	Max.
-33.64796	-5.75026	0.54259	5.62472	26.84627

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
TED	-27.05035	3.72964	-7.2528	7.729e-12 ***
VIX	1.96758	0.19271	10.2099	< 2.2e-16 ***
SENT	-1.32973	1.33820	-0.9937	0.3215

```

FEDFUNDS      3.41902    0.63171    5.4124 1.691e-07 ***
Euro          -30.51444    5.10710   -5.9749 9.737e-09 ***
Agg_Econ_Risk  0.73507    0.65265    1.1263    0.2613
Agg_Fin_Risk  -0.32959    0.63639   -0.5179    0.6051
Agg_Pol_Risk  -0.52960    0.38820   -1.3642    0.1740
Bond_Liq      -115.64348   129.30428  -0.8944    0.3722
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

Total Sum of Squares:    76706
Residual Sum of Squares: 28162
R-Squared:               0.63285
Adj. R-Squared:          0.5804
F-statistic: 40.2197 on 9 and 210 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

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```

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	***
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

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

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
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

##