APPENDIX A: RESULTS FROM REGRESSIONS ON THE INITIAL SAMPLE

Table I: Regression results from full sample

	Total			Long-term			Short-term		
	leverage			Leverage			leverage		
	Upturn	Downturn	Difference	Upturn	Downturn	Difference	Upturn	Downturn	Difference
Panel A: Regression	on results when	conditions are d	etermined by the re	eturn on an equi	ty index				
EQTY_U*TGT	0.4881458			0.2287389			0.9217893		
	(0.1230)			(0.0771)			(0.1906)		
	(0.000)			(0.003)			(0.000)		
EQTY_D*TGT		0.4289258			0.242919			0.9309439	
		(0.1324)			(0.0802)			(0.2120)	
		(0.001)			(0.002)			(0.000)	
			11.58(0.0007)			0.71(0.4000)			0.06(0.8058)
Number of	1239			1239			1239		
observations									
1st order	-2.3929			-3.6104			-1.8729		
autocorrelation	(0.0167)			(0.0003)			(0.0611)		
2 nd order	1.3161			1.1355			1.3916		
autocorrelation	(0.1882)			(0.3562)			(0.1641)		
Sargan test	76.0442			73.4258			65.7427		
	(0.1207)			(0.1331)			(0.1124)		
Wald	1026.15			4240.06			518.74		
	(0.0000)			(0.0000)			(0.0000)		
Panel B: Regression	on results when	macroeconomic	conditions are det	ermined by the t	erm spread				
TERM_U*TGT	0.2118423			0.261397			1.337545		
	(0.1842)			(0.0842)			(0.2504)		
	(0.250)			(0.002)			(0.000)		
TERM_D*TGT		0.2559541			0.2811547			1.248519	
		(0.1697)			(0.0793)			(0.2227)	
		(0.131)			(0.000)			(0.000)	
			4.56(0.0328)			1.32(0.2513)			5.85(0.0156)
Number of	1239		·	1239			1239		·
observations									
1st order	-2.3359			-3.6368			-1.86		
autocorrelation	(0.0195)			(0.0003)			(0.0629)		

2 nd order	1.2578			1.1416			1.2975		
autocorrelation	(0.2085)			(0.2536)			(0.1945)		
Sargan test	76.7537			74.3310			65.2212		
g	(0.1181)			(0.1282)			(0.1011)		
Wald	997.12			4418.05			503.31		
	(0.0000)			(0.0000)			(0.0000)		
Panel C: Regressio	n results when i	macroeconomic co	nditions are detern	nined by real C	GDP growth rate				
GDP_U*TGT	0.3662452			0.2297852			0.853582		
	(0.1333)			(0.0815)			(0.1681)		
	(0.006)			(0.005)			(0.000)		
GDP_D*TGT		0.4240189			0.3583299			0.8927419	
		(0.1264)			(0.0859)			(0.1636)	
		(0.001)			(0.000)			(0.000)	
			8.55(0.0035)			33.77(0.0000)			1.42(0.2328)
Number of	1239			1239			1239		
observations									
1st order	-2.349			-3.646			-1.8656		
autocorrelation	(0.0188)			(0.0003)			(0.0621)		
2 nd order	1.2619			1.1521			1.3762		
autocorrelation	(0.2070)			(0.2493)			(0.1688)		
Sargan test	77.3816			65.1564			64.7580		
	(0.1161)			(0.1221)			(0.1291)		
Wald	933.23			4066.52			539.59		
	(0.0000)			(0.0000)			(0.0000)		
Panel D: Regressio		macroeconomic co			flation rate				
CPI_U*TGT	0.2544333			0.1918646			0.7683626		
	(0.1516)			(0.1014)			(0.2013)		
	(0.093)			(0.058)			(0.000)		
CPI_D*TGT		0.2262453			0.1461538			0.7329938	
		(0.1574)			(0.1113)			(0.1915)	
		(0.151)			(0.189)			(0.000)	
			2.59(0.1078)			5.05(0.0246)			1.26(0.2615)
Number of	1031			1031			1031		
observations									
1st order	-2.2239			-3.0816			-1.8273		
autocorrelation	(0.0262)			(0.0021)			(0.0677)		
2 nd order	1.4458			1.2539			2.2495		

autocorrelation	(0.1482)		(0.2099)		(0.1245)		
Sargan test	52.1965		54.7338	3		57.4385		
8	(0.1588)		(0.1082)		(0.0694)		
Wald	758.37		3847.22	2		493.49		
	(0.0000)		(0.0000))		(0.0000)		
Panel E: Regressi	on results when me	acroeconomic c	onditions are determined by	y the leading indicator		· · ·		
LEAD_U*TGT	0.4880688		0.24863	368		0.9350643		
	(0.1374)		(0.0780)		(0.1937)		
	(0.000)		(0.001)			(0.000)		
LEAD_D*TGT		0.4396821		0.2592438			0.9771627	
		(0.1322)		(0.0798)			(0.2116)	
		(0.001)		(0.001)			(0.000)	
			5.52(0.0188)		0.47(0.4908)			1.88(0.1698)
Number of	1239		1239			1239		
observations								
1st order	-2.3793		-3.6327			-1.8527		
autocorrelation	(0.0173)		(0.0003)		(0.0639)		
2 nd order	1.3408		1.1383			1.3154		
autocorrelation	(0.1800)		(0.2550)		(0.1884)		
Sargan test	77.6883		74.8373	3		64.2413		
	(0.1152)		(0.1258)		(0.1584)		
Wald	957.56		4204.06	5		486.68		
	(0.0000)		(0.0000)		(0.0000)		
Panel F: Regressi	on results when mo	acroeconomic c	onditions are determined by	y the coincident indicat	tor			
COIN_U*TGT	0.3281098		0.22365	595		0.8567013		
	(0.1336)		(0.0815)		(0.1678)		
	(0.014)		(0.006)			(0.000)		
COIN_D*TGT		0.3926895		0.3554056			0.9010248	
		(0.1267)		(0.0859)			(0.1634)	
		(0.002)		(0.000)			(0.000)	
			10.74(0.0010)		35.68(0.0000)			1.82(0.1771)
Number of	1239		1239			1239		
observations								
1st order	-2.3517		-3.6456			-1.8664		
autocorrelation	(0.0187)		(0.0003)		(0.0620)		
2 nd order	1.2571		1.1517			1.377		
autocorrelation	(0.2087)		(0.2494			(0.1685)		

