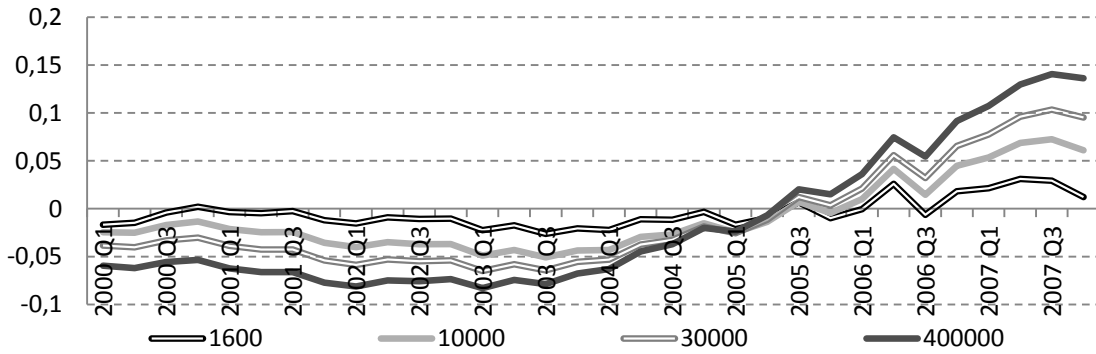


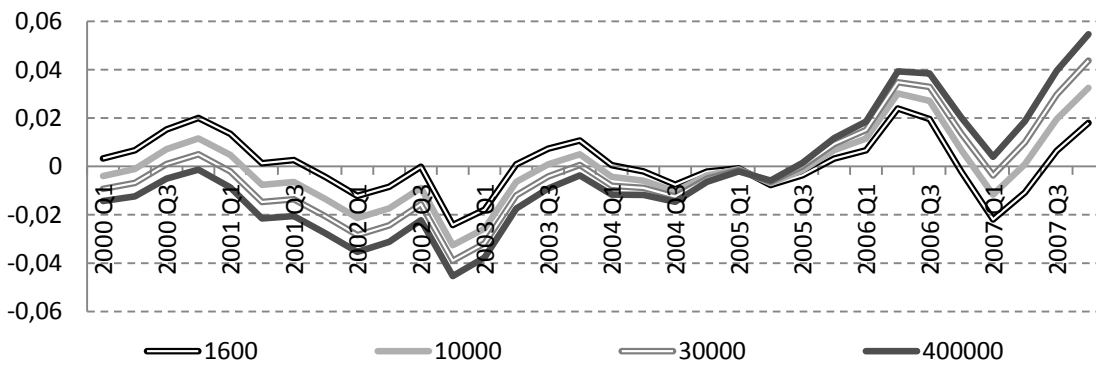
# Appendix

## Appendix A: Comparison of different level of $\lambda$ for CEE countries until 2008 (graphs)

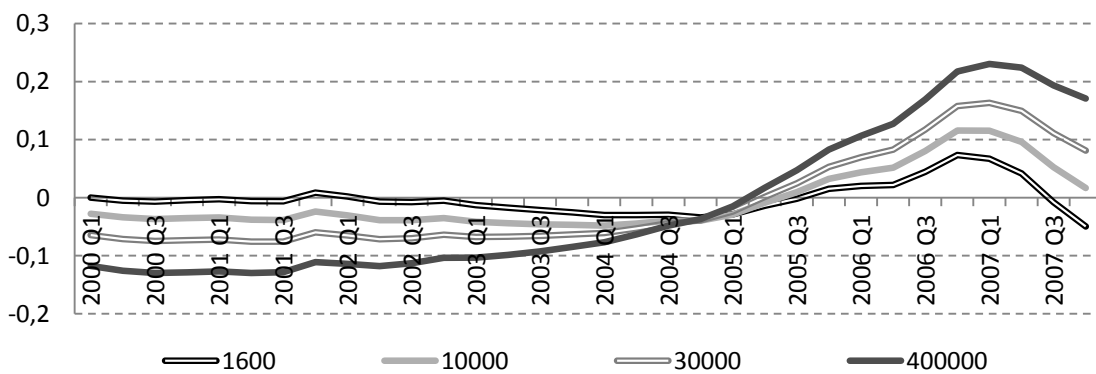
### Estonia



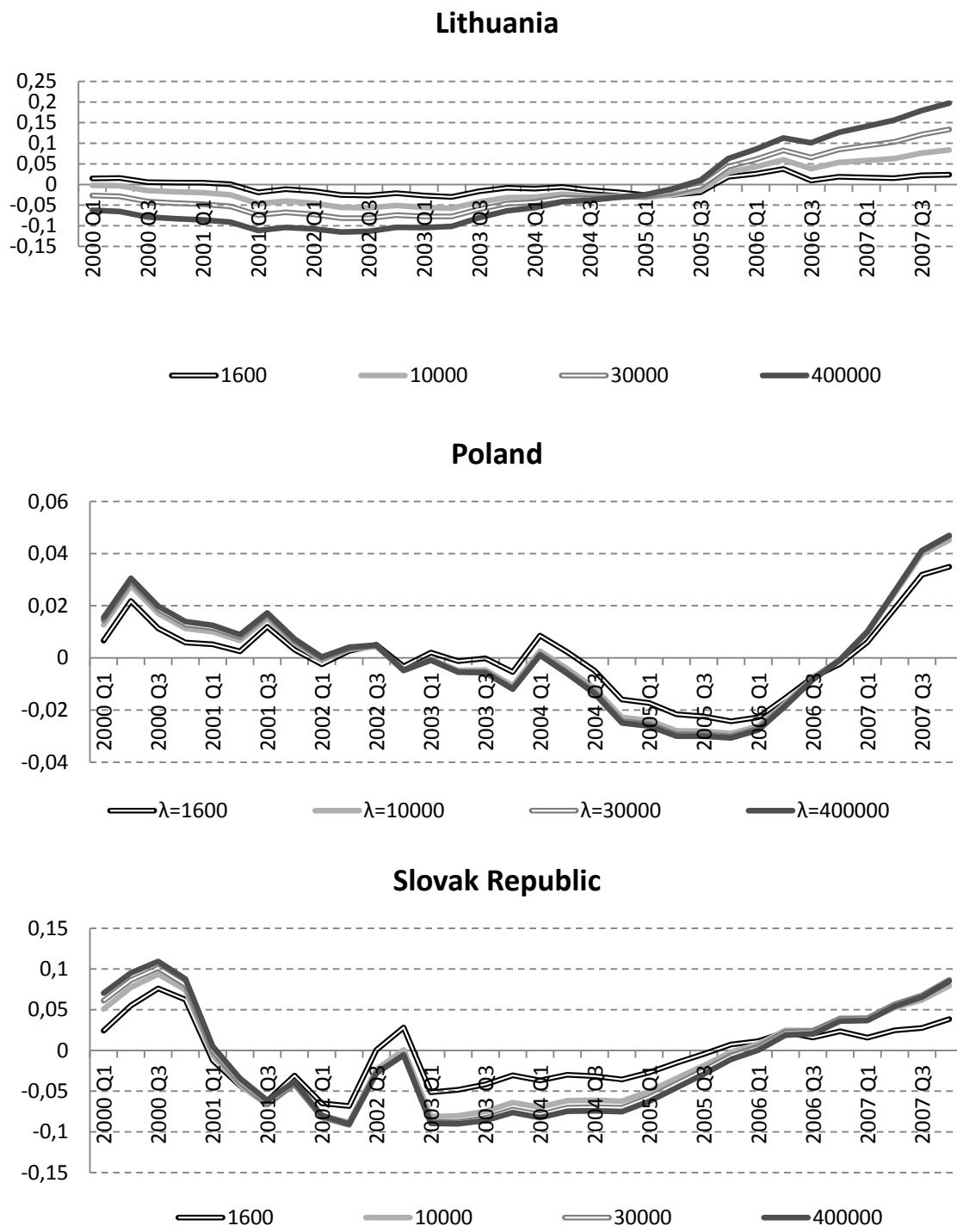
### Hungary



### Latvia



**Appendix A:** Comparison of different level of  $\lambda$  for CEE countries until 2008.



(Source: IMF IFS, author's calculation)

**Appendix B:** Comparison with the countries which have experienced the period of consolidation (table)

The table shows annual growth in credit, where negative values are highlighted in gray. Substantial period of consolidation is visible mainly in Czech and Slovak Republic.

