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Appendices

Appendix A

Countries	1997 (%)	1998 (%)	1999 (%)	2000 (%)	2001 (%)
G-7 countries					
Canada	44.60	44.60	44.60	44.60	42.10
France	36.66	41.66	40.00	36.66	35.33
Germany	57.42	56.66	52.31	51.63	39.36
Italy	53.20	41.25	41.25	41.25	40.25
Japan	51.64	51.60	48.00	42.00	42.00
United Kingdom	33.00	31.00	31.00	30.00	30.00
United States	40.00	40.00	40.00	40.00	40.00
Average	45.22	43.82	42.45	40.88	38.43
Developing countries					
Brazil	25.00	33.00	33.00	37.00	34.00
India	35.00	35.00	35.00	38.50	38.85
Jordan	N.A.	N.A.	N.A.	N.A.	N.A.
Malaysia	30.00	28.00	28.00	28.00	28.00
Mexico	34.00	34.00	35.00	35.00	35.00
Pakistan	33.00	30.00	35.00	43.00	34.65
South Korea	30. 8 0	30.80	30.80	30.80	30.80
Thailand	30.00	30.00	30.00	30.00	30.00
Turkey	44.00	44.00	33.00	33.00	33.00
Zimbabwe	N.A.	N.A.	N.A.	N.A.	N.A.
Average	32.72	33.10	32.47	34.41	33.04

Table A.1: Comparisons of corporate income tax rate during 1997 and 2001 among G-7 countries and developing countries*.

*Sources: KPMG corporate tax rate survey

Table A.2: Comparisons of the rules of law and the enforcement of law during 1997 and 2001 among G-7 countries and developing countries^a.

The second column defines legal origin. The third to the seventh column show the corruption perception index.

Countries	Legal origin	Co	Corruption Perception Index (CPI) ^b				
		1997	1998	1999	2000	2001	
G-7 countries							
Canada	English origin	9.10	9.20	9.20	9.20	8.90	
France	French origin	6.66	6.70	6.60	6.70	6.70	
Germany	German origin	8.23	7.90	8.00	7.60	7.40	
Italy	French origin	5.03	4.60	4.70	4.60	5.50	
Japan	German origin	6.57	5.80	6.00	6.40	7.10	
United Kingdom	English origin	8.22	8.70	8.60	8.70	8.30	
United States	English origin	7.61	7.50	7.50	7.80	7.60	
Average		7.34	7.20	7.23	7.28	7.36	
Developing countries							
Brazil	French origin	3.56	4.00	4.10	3.90	4.00	
India	English origin	2.75	2.90	2.90	2.80	2.70	
Jordan	French origin	N.A.	4.70	4.40	4.60	4.90	
Malaysia	English origin	5.01	5.30	5.10	4.80	5.00	
Mexico	French origin	2.66	3.30	3.40	3.30	3.70	
Pakistan	English origin	2.53	2.70	2.20	N.A.	2.30	
South Korea	German origin	4.29	4.20	3.80	4.00	4.20	
Thailand	English origin	3.06	3.00	3.20	3.20	3.20	
Turkey	French origin	3.21	3.40	3.60	3.80	3.60	
Zimbabwe	English origin	N.A.	4.20	4.10	3.00	2.90	
Average		3.38	3.77	3.68	3.71	3.65	

^a. Sources: The classification of countries legal origin is gathered by La Porta et al. (1997). The Corruption Perception Indices (CPI) are collected from Transparency International. (<u>http://www.transparency.org</u>)

^{b.} The Transparency International (TI) Corruption Index is an initiative taken by the Berlin-based international non-governmental organization together with Dr.Johann Graf Lambsdorff, an economist with the University of Goettingen. It is an attempt to assess the level at which corruption is perceived by businessmen as impacting on commercial life. A highest score of ten implies an entirely clean country while a lowest score of zero suggests a country where business transactions are entirely dominated by kickbacks, extortion etc.. No country scores either ten or zero.

	1997	1998	1999	2000	2001
GDP growth rate (at 1988 prices) (%)	-1.4	-10.5	4.4	4.6	1.9
GDP (current price)	4,740.3	4,626.4	4,637.1	4,916.5	5,123.4
Equities (SET market capitalization)	1,133.3	1,268.2	2,193.1	1,279.2	1,607.3
Bank Loans	6,037.5	5,372.3	5,119.0	4,585.9	4,298.9
Domestic Bond (at par)	546.8	941.3	1,388.6	1,634.8	1,882.9
T-Bills	-	-	25.0	62.0	110.0
Government Bonds	13.8	426.9	587.1	658.7	706.4
State Enterprise Bonds	293.8	300.6	356.4	408.8	416.1
- Guaranteed	247.3	255.7	309.1	345.3	357.3
- Non-guaranteed	46.5	44.9	47.3	63.5	58.8
BOT/FIDF/PLMO Bonds	51.6	36.2	18.1	4.1	112.3
Corporate Bonds	187.6	177.6	402.0	501.2	538.1
Equities/GDP Bank Loans/GDP	0.24 1.27	0.27 1.16	0.47 1.10	0.26 0.93	0.31 0.84
Domestic Bond/GDP	0.04	0.04	0.09	0.10	0.10

Table A.3: Size of Thai financial markets* (unit: Billion Baht)

*Source: Thai Bond Dealers Club (http://www.thaibdc.or.th)

Table A.4: Summary of sample selection criteria

Numbers in the third to the last row indicate number of firms left with the specific criteria in each year.