Sargan test	76.8168	64.7185	65.1231	
	(0.1179)	(0.1298)	(0.1227)	
Wald	936.36	4038.41	544.41	
	(0.0000)	(0.0000)	(0.0000)	
Panel G: Regress	ion results when macroeconomic conditio	ns are determined by the lagging indicator		
LAG_U*TGT	0.403012	0.2008939	1.109506	
	(0.1859)	(0.0894)	(0.3124)	
	(0.030)	(0.025)	(0.000)	
LAG_D*TGT	0.3819846	0.2576865	1.102950	08
	(0.1716)	(0.0846)	(0.2766)	
	(0.026)	(0.002)	(0.000)	
	0.83(0.3627) 5.2	5(0.0220)	2.87(0.0905)
Number of	1031	1031	1031	
observations				
1st order	-2.2238	-3.1054	-1.842	
autocorrelation	(0.0262)	(0.0019)	(0.0655)	
2 nd order	1.4327	1.2545	2.05 (0.0404)	
autocorrelation	(0.1519)	(0.2096)		
Sargan test	54.7450	50.2390	59.9412	
_	(0.1080)	(0.2085)	(0.1455)	
Wald	679.5	3960.45	359.98	
	(0.0000)	(0.0000)	(0.0000)	

This table reports regression results from the full sample. Regressions were run separately for each macroeconomic indicator. Panels A to G show the results using the various indicators. For the sake of brevity, the firm-characteristic variables are excluded from the results. Instead, the coefficients for the interaction terms between the macroeconomic indicator dummy variables and target leverage are reported. The variables are defined as follows: EQTY_U*TGT is the interaction of the "upturn" equity index dummy with the target leverage term, EQTY_D*TGT is the interaction of the "downturn" equity index dummy with the target leverage term, TERM_U*TGT is the interaction of the "upturn" term spread dummy with the target leverage term, GDP_U*TGT is the interaction of the "downturn" term spread dummy with the target leverage term, GDP_D*TGT is the interaction between the "downturn" GDP dummy and the target leverage term, CPI_U*TGT is the interaction between the "upturn" CPI dummy with the target leverage term, CPI_D*TGT is the interaction between the "CPI "downturn" dummy and the target leverage term, LEAD_U*TGT is the interaction between the "upturn" leading indicator dummy and the target leverage term, COIN_U*TGT, is the interaction between the "upturn" coincident indicator dummy and the target leverage term, COIN_D*TGT is the interaction between the "downturn" coincident indicator dummy and the target leverage term, COIN_D*TGT is the interaction between the "downturn" coincident indicator dummy and the target leverage term, and LAG_D*TGT is the interaction between the "downturn" lagging indicator dummy and the target leverage term, and LAG_D*TGT is the interaction between the "downturn" lagging indicator dummy and the target leverage term, and p-values for the adjustment speed coefficients are reported (in this order) below the coefficients. The "difference" column reports the chi-squared statistic and p-value in brackets from a difference in means test between the

coefficients on the interaction terms. The significance of this chi-squared statistic determines whether the null hypothesis of no difference in the coefficients should be accepted or rejected. In addition, the number of observations in each regression is reported. The first and second-order autocorrelation test z-statistics are also reported. The p-values for these are reported in brackets, the significance of which determines whether or not to reject the null hypothesis of no autocorrelation. Sargan test chi-squared statistics are also reported, with p-values reported in brackets, in order to test the null hypothesis that the overidentifying restrictions are valid. Wald test chi-squared statistics are also included. The p-values (reported in brackets) related to this determines whether the null hypothesis that all the dependent variables are simultaneously equal to 0 (and therefore are not significant determinants of the dependent variable and can be excluded from the model) should be rejected. Lastly, separate columns are included for each leverage definition as separate sets of regressions were run for short-term, long-term and total leverage.

Table II: Regression results for constrained and unconstrained firms as defined by the capital expenditure coverage ratio

	Total leverage	:		Long-term Leverage			Short-term leverage		
	Upturn	Downturn	Difference	Upturn	Downturn	Difference	Upturn	Downturn	Difference
Panel A · Regress			etermined by the re			Difference	Сриин	Downtum	Difference
Unconstrained	Total Testinis Willer	- Containions are ac	sterminear by the re-	turn on an equi	ay tituest				
EQTY_U*TGT	0.4652141			0.2130243			1.915156		
241_0 101	(0.0384)			(0.0165)			(0.0299)		
	(0.000)			(0.000)			(0.000)		
EQTY_D*TGT	, ,	0.4926855		· · · · · · · · · · · · · · · · · · ·	0.1930244			2.278726	
		(0.0391)			(0.0152)			(0.0338)	
		(0.000)			(0.000)			(0.000)	
			62.87(0.0000)			84.42(0.0000)			1414.53(0.0000)
Number of	417			417			417		
observations									
1st order	-3.1955			-2.3655			-2.7005		
autocorrelation	(0.0014)			(0.0180)			(0.0069)		
2 nd order	1.2038			1.1282			1.2619		
autocorrelation	(0.2287)			(0.2592)			(0.2070)		
Sargan test	48.5439			60.4000			55.7682		
	(0.6481)			(0.2261)			(0.3711)		
Wald	3.87e+07			5.97e+06			169280.98		
	(0.0000)			(0.0000)			(0.0000)		
Constrained									
EQTY_U*TGT	-0.0286779			-0.3271916			1.273943		
	(0.0378)			(0.0245)			(0.0736)		
	(0.448)			(0.000)			(0.000)		
EQTY_D*TGT		-0.1033785			-0.3224045			1.180117	
		(0.0390)			(0.0242)			(0.0778)	
		(0.008)			(0.000)			(0.000)	
			124.16(0.0000)			1934.47(0.0000)			33.29(0.0000)
Number of	342			342			342		
observations									
1st order	-3.3791			-2.3434			-1.8559		
autocorrelation	(0.0174)			(0.0191)			(0.0635)		
2 nd order	-0.4502			-0.2520			0.3092		