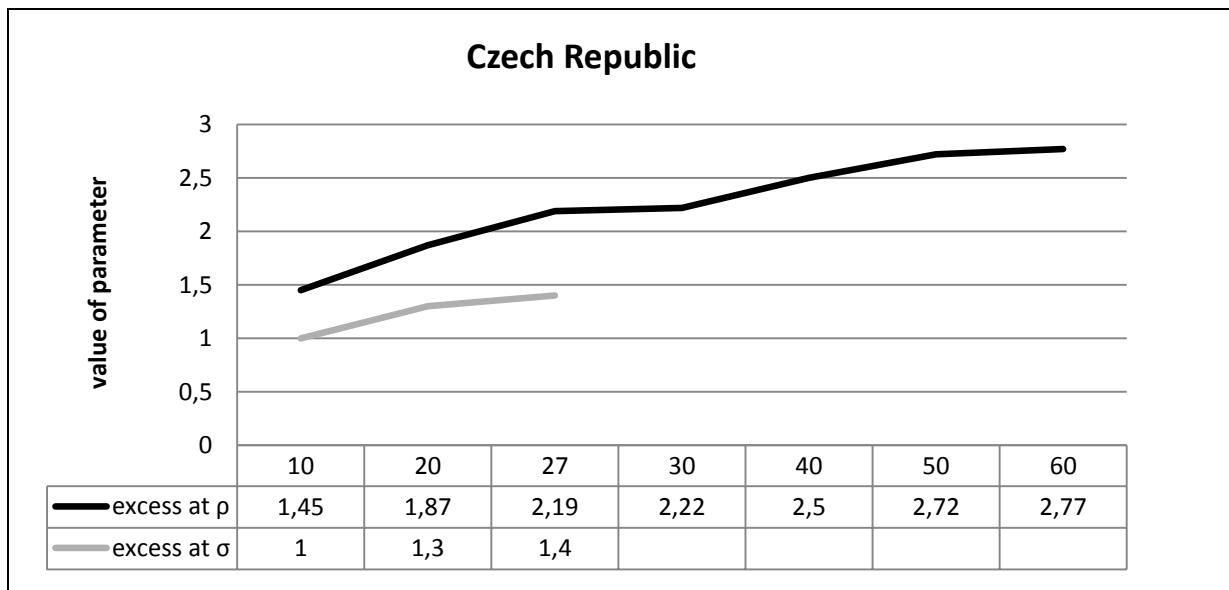
year	Czech Republic	Estonia	Hungary	Latvia	Lithuania	Poland	Slovakia
1994 Q1	21,537	656,7	21,681	18,888	244,6	2187,2	-17364
1994 Q2	36,612	484,92	47,063	32,563	320,1	1695,4	-5009
1994 Q3	36,473	307,76	30,61	18,294	243,8	1718,4	-6444
1994 Q4	77,977	249,63	49,706	34,6	567,5	3033,6	-3832
1995 Q1	10,362	226,41	69,9	19,201	388,7	3295,8	4894
1995 Q2	47,155	758,32	-8,769	-15,431	168,4	3207	-10121
1995 Q3	38,362	653,27	22,982	-18,18	64,1	4104,26	-20710
1995 Q4	36,459	832,52	26,156	-151,73	-73,2	4430,74	36133
1996 Q1	33,604	802,97	-20,497	-7,171	-231,9	3449	26132
1996 Q2	45,289	1046,82	3,183	0,713	-59,3	4588	14736
1996 Q3	23,977	1265,09	74,351	1,258	-4,3	6481	19080
1996 Q4	14,439	2309,821	200,552	16,784	29	9729,8	8520
1997 Q1	38,238	1493,646	114,3	18,908	125,9	6662,81	115880
1997 Q2	31,074	2486,169	144,375	33,415	-7,5	6411,59	3510
1997 Q3	11,312	3766,375	115,164	49,061	77,5	7410,7	2408
1997 Q4	15,86	2189,22	182,313	69,588	550,3	5615,5	-2863
1998 Q1	-0,477	1107,551	49,949	58,601	355,4	6322,6	19204
1998 Q2	-20,185	1145,343	155,054	68,649	268,5	6598,6	-6109
1998 Q3	-6,359	637,62	150,819	62,896	355	8151,4	-2432
1998 Q4	-47,115	-160,333	7,705	0,437	201,8	7130,8	11081
1999 Q1	4,261	-811,547	91,181	18,705	367,6	9597,4	21543
1999 Q2	-8,939	-141,558	95,007	9,987	276,2	6637,8	8451
1999 Q3	-21,305	544,538	129,965	17,805	147,8	11014,6	2225
1999 Q4	-51,807	1985,66	211,468	39,932	-129,9	7080,2	7223
2000 Q1	-41,552	640,367908	406,49	48,014	-322	6630,9	-29264
2000 Q2	-16,501	1880,89955	243,288	42,749	161,8	18607,6	29065
2000 Q3	1,895	2697,72932	340,852	62,401	-278,1	8,7	23399
2000 Q4	-12,419	2875,696887	288,935	92,104	195,6	2684,2	-4425
2001 Q1	9,881	1434,462335	164,173	86,902	205,3	4746,8	-72423
2001 Q2	10,412	2203,491	139,457	81,728	111,6	2752,2	-32542
2001 Q3	-129,2117	2637,068	305,715	91,402	-598,3	10961	-22811
2001 Q4	-4,6089	1453,097	168,905	198,451	836,3	-3643,9	28226
2002 Q1	-159,1234	2073,753148	197,164	81,395	219,7	-462,7	-39278,3
2002 Q2	-39,864	3614,7932	342,839	82,402	79,8	7549,4	-9188,4
2002 Q3	-4,528	2772,477167	454,935	150,38	609,1	5157,2	72783,2
2002 Q4	7,757	3367,027601	-31,577	187,309	907,1	-3010,6	31153,5
2003 Q1	4,723	2377,452123	355,506	133,077	514,2	7621,4	-88666
2003 Q2	8,986	4414,334073	654,084	166	688,5	1596,3	4750
2003 Q3	13,181	3034,940683	467,54	193	1731,9	4911,8	9403,5
2003 Q4	34,972	4869,356022	522,574	206	1639,8	712,3	18391,4