Year		1997	1998	1999	2000	2001
Firms listed on the SET	SET-listed	436	419	392	383	389
Non-listed corporations submitted	Non-listed	150622	151114	155474	161620	156450
financial statements to MOC						
Firms with industry classification	SET-listed	249	259	261	258	251
and not in the financial industry	Non-listed	101007	109696	119710	132275	147147
Firms with positive equity	SET-listed	225	241	238	233	228
	Non-listed	81868	86959	94487	105264	117623
Firms with positive sales	SET-listed	223	238	237	233	227
1 1	Non-listed	60670	63400	68049	75323	84155
Firms with 3-year consecutive	SET-listed			211	218	210
financial statements	Non-listed			46369	50883	55745
Firms that are not bankrupt	SET-listed			210	217	209
1	Non-listed			46351	50856	55700
Non-listed firms left						
Financial statements approved	Non-listed			1783	1971	2135
by auditors with license from						
SEC						
Paid-up capital $\geq 100.000.000$	Non-listed			638	720	785
Baht						
SET-listed subsample	SET-listed			209	213	209
Non-listed subsample	Non-listed			209	213	209

The process in selecting the sample starts with 436, 419, 392, 383 and 389 public firms that were listed on the SET in 1997, 1998, 1999, 2000 and 2001 respectively. Then, after excluding firms that are classified as financial institutions (those with the first two digit of TSIC industry classification code as 81 and 82) and firms that do not have TSIC industry classification in the BOL database, there are 249, 259, 261, 258 and 251 SET-listed firms left in the subsample in 1997, 1998, 1999, 2000 and 2001 respectively. The SET-listed firms having negative or zero equity will be dropped from the sample since these samples will mislead the interpretation of the leverage ratio. Therefore, the sample size will further reduce to 225, 241, 238, 233 and 228 firms in 1997, 1998, 1999, 2000 and 2001 respectively. Furthermore, only SET-listed firms with positive sales will be included in the sample to exclude the non-

operating firms. Thus, the sample size of the SET-listed firms will be reduced to 223, 238, 237, 233 and 227 firms in 1997, 1998, 1999, 2000 and 2001 respectively. Since the methodology of dynamic capital structure investigation need the 2-year previous leverage ratio of the firm, the SET-listed firms incorporated in this study should have the three-year consecutive financial statements in the database. Therefore, the sample size of the SET-listed firms will be reduced to 211, 218 and 210 firms in 1999, 2000 and 2001 respectively. Then, the defaulted firms designated as dissolved (no matter account unresolved or account resolved), bankrupt or absolute receivership will be deleted from the sample, leaving 210, 217 and 209 non-defaulted firms in 1999, 2000 and 2001 respectively.

Then, we will try to match the non-listed firms with the SET-listed firms specified above. There are totally 150622, 151114, 155474, 161620 and 156450 private corporations registered with the Ministry of Commerce (MOC) and submitted their financial statements in 1997, 1998, 1999, 2000 and 2001 respectively. Then, after excluding firms that are classified as financial institutions and firms that do not have TSIC industry classification in the BOL database, there are 101007, 109696, 119710, 132275 and 147147 private corporations left in the subsample in 1997, 1998, 1999, 2000 and 2001 respectively. Then, the sample size will further reduce to 81868, 86959, 94487, 105264 and 117623 firms in 1997, 1998, 1999, 2000 and 2001 respectively after dropping firms having negative or zero equity. Furthermore, the limitation of positive sales will reduce the sample size to 60670, 63400, 68049, 75323 and 84155 firms in 1997, 1998, 1999, 2000 and 2001 respectively. With the need of three-year consecutive financial statements, the sample size of the non-listed firms will be reduced to 46369, 50883 and 55745 firms in 1998, 1999, 2000 and 2001 respectively. Then, the defaulted firms designated as dissolved (no matter account

unresolved or account resolved), bankrupt or absolute receivership will be deleted from the sample, resulting in 46351, 50856 and 55700 non-defaulted firms in 1999, 2000 and 2001 respectively.

Since the financial statement of the listed firms have to be examined by the auditors permitted by the office of the Securities and Exchange Commission (SEC), this study investigates only private corporations which their financial statements were approved by auditors permitted by the office of the SEC. Therefore, the potential problems associated with different accounting standards between listed and non-listed firms will be controlled. At this point, the sample size will be reduced to 1783, 1971 and 2135 firms in 1999, 2000 and 2001 respectively. However, in the sample period, the SET have set the criteria of 100 million baht minimum paid-up capital after IPO for firms that would like to be listed, although the minimum paid-up capital have raised to be 200 million baht nowadays. In order to be able to compare the capital structure decisions between listed and non-listed firms, we exclude the non-listed firms having less than 100 million baht paid-up capital. With these sample selection criteria, the private firms in the sample can be assumed with the intentions not to be listed. Then, the sample size will be reduced to 638, 720 and 785 firms in 1999, 2000 and 2001 respectively.

Finally, after controlling the industry classification, each non-listed firms to be matched with SET-listed firms must have the least differences in total assets. In total 631 SET listed observations (firms-year) and 631 non-listed matched observations (firms-year) are used in the sample. In detailed, each subsample consists of 209, 213 and 209 firms in 1999, 2000 and 2001 respectively.

Biography



My name is Mr. Dhanawat Siriwattanakul. I was born on December 31st, 1972 in Bangkok. I have graduated from the faculty of engineering majoring in civil engineering with the second class honour of bachelor of engineering in 1993. I have graduated from Sasin, Chulalongkorn with distinction of the master of business administration majoring in finance and marketing in 1998. Now, I am lecturer at the department of finance of the faculty of business administration of Kasetsart University.