autocorrelation	(0.6526)		(0.8010)		(0.7572)		
Sargan test	50.5173		53.9505		51.3922		
.	(0.5714)		(0.4378)		(0.5370)		
Wald	29752.05		4.44e+06		1.19e+06		
	(0.0000)		(0.0000)		(0.0000)		
					•		
Panel B: Regressi	ion results when macroec	onomic conditions are deter	mined by the term spread	d			
Unconstrained			-				
TERM_U*TGT	0.0621421		0.3249403		0.35419		
	(0.1075)		(0.0182)		(0.0469)		
	(0.563)		(0.000)		(0.000)		
TERM_D*TGT	0.112		0.25643			0.472738	
	(0.09		(0.0176))		(0.0413)	
	(0.24	*	(0.000)			(0.000)	
		22.36(0.0000)		819.22(0.0000)			282.69(0.0000)
Number of	417		417		417		
observations							
1st order	-3.2078		-2.446		-2.6605		
autocorrelation	(0.0013)		(0.0144)		(0.0078)		
2 nd order	1.1944		1.1999		1.5704		
autocorrelation	(0.2323)		(0.2302)		(0.1167)		
Sargan test	47.46212		64.8019		52.9442		
	(0.6888)		(0.1283)		(0.4763)		
Wald	84890.67		9.91e+06		1.72e+06		
	(0.0000)		(0.0000)		(0.0000)		
Constrained							
TERM_U*TGT	-0.6588597		-0.494069		0.2958229		
	(0.0599)		(0.0175)		(0.1029)		
	(0.000)		(0.000)		(0.004)		
TERM_D*TGT		82091	-0.4058			0.5190207	
	(0.05		(0.0163)		(0.1021)	
	(0.00	<u> </u>	(0.000)			(0.000)	15 15 00 (0 0000)
	2.42	119.76(0.0000)	2.12	0.16(0.6855)	2.12		1265.90(0.0000)
Number of	342		342		342		
observations	2.4200		2 2277		1.0207		
1st order	-2.4298		-2.3377		-1.8327		
autocorrelation	(0.0151)		(0.0194)		(0.0668)		

and 1	0.4007		0.1007			0.0440		
2 nd order	-0.4897		-0.1927			0.3443		
autocorrelation	(0.6244)		(0.8472)			(0.7306)		
Sargan test	50.4011		55.4476			51.7112		
	(0.5760)		(0.3826)			(0.5244)		
Wald	33407.64		292061.04			674150.61		
	(0.0000)		(0.0000)			(0.0000)		
	on results when mac	roeconomic conditions are det	ermined by real (GDP growth rate	2			
Unconstrained								
GDP_U*TGT	0.2732545		0.2271024			0.682474		
	(0.0323)		(0.0162)			(0.0593)		
	(0.000)		(0.000)			(0.000)		
GDP D*TGT	(0.3506769		0.1794173			1.023708	
	((0.0312)		(0.0163)			(0.0481)	
	((0.000)		(0.000)			(0.000)	
		211.73(0.0000))	,	520.39(0.0000)			506.24(0.0000)
Number of	417	, ,	417		· · · · · · · · · · · · · · · · · · ·	417		•
observations								
1st order	-3.2369		-2.3809			-2.7273		
autocorrelation	(0.0012)		(0.0173)			(0.0064)		
2 nd order	1.2281		1.1257			1.3724		
autocorrelation	(0.2194)		(0.2603)			(0.1699)		
Sargan test	51.8319		61.4011			58.6677		
<u> </u>	(0.5197)		(0.2003)			(0.2755)		
Wald	35403.94		2.00e+07			7.14e+07		
	(0.0000)		(0.0000)			(0.0000)		
Constrained								
GDP_U*TGT	0.0978633		-0.5520307			1.607878		
_	(0.0365)		(0.0342)			(0.0923)		
	(0.007)		(0.000)			(0.000)		
GDP_D*TGT	,	0.0495421	• /	-0.3882705			1.551803	
_		(0.0337)		(0.0365)			(0.0790)	
		(0.141)		(0.000)			(0.000)	
	·	13.86(0.0002)		. /	1123.00(0.0000)		` ′	7.15(0.0075)
Number of	342	(342		(/	342		, ,
observations						-		
1st order	-2.3024		-2.4592			-1.8428		
	o _ .		2,2			=.0. 2 0		

autocorrelation	(0.0213)		(0.0139)		(0.0654)		
2 nd order	-0.4790		-0.1447		0.3059		
autocorrelation	(0.6319)		(0.8850)		(0.7597)		
Sargan test	52.2643		52.1125		52.2384		
Surgur test	(0.5028)		(0.5087)		(0.5038)		
Wald	15743.36		55877.07		677008.29		
	(0.0000)		(0.0000)		(0.0000)		
Panel D: Regressi	ion results when m	acroeconomic conditions are det	ermined by the inflati	ion rate			
Unconstrained			, ,				
CPI_U*TGT	0.3853463		-0.0266894		0.1675878		
_	(0.0671)		(0.0270)		(0.0938)		
	(0.000)		(0.323)		$(0.074)^{2}$		
CPI_D*TGT		0.4179321	-0.	1549043		0.3167489	
		(0.0750)	(0.	0274)		(0.0918)	
		(0.000)	(0.	000)		(0.001)	
		9.13(0.0025)		1106.63(0.000	0)		161.30(0.0000)
Number of observations	345		345		345		
1st order	-3.1788		-2.0003		-2.5819		
autocorrelation	(0.0015)		(0.0455)		(0.0098)		
2 nd order	0.90495		1.0493		1.5955		
autocorrelation	(0.3655)		(0.2940)		(0.1106)		
Sargan test	47.9664		44.8004		48.3897		
	(0.2784)		(0.3962)		(0.2644)		
Wald	41476.04		1.54e+06		9112.04		
	(0.0000)		(0.0000)		(0.0000)		
Constrained							
CPI_U*TGT	-0.4642473		0.0839249		0.6530745		
	(0.0400)		(0.0230)		(0.0821)		
	(0.000)		(0.001)		(0.000)		
CPI_D*TGT		-0.5010796	0.1	723545		0.5795948	
		(0.0443)	(0.	0234)		(0.0765)	
		(0.000)	(0.	000)		(0.000)	
		29.38(0.0000)		706.66(0.0000			73.53(0.0000)
Number of observations	290		290		290		