(Source: IMF IFS, author's calculation)

**Appendix C:** Relationship between the length of time series and value of parameter (graph)

This graph shows how with increasing number of observations (horizontal axis) we have to adjust the value of given parameter in order to obtain same results (in this case we compare results on the period of excessiveness in Czech Republic in 2007 Q2).

Blank spaces in the case of Average trend credit indicator are omitted due to problems with consolidation in this period (including the previous values would bias all the results).



(Source: IMF IFS, author's calculation)

**Appendix D:** Computation of the *countercyclical capital buffer* with  $\lambda=20000$  for Czech Republic (table)

This table compares different level of lambda in case of Czech Republic and also demonstrates the amount of the buffer in different periods (method for buffer calculation is taken from BCBS (2010b: 13)).

Year	GDP Adjusted, Nominal, Billions CZK	Claims on Private Sector, Billions CZK	Credit-to-GDP in %	gap in % $\lambda=20000$	trend in % $\lambda=20000$	gap in % $\lambda=400000$	trend in % $\lambda=400000$	Buffer as % of RWA ( $\lambda=400000$ )
2000 Q1	2103,381	1056,918	50,249	-0,671	50,919	-3,270	53,519	0
2000 Q2	2129,104	1040,417	48,866	-0,963	49,829	-3,733	52,600	0
2000 Q3	2157,419	1042,312	48,313	-0,449	48,762	-3,371	51,684	0
2000 Q4	2189,169	1029,893	47,045	-0,674	47,719	-3,726	50,770	0
2001 Q1	2224,814	1039,774	46,735	0,031	46,704	-3,125	49,860	0
2001 Q2	2264,965	1050,186	46,367	0,646	45,720	-2,586	48,953	0
2001 Q3	2306,447	920,974	39,930	-4,839	44,770	-8,118	48,049	0
2001 Q4	2352,214	916,365	38,958	-4,897	43,855	-8,191	47,148	0
2002 Q1	2388,755	757,242	31,700	-11,279	42,979	-14,551	46,251	0
2002 Q2	2420,054	717,378	29,643	-12,501	42,144	-15,714	45,357	0
2002 Q3	2441,796	712,850	29,194	-12,159	41,352	-15,274	44,467	0
2002 Q4	2464,432	720,607	29,240	-11,364	40,604	-14,341	43,581	0
2003 Q1	2486,152	725,330	29,175	-10,725	39,900	-13,524	42,698	0
2003 Q2	2516,412	734,316	29,181	-10,060	39,241	-12,638	41,819	0
2003 Q3	2546,199	747,497	29,357	-9,268	38,625	-11,586	40,944	0
2003 Q4	2577,110	782,469	30,362	-7,690	38,052	-9,709	40,071	0
2004 Q1	2629,173	800,944	30,464	-7,057	37,520	-8,738	39,202	0
2004 Q2	2683,935	830,758	30,953	-6,075	37,028	-7,383	38,336	0
2004 Q3	2745,247	869,506	31,673	-4,899	36,572	-5,799	37,473	0
2004 Q4	2814,762	886,835	31,507	-4,644	36,150	-5,105	36,612	0
2005 Q1	2859,495	923,466	32,295	-3,465	35,760	-3,459	35,753	0
2005 Q2	2903,688	978,137	33,686	-1,712	35,398	-1,211	34,897	0
2005 Q3	2945,111	1028,908	34,936	-0,125	35,062	0,893	34,043	0
2005 Q4	2983,862	1076,866	36,090	1,343	34,747	2,900	33,190	0
2006 Q1	3038,359	1118,606	36,816	2,366	34,450	4,477	32,339	0,114
2006 Q2	3091,185	1186,718	38,390	4,222	34,169	6,902	31,488	0,694
2006 Q3	3157,344	1242,967	39,367	5,468	33,899	8,728	30,639	1,084
2006 Q4	3222,369	1312,938	40,744	7,105	33,639	10,954	29,790	1,595
2007 Q1	3303,406	1367,463	41,396	8,010	33,385	12,454	28,942	1,878
2007 Q2	3384,001	1476,447	43,630	10,495	33,135	15,536	28,094	2,5
2007 Q3	3459,346	1579,176	45,650	12,762	32,888	18,403	27,246	2,5
2007 Q4	3535,460	1686,422	47,700	15,060	32,641	21,302	26,398	2,5

(Source: IMF IFS, author's calculation)