1.4	2 1061		2 21 65			1.6627		
1st order	-2.1961		-2.3165			-1.6627		
autocorrelation	(0.0281)		(0.0205)			(0.0964)		
2 nd order	0.0328		0.15047			0.4752		
autocorrelation	(0.9738)		(0.8804)			(0.6346)		
Sargan test	43.8778		46.2356			46.6892		
	(0.4341)		(0.3402)			(0.3233)		
Wald	185243.67		176985.77			151705.67		
	(0.0000)		(0.0000)			(0.0000)		
Panel E: Regressi	ion results when macroeconor	mic conditions are deter	rmined by the lea	ading indicator	•			
Unconstrained								
LEAD_U*TGT	0.3795526		0.2212304			1.591673		
	(0.0420)		(0.0192)			(0.0854)		
	(0.000)		(0.000)			(0.000)		
LEAD_D*TGT	0.356173	8		0.2188799			1.77597	
	(0.0424)			(0.0182)			(0.0992)	
	(0.000)			(0.000)			(0.000)	
	, ,	12.15(0.0005)			1.31(0.2529)			157.49(0.0000)
Number of	417	, , ,	417			417		
observations								
1st order	-3.168 (0.0015)		-2.3756			-2.692		
autocorrelation			(0.0175)			(0.0071)		
2 nd order	1.2133		1.1377			1.4055		
autocorrelation	(0.2250)		(0.2552)			(0.1599)		
Sargan test	47.7059		60.7379			50.6561		
O	(0.6798)		(0.2171)			(0.5659)		
Wald	73277.96		2.10e+07			43014.58		
	(0.0000)		(0.0000)			(0.0000)		
Constrained								
LEAD_U*TGT	-0.0940658		-0.4259484			1.131883		
	(0.0540)		(0.0239)			(0.0939)		
	(0.081)		(0.000)			(0.000)		
LEAD D*TGT	-0.251834	42		-0.3737355			0.9995133	
	(0.0585)			(0.0238)			(0.1062)	
	(0.000)			(0.000)			(0.000)	
	(31000)	251.91(0.0000)		· /	2135.86(0.0000)		(/	63.09(0.0000)
Number of	342	- 3-()	342			342		
observations	- · -		- · -			- · -		
obser various								

autocorrelation (0. 2 nd order -0. autocorrelation (0. Sargan test 47. (0. Wald 47. (0. Panel F: Regression reduced 1. (1. 1. (1. 1. (1. 1.	.6262 .0086) .2805 .7791) .9599 .6703) .396.10 .0000) results when macroeconomic of	-2.3091 (0.0209) -0.2799 (0.7796) 53.6765 (0.4482) 5.58e+06		-1.8314 (0.0670) 0.3741 (0.7084) 51.0962 (0.5486)		
2 nd order -0. autocorrelation (0. Sargan test 47. (0. Wald 47. (0. Panel F: Regression r. Unconstrained	.2805 .7791) (.9599 .6703) (396.10 .0000)	-0.2799 (0.7796) 53.6765 (0.4482) 5.58e+06		0.3741 (0.7084) 51.0962		
autocorrelation (0. Sargan test 47. (0. Wald 47: (0. Panel F: Regression relation relation)	.7791) (.9599 (.6703) (396.10 (.0000)	(0.7796) 53.6765 (0.4482) 5.58e+06		(0.7084) 51.0962		
Sargan test 47. (0. Wald 47. (0. Panel F: Regression red	7.9599 7.6703) 7.396.10 7.0000)	53.6765 (0.4482) 5.58e+06		51.0962		
Wald 47: (0. Panel F: Regression red Unconstrained	.6703) /396.10 .0000)	(0.4482) 5.58e+06				
Wald 477 (0. Panel F: Regression r Unconstrained	7396.10 .0000)	5.58e+06		(0.5486)		
(0. Panel F: Regression r. Unconstrained	.0000)					
Panel F: Regression re Unconstrained	,	$\langle 0, 0000 \rangle$		2.82e+06		
Unconstrained	results when macroeconomic o	(0.0000)		(0.0000)		
		conditions are determined by the c	oincident indicator			
COTAL TIME OF 0.2						
COIN_U*TGT 0.2	2357776	0.2075688		0.6801817		
(0.	.0296)	(0.0168)		(0.0608)		
(0.	.000)	(0.000)		(0.000)		
COIN_D*TGT	0.3351689		0.1835155		1.034343	
	(0.0283)		(0.0167)		(0.0492)	
	(0.000)		(0.000)		(0.000)	
		494.22(0.0000)	40.75(0.0000)			500.12(0.0000)
Number of 41	7	417		417		
observations						
1st order -3.	.226	-2.3752		-2.7363		
autocorrelation (0.	.0013)	(0.0175)		(0.0062)		
2nd order 1.2	2334	1.1259		1.3779		
autocorrelation (0.	.2174)	(0.2602)		(0.1682)		
Sargan test 52.	2.0293	61.4490		58.0926		
	.5120)	(0.1991)		(0.2932)		
Wald 41	745.66	1.09e+06		6.99e+06		
(0.	.0000)	(0.0000)		(0.0000)		
Constrained	·	, ,		, ,		
COIN_U*TGT 0.0	0978633	-0.5520307		1.607878		
	.0365)	(0.0342)		(0.0923)		
	.007)	$(0.000)^{-}$		(0.000)		
COIN_D*TGT	0.0495421	. ,	-0.3882705	•	1.551803	
_	(0.0377)		(0.0365)		(0.0790)	
	(0.141)		(0.000)		(0.000)	
	` '	13.86(0.0002)	1123.00(0.0000)	, ,	7.15(0.0075)
Number of 342	12	342	,	342		· · · · · · · · · · · · · · · · · · ·
observations		-				

1st order	-2.3024		-2.4592			-1.8428		
autocorrelation	(0.0213)		(0.0139)			(0.0654)		
2 nd order	-0.4790		-0.1147			0.3059		
autocorrelation	(0.6319)		(0.8850)			(0.7597)		
Sargan test	52.2643		52.1125			52.2384		
	(0.5028)		(0.5087)			(0.5038)		
Wald	15743.36		55877.07			677008.29		
	(0.0000)		(0.0000)			(0.0000)		
Panel G: Regressi	ion results when	macroeconomic cond	itions are determined by the l	lagging indicator	•			
Unconstrained			2	00 0				
LAG_U*TGT	0.3434707		0.1574254			0.5355764		
	(0.0346)		(0.0232)			(0.0889)		
	(0.000)		(0.000)			(0.000)		
LAG_D*TGT	,	0.3503501	,	0.0373095		•	0.5470384	
- <u>-</u>		(0.0373)		(0.0168)			(0.0805)	
		(0.000)		(0.026)			(0.000)	
			46(0.0110)		206.70(0.0000)		, , ,	0.77(0.3803)
Number of	345		345		•	345		, ,
observations								
1st order	-3.1911		-2.0808			-2.578		
autocorrelation	(0.0014)		(0.0374)			(0.0099)		
2 nd order	0.90754		1.1248			1.4886		
autocorrelation	(0.3641)		(0.2607)			(0.1366)		
Sargan test	47.3364		48.0612			45.4964		
O	(0.3001)		(0.2753)			(0.3685)		
Wald	48004.33		361640.52			9068.12		
	(0.0000)		(0.0000)			(0.0000)		
Constrained								
LAG_U*TGT	-0.5500841		-0.2430693			0.8004601		
	(0.0468)		(0.0357)			(0.1687)		
	(0.000)		(0.000)			(0.000)		
LAG_D*TGT	•	-0.5238975	. ,	-0.067291		•	0.7740797	
_		(0.0434)		(0.0330)			(0.1590)	
		(0.000)		(0.010)			(0.000)	
			0.86(0.0000)	. /	15.01(0.0001)		. ,	5.69(0.0170)
Number of	290	<u> </u>	290		` '	290		, ,
						-		

observations				
1st order	-2.2414	-2.2687	-1.6266	
autocorrelation	(0.0250)	(0.0233)	(0.1038)	
2 nd order	0.0081	0.1326	0.41607	
autocorrelation	(0.9935)	(0.8945)	(0.6774)	
Sargan test	39.5027	47.9307	47.0753	
	(0.6238)	(0.2796)	(0.3093)	
Wald	761444.78	1.22e+07	775040.20	
	(0.0000)	(0.0000)	(0.0000)	

This table reports regression results for constrained and unconstrained samples as defined by the capital expenditure coverage ratio. Regressions were run separately for each macroeconomic indicator. Panels A to G show the results using the various indicators. For the sake of brevity, the firm-characteristic variables are excluded from the results. Instead, the coefficients for the interaction terms between the macroeconomic indicator dummy variables and target leverage are reported. The variables are defined as follows: EQTY U*TGT is the interaction of the "upturn" equity index dummy with the target leverage term, EQTY D*TGT is the interaction of the "downturn" equity index dummy with the target leverage term, TERM_U*TGT is the interaction of the "upturn" term spread dummy with the target leverage term, TERM_D*TGT is the interaction of the "downturn" term spread dummy with the target leverage term, GDP_U*TGT is the interaction of the "upturn" GDP dummy with the target leverage term, GDP D*TGT is the interaction between the "downturn" GDP dummy and the target leverage term, CPI U*TGT is the interaction between the "upturn" CPI dummy with the target leverage term, CPI_D*TGT is the interaction between the CPI "downturn" dummy and the target leverage term, LEAD_U*TGT is the interaction between the "upturn" leading indicator dummy and the target leverage term, LEAD_D*TGT is the interaction between the "downturn" leading indicator dummy and the target leverage term, COIN U*TGT, is the interaction between the "upturn" coincident indicator dummy and the target leverage term, COIN D*TGT is the interaction between the "downturn" coincident indicator dummy and the target leverage term, LAG_U*TGT s the interaction between the "upturn" lagging indicator dummy and the target leverage term, and LAG_D*TGT is the interaction between the "downturn" lagging indicator dummy and the target leverage variable. The coefficients on the interaction terms yield the speed of adjustment estimates in upturns (in the case of the upturn interaction terms) and downturns (in the case of the downturn interaction terms). The GMM standard errors and p-values for the adjustment speed coefficients are reported (in this order) below the coefficients. The "difference" column reports the chi-squared statistic and p-value in brackets from a difference in means test between the coefficients on the interaction terms. The significance of this chi-squared statistic determines whether the null hypothesis of no difference in the coefficients should be accepted or rejected. In addition, the number of observations in each regression is reported. The first and secondorder autocorrelation test z-statistics are also reported. The p-values for these are reported in brackets, the significance of which determines whether or not to reject the null hypothesis of no autocorrelation. Sargan test chi-squared statistics are also reported, with p-values reported in brackets, in order to test the null hypothesis that the overidentifying restrictions are valid. Wald test chi-squared statistics are also included. The p-values (reported in brackets) related to this determines whether the null hypothesis that all the dependent variables are simultaneously equal to 0 (and therefore are not significant determinants of the dependent variable and can be excluded from the model) should be rejected. Lastly, separate columns are included for each leverage definition as separate sets of regressions were run for short-term, long-term and total leverage.

Table III: Regression results for constrained and unconstrained firms as defined by the debt coverage ratio

	Total leverage			Long-term Leverage			Short-term leverage		
	Upturn	Downturn	Difference	Upturn	Downturn	Difference	Upturn	Downturn	Difference
Panel A: Regress	ion results when	conditions are de	termined by the r	eturn on an equi	ty index				
Unconstrained									
EQTY_U*TGT	-0.1992259			-0.0824984			0.0665584		
	(0.0220)			(0.0078)			(0.0186)		
	(0.000)			(0.000)			(0.000)		
EQTY_D*TGT		-0.1882705			-0.1015824			0.1922054	
		(0.0208)			(0.0072)			(0.0231)	
		(0.000)			(0.000)			(0.000)	
			6.72(0.0095)			553.58(0.0000)			388.59(0.0000)
Number of	226			226			226		
observations									
1st order	-1.9479			-2.6721			-1.6678		
autocorrelation	(0.0514)			(0.0075)			(0.0954)		
2 nd order	1.3611			-0.08842			1.0494		
autocorrelation	(0.1735)			(0.9295)			(0.2940)		
Sargan test	41.9147			37.5740			42.7356		
	(0.8636)			(0.9461)			(0.8423)		
Wald	38850.51			1.60e+07			66442.56		
	(0.0000)			(0.0000)			(0.0000)		
Constrained									
EQTY_U*TGT	0.8771967			-0.021699			1.124309		
	(0.1416)			(0.0867)			(0.1619)		
	(0.000)			(0.802)			(0.000)		
EQTY_D*TGT		0.8305182			-0.059175			1.133161	
		(0.1439)			(0.0833)			(0.1815)	
		(0.000)			(0.478)			(0.000)	
			5.92(0.0149)	<u> </u>		7.26(0.0071)		<u> </u>	0.06(0.8086)
Number of	737			737			737		
observations									
1st order	-2.9934			-2.7527			-3.312		
autocorrelation	(0.0028)			(0.0059)			(0.0009)		
2 nd order	0.95196			1.1954			1.0522		

autocorrelation	(0.3411)			(0.2319)			(0.2927)		
				61.1678			` '		
Sargan test	60.8896						55.8257		
***	(0.2132)			(0.2061)			(0.3691)		
Wald	947.17			13157.81			739.71		
	(0.0000)			(0.0000)			(0.0000)		
Panel B: Regressi	ion results when m	acroeconomic co	nditions are deter	rmined by the te	rm spread				
Unconstrained					sproud				
TERM U*TGT	0.0713476			-0.0507725			-0.1292089		
12211120 101	(0.0332)			(0.0164)			(0.0482)		
	(0.032)			(0.002)			(0.007)		
TERM_D*TGT	,	0.0254467			-0.1174272		, ,	-0.1551099	
_		(0.0304)			(0.0162)			(0.0408)	
		$(0.403)^{\circ}$			(0.000)			(0.000)	
			139.82(0.0000)			8158.90(0.0000)			11.72(0.0006)
Number of	226			226			226		
observations									
1st order	-2.0501			-2.577			-1.6491		
autocorrelation	(0.0404)			(0.0100)			(0.0991)		
2 nd order	1.5302			-0.5844			1.1839		
autocorrelation	(0.1260)			(0.5589)			(0.2364)		
Sargan test	35.9673			39.4719			43.6862		
	(0.9647)			(0.9126)			(0.8154)		
Wald	256769.05			5.90e+06			203097.40		
	(0.0000)			(0.0000)			(0.0000)		
Constrained									
TERM_U*TGT	0.9111116			-0.0035554			0.931981		
	(0.2045)			(0.0799)			(0.2399)		
	(0.000)			(0.964)			(0.000)		
TERM_D*TGT		0.9115281			0.02684			0.9770185	
		(0.1895)			(0.0825)			(0.2114)	
		(0.000)			(0.745)			(0.000)	
			0.00(0.9843)			2.42(0.1201)			1.42(0.2331)
Number of	737			737			737		
observations									
1st order	-2.977 (0.0029)			-2.7373			-3.3492		
autocorrelation				(0.0062)			(0.0008)		

2 nd order	0.01205		1 1074			1.0002		
	0.91385		1.1864			1.0892		
autocorrelation	(0.3608)		(0.2355)			(0.2671)		
Sargan test	59.8263		61.5377			53.3282		
	(0.2418)		(0.1970)			(0.4615)		
Wald	964.95		11951.35			684.28		
	(0.0000)		(0.0000)			(0.0000)		
Panel C: Regressi	ion results when n	nacroeconomic conditions are det	ermined by real G	DP growth rate				
Unconstrained								
GDP_U*TGT	-0.1510795		-0.0839858			-0.3182941		
	(0.0370)		(0.0174)			(0.0219)		
	(0.000)		(0.000)			(0.000)		
GDP_D*TGT		-0.1760196		-0.1627606			-0.2720527	
		(0.0325)		(0.0174)			(0.0263)	
		(0.000)		(0.000)			(0.000)	
		13.93(0.0002)			4747.74(0.0000)			12.80(0.0003)
Number of	226		226			226		
observations								
1st order	-2.0253		-2.8094			-1.6641		
autocorrelation	(0.0428)		(0.0050)			(0.0961)		
2 nd order	1.4386		-0.0879			1.2387		
autocorrelation	(0.1503)		(0.9299)			(0.2155)		
Sargan test	41.5834		38.8424			43.3387		
	(0.8717)		(0.9271)			(0.8255)		
Wald	80898.67		6.86e+06			318746.54		
	(0.0000)		(0.0000)			(0.0000)		
Constrained								
GDP_U*TGT	0.8748299		-0.0774713			1.049991		
_	(0.1736)		(0.0864)			(0.1447)		
	(0.000)		(0.370)			(0.000)		
GDP_D*TGT	•	0.87998722	•	-0.0166081		•	1.102148	
		(0.1629)		(0.0816)			(0.1444)	
		(0.000)		(0.839)			(0.000)	
		0.08(0.7834)		*	13.48(0.0002)		•	2.25(0.1339)
Number of	737	, ,	737		, ,	737		, ,
observations								
1st order	-3.0053		-2.7584			-3.343		
	2.0023		2551			3.0.0		

autocorrelation	(0.0027)		(0.0058)		(0.0008)		
2 nd order	0.92025		1.1761		1.0529		
autocorrelation	(0.3574)		(0.2396)		(0.2924)		
Sargan test	60.9559		62.0744		53.9247		
8	(0.2115)		(0.1842)		(0.4388)		
Wald	905.79		12836.07		733.91		
	(0.0000)		(0.0000)		(0.0000)		
Panel D: Regressi	ion results when t	macroeconomic conditions are dete	rmined by the inflation rate				
Unconstrained							
CPI_U*TGT	-0.2796326		-0.1579568		-0.5357274		
	(0.0580)		(0.0185)		(0.0514)		
	(0.000)		(0.000)		(0.000)		
CPI_D*TGT		-0.3039001	-0.1781354			-0.538231	
		(0.0633)	(0.0218)			(0.0491)	
		(0.000)	(0.000)			(0.000)	
		15.84(0.0001)		36.19(0.0000)			0.47(0.4943)
Number of observations	189		189		189		
1st order	-1.9175		-2.5327		-1.5716		
autocorrelation	(0.0552)		(0.0113)		(0.1160)		
2 nd order	1.1781		0.3175		1.0113		
autocorrelation	(0.2387)		(0.7509)		(0.3119)		
Sargan test	35.0080		34.8597		37.8970		
_	(0.8020)		(0.8070)		(0.6918)		
Wald	74665.84		1.05e+07		352780.26		
	(0.0000)		(0.0000)		(0.0000)		
Constrained							
CPI_U*TGT	0.7754788		0.4208927		0.921462		
	(0.1096)		(0.1172)		(0.2020)		
	(0.000)		(0.000)		(0.000)		
CPI_D*TGT		0.7195413	0.4118867			0.783582	
		(0.1971)	(0.1259)			(0.1887)	
		(0.000)	(0.001)			(0.000)	
		7.59(0.0059)		0.27(0.6016)			17.84(0.0000)
Number of observations	615		615		615		

1st order	-2.9044		-2.5698			-3.1296		
	(0.0027)		(0.0102)			(0.0018)		
autocorrelation			, ,			` '		
2 nd order	0.8302		1.3749			1.0587		
autocorrelation	(0.4064)		(0.1692)			(0.2897)		
Sargan test	55.2660		53.4737			57.8388		
	(0.0994)		(0.1315)			(0.0647)		
Wald	793.28		8180.21			454.20		
	(0.0000)		(0.0000)			(0.0000)		
	ion results when macroe	economic conditions are deter	rmined by the leadin	ig indicator				
Unconstrained								
LEAD_U*TGT	-0.1458389		-0.0281592			0.2249193		
	(0.0349)		(0.0040)			(0.0386)		
	(0.000)		(0.000)			(0.000)		
LEAD_D*TGT	-0.	1392617	-0	0.0824764			0.3857715	
	(0.0)	0312)	(0	0.0036)			(0.0504)	
	0.0)	000)	(0	0.000)			(0.000)	
		2.07(0.1506)		6.	301.27(0.0000)			159.67(0.0000)
Number of	226		226			226		
observations								
1st order	-1.8566		-2.6281			-1.7627		
autocorrelation	(0.0634)		(0.0086)			(0.0780)		
2 nd order	1.3443		0.4156			1.0733		
autocorrelation	(0.1788)		(0.6777)			(0.2831)		
Sargan test	37.3195		32.5521			43.6893		
O	(0.9494)		(0.9879)			(0.8153)		
Wald	6577.42		8.83e+06			593865.95		
	(0.0000)		(0.0000)			(0.0000)		
Constrained								
LEAD_U*TGT	0.858555		-0.0136516			1.076137		
	(0.1412)		(0.0818)			(0.1844)		
	(0.000)		(0.867)			(0.000)		
LEAD D*TGT	,	202861		0.0273425		/	1.074474	
<u>-</u> 		1417)		0.0798)			(0.2054)	
		000)	*	0.732)			(0.000)	
	(01.	3.93(0.0474)	(0)		.76(0.3845)		(/	0.00(0.9572)
Number of	737	2132(212171)	737			737		()
observations	7.5.7		7.5.7					
ODDEL THEOLOG								

1.41	2.065		0.7521		2 2724		
1st order	-2.965		-2.7531		-3.3734		
autocorrelation	(0.0030)		(0.0059)		(0.0007)		
2 nd order	0.9803		1.1837		1.0814		
autocorrelation	(0.3269)		(0.2351)		(0.2795)		
Sargan test	61.3069		60.9997		51.2617		
	(0.2027)		(0.2104)		(0.5421)		
Wald	911.52		12978.17		722.98		
	(0.0000)		(0.0000)		(0.0000)		
Panel F: Regressi	ion results when macroecon	omic conditions are deter	mined by the coincide	nt indicator			
Unconstrained							
COIN_U*TGT	-0.2521679		-0.1135195		-0.3283399		
	(0.0336)		(0.0119)		(0.0216)		
	(0.000)		(0.000)		(0.000)		
COIN_D*TGT	-0.2316	217	-0.1	396523		-0.2404878	
	(0.0295		(0.0)	124)		(0.0237)	
	(0.000)		(0.0)	00)		(0.000)	
		12.59(0.0004)		1061.48(0.000	0)		35.68(0.0000)
Number of	226		226		226		
observations							
1st order	-1.9517		-2.7073		-1.6686		
autocorrelation	(0.0510)		(0.0068)		(0.0952)		
2 nd order	1.3587		-0.1828		1.2453		
autocorrelation	(0.1742)		(0.8549)		(0.2130)		
Sargan test	42.9624		34.9755		41.8476		
O	(0.8361)		(0.9735)		(0.8652)		
Wald	64659.66		1.51e+07		307870.45		
	(0.0000)		(0.0000)		(0.0000)		
Constrained					, ,		
COIN_U*TGT	0.8748299		-0.0774713		1.049991		
0011_0	(0.1736)		(0.0864)		(0.1447)		
	(0.000)		(0.370)		(0.000)		
COIN D*TGT	0.87997	722		166081	, ,	1.102148	
	(0.1629)	(0.0)	816)		(0.1444)	
	(0.000)	,	(0.8	,		(0.000)	
	(*****)	0.08(0.7834)	(415)	13.48(0.0002)		(/	2.25(0.1339)
Number of	737		737		737		- ()
observations			, , ,		, , ,		
ODSCI VALIOIIS							

1st order	-3.0053		-2.7584		-3.343		
autocorrelation	(0.0027)		(0.0058)		(0.0008)		
2 nd order	, ,		, ,		, ,		
	0.92025		1.1761		1.0529		
autocorrelation	(0.3574)		(0.2396)		(0.2924)		
Sargan test	60.9559		62.0744		53.9247		
	(0.2115)		(0.1842)		(0.4388)		
Wald	905.79		12836.07		733.91		
	(0.0000)		(0.0000)		(0.0000)		
Panel G: Regressi	ion results when i	macroeconomic conditio	ns are determined by the lagging in	ndicator			
Unconstrained			<u></u>				
LAG_U*TGT	-0.175557		-0.098304		-0.7766356		
	(0.0277)		(0.0084)		(0.0448)		
	(0.000)		(0.000)		(0.000)		
LAG_D*TGT	,	-0.1886169	-0.125	66468		-0.7216747	
_		(0.0278)	(0.011			(0.0414)	
		(0.000)	(0.000			(0.000)	
		, ,	(0.1124)	67.17(0.0000)			66.01(0.0000)
Number of	189		189	· · · · · · · · · · · · · · · · · · ·	189		·
observations							
1st order	-1.8921		-2.4867		-1.5724		
autocorrelation	(0.0585)		(0.0129)		(0.1159)		
2 nd order	1.1793		0.2721		1.0484		
autocorrelation	(0.2383)		(0.7856)		(0.2945)		
Sargan test	34.5882		35.5889		34.9407		
8	(0.8162)		(0.7815)		(0.8043)		
Wald	165284.88		2.96e+06		1.50e+06		
	(0.0000)		(0.0000)		(0.0000)		
Constrained							
LAG_U*TGT	0.9666392		0.3241878		1.016538		
	(0.2053)		(0.1036)		(0.3012)		
	(0.000)		(0.002)		(0.001)		
LAG_D*TGT		0.9439127	0.338	8585	•	0.9575542	
		(0.1956)	(0.097	79)		(0.2666)	
		(0.000)	(0.001			(0.000)	
			(0.3129)	0.27(0.6046)			1.80(0.1795)
Number of	615		615	, ,	615		, ,

observations			
1st order	-2.9269	-2.5502	-3.1108
autocorrelation	(0.0034)	(0.0108)	(0.0019)
2 nd order	0.80645	1.3727	0.9108
autocorrelation	(0.4200)	(0.1698)	(0.3624)
Sargan test	53.7316	52.7274	56.1511
	(0.1264)	(0.1470)	(0.0861)
Wald	827.61	8413.45	557.16
	(0.0000)	(0.0000)	(0.0000)

This table reports regression results for constrained and unconstrained samples as defined by the debt coverage ratio. Regressions were run separately for each macroeconomic indicator. Panels A to G show the results using the various indicators. For the sake of brevity, the firm-characteristic variables are excluded from the results. Instead, the coefficients for the interaction terms between the macroeconomic indicator dummy variables and target leverage are reported. The variables are defined as follows: EQTY_U*TGT is the interaction of the "upturn" equity index dummy with the target leverage term, EQTY_D*TGT is the interaction of the "downturn" equity index dummy with the target leverage term, TERM_U*TGT is the interaction of the "upturn" term spread dummy with the target leverage term, TERM_D*TGT is the interaction of the "downturn" term spread dummy with the target leverage term, GDP_U*TGT is the interaction of the "upturn" GDP dummy with the target leverage term, GDP_D*TGT is the interaction between the "downturn" GDP dummy and the target leverage term, CPI_U*TGT is the interaction between the "upturn" CPI dummy with the target leverage term, CPI_D*TGT is the interaction between the CPI "downturn" dummy and the target leverage term, LEAD_U*TGT is the interaction between the "upturn" leading indicator dummy and the target leverage term, LEAD_D*TGT is the interaction between the "downturn" leading indicator dummy and the target leverage term, COIN U*TGT, is the interaction between the "upturn" coincident indicator dummy and the target leverage term, COIN D*TGT is the interaction between the "downturn" coincident indicator dummy and the target leverage term, LAG_U*TGT s the interaction between the "upturn" lagging indicator dummy and the target leverage term, and LAG_D*TGT is the interaction between the "downturn" lagging indicator dummy and the target leverage variable. The coefficients on the interaction terms yield the speed of adjustment estimates in upturns (in the case of the upturn interaction terms) and downturns (in the case of the downturn interaction terms). The GMM standard errors and p-values for the adjustment speed coefficients are reported (in this order) below the coefficients. The "difference" column reports the chi-squared statistic and p-value in brackets from a difference in means test between the coefficients on the interaction terms. The significance of this chi-squared statistic determines whether the null hypothesis of no difference in the coefficients should be accepted or rejected. In addition, the number of observations in each regression is reported. The first and secondorder autocorrelation test z-statistics are also reported. The p-values for these are reported in brackets, the significance of which determines whether or not to reject the null hypothesis of no autocorrelation. Sargan test chi-squared statistics are also reported, with p-values reported in brackets, in order to test the null hypothesis that the overidentifying restrictions are valid. Wald test chi-squared statistics are also included. The p-values (reported in brackets) related to this determines whether the null hypothesis that all the dependent variables are simultaneously equal to 0 (and therefore are not significant determinants of the dependent variable and can be excluded from the model) should be rejected. Lastly, separate columns are included for each leverage definition as separate sets of regressions were run for short-term, long-term and total leverage.

Table IV: VIF estimates from fixed effects estimation of target

Variable (all variables lagged one period)	VIF
CPI	4.68
Prime rate	3.54
Equity Index	2.74
Price-to-book ratio	1.07
Profitability	1.07
Industry median leverage	1.06
Size	1.06
Tangibility	1.05
Mean VIF	2.03

Table V: VIF estimates from GMM regressions (interaction terms are excluded as multicollinearity is naturally expected between the two)

Variable (all variables lagged 1 period)	VIF
Profitability	1.06
Industry median leverage	1.04
Size	1.04
Tangibility	1.05
Price-to-book ratio	1.03
Mean VIF	1.05