

Tests To run														
ID	N	p = 1/N	n (attacks p period)	Attack Speed (msec)	T=Period Time (sec)	Theoretic Values			Empirical		Total Periods to Test	Time Min	Hours	Expected Periods Without Attack (NA)
						P Not Att	Mean Att (n . p)	Mode	Mean Attacks	STD				
98_N0512_T0005_AS500_E100_NA98	512	0.001953125	10	500	5	98.06%	0.02				100	8.33	0.14	98.06
76_N0512_T0070_AS500_E100_NA76	512	0.001953125	140	500	70	76.06%	0.27				100	116.67	1.94	76.06
50_N0512_T0177_AS500_E100_NA50	512	0.001953125	354	500	177	50.05%	0.69				100	295.00	4.92	50.05
24_N0512_T0365_AS500_E050_NA12	512	0.001953125	730	500	365	24.00%	1.43				50	304.17	5.07	12.00
10_N0512_T0589_AS500_E050_NA05	512	0.001953125	1178	500	589	10.00%	2.30				50	490.83	8.18	5.00
98_N1024_T0010_AS500_E100_NA98	1024	0.0009765625	20	500	10	98.06%	0.02				100	16.67	0.28	98.06
76_N1024_T0140_AS500_E050_NA38	1024	0.0009765625	280	500	140	76.07%	0.27				50	116.67	1.94	38.03
50_N1024_T0355_AS500_E050_NA25	1024	0.0009765625	710	500	355	49.97%	0.69				50	295.83	4.93	24.99
24_N1024_T0730_AS500_E025_NA06	1024	0.0009765625	1460	500	730	24.02%	1.43				25	304.17	5.07	6.00
10_N1024_T1179_AS500_E020_NA02	1024	0.0009765625	2358	500	1179	9.99%	2.30				20	393.00	6.55	2.00 rare
98_N2048_T0021_AS500_E100_NA98	2048	0.00048828125	42	500	21	97.97%	0.02				100	35.00	0.58	97.97
76_N2048_T0281_AS500_E050_NA38	2048	0.00048828125	562	500	281	76.00%	0.27				50	234.17	3.90	38.00
50_N2048_T0710_AS500_E030_NA15	2048	0.00048828125	1420	500	710	49.98%	0.69				30	355.00	5.92	14.99
24_N2048_T1461_AS500_E025_NA06	2048	0.00048828125	2922	500	1461	24.00%	1.43				25	608.75	10.15	6.00
10_N2048_T2357_AS500_E020_NA02	2048	0.00048828125	4714	500	2357	10.00%	2.30				20	785.67	13.09	2.00 rare
%notAttack_N_TPeriodTimeSec_ASAttackerSpeed_Experiments(TotalPeriods)_NotAttackedPeriods														
Haaken Experiments														
	Date measured	ID	Experiment	Successful attacks	periods		Empirical		Theoretical	Difference				
	8. Feb	98_N0512_T0005_AS500_E100_NA98		0	4		100	96.00%	98.06%	2.06%				
	8. Feb	76_N0512_T0070_AS500_E100_NA76		0	18		100	82.00%	76.06%	-5.94%				
	11. Feb	76_N0512_T0070_AS500_E100_NA76		1	29		100	71.00%	76.00%	5.00%				
	9. Feb	98_N1024_T0010_AS500_E100_NA98		0	2		100	98.00%	98.06%	0.06%				
	9. Feb	76_N1024_T0140_AS500_E050_NA38		0	24		50	52.00%	76.07%	24.07%				
	9. Feb	98_N2048_T0021_AS500_E100_NA98		0	0		100	100.00%	97.97%	-2.03%				
	9. Feb	76_N2048_T0281_AS500_E050_NA38		0	18		50	64.00%	76.00%	12.00%				
	9. Feb	76_N2048_T0281_AS500_E050_NA38		1	12		50	76.00%	76.00%	0.00%				
	night to	13. Feb	50_N0512_T0177_AS500_E100_NA50	0	52		100	48.00%	50.05%	2.05%				
	night to	13. Feb	24_N0512_T0365_AS500_E050_NA12	0	37		50	26.00%	24.00%	-2.00%				
		13. Feb	10_N0512_T0589_AS500_E050_NA05	0	45		50	10.00%	10.00%	0.00%				
	night to	14. Feb	50_N1024_T0355_AS500_E050_NA25	0	25		50	50.00%	49.97%	-0.03%				
	night to	14. Feb	24_N1024_T0730_AS500_E025_NA06	0	19		25	24.00%	24.02%	0.02%				
		14. Feb	10_N1024_T1179_AS500_E020_NA02	0	18		20	10.00%	9.99%	-0.01%				
		15. Feb	50_N2048_T0710_AS500_E030_NA15	0	12		30	60.00%	49.98%	-10.02%				
	night to	17. Feb	24_N2048_T1461_AS500_E025_NA06	0	22		25	12.00%	24.00%	12.00%				
	night to	17. Feb	10_N2048_T2357_AS500_E020_NA02	0	20		20	0.00%	10.00%	10.00%				
		18. Feb	98_N2048_T0021_AS500_E100_NA98	0	1		100	99.00%	97.97%	-1.03%				
		18. Feb	76_N2048_T0281_AS500_E050_NA38	1	12		50	76.00%	76.00%	0.00%				
		18. Feb	50_N2048_T0710_AS500_E030_NA15	1	13		30	56.67%	49.98%	-6.69%				
		19. Feb	24_N2048_T1461_AS500_E025_NA06	1	14		25	44.00%	24.00%	-20.00%				
	night to	20. Feb	10_N2048_T2357_AS500_E020_NA02	1	19		20	5.00%	10.00%	5.00%				
		20. Feb	98_N1024_T0010_AS500_E100_NA98	1	3		100	97.00%	98.06%	1.06%				
		20. Feb	76_N1024_T0140_AS500_E050_NA38	1	15		50	70.00%	76.07%	6.07%				
		20. Feb	50_N1024_T0355_AS500_E050_NA25	1	22		50	56.00%	49.97%	-6.03%				
		21. Feb	24_N1024_T0730_AS500_E025_NA06	1	10		25	60.00%	24.02%	-35.98%				
		22. Feb	98_N0512_T0005_AS500_E100_NA98	1	2		100	98.00%	98.06%	0.06%				
		22. Feb	76_N0512_T0070_AS500_E100_NA76	1	27		100	73.00%	76.06%	3.06%				
		22. Feb	50_N0512_T0177_AS500_E100_NA50	1	46		100	54.00%	50.05%	-3.95%				
		23. Feb	98_N1024_T0010_AS500_E100_NA98	1	2		100	98.00%	98.06%	0.06%				
		23. Feb	76_N1024_T0140_AS500_E050_NA38	1	13		50	74.00%	76.07%	2.07%				
		23. Feb	50_N1024_T0355_AS500_E050_NA25	1	30		50	40.00%	49.97%	9.97%				
	night to	24. Feb	24_N0512_T0365_AS500_E050_NA12	1	37		50	26.00%	24.00%	-2.00%				
	night to	24. Feb	10_N0512_T0589_AS500_E050_NA05	1	43		50	14.00%	10.00%	-4.00%				
		24. Feb	24_N1024_T0730_AS500_E025_NA06	1	21		25	16.00%	24.02%	8.02%				
		24. Feb	10_N1024_T1179_AS500_E020_NA02	1	19		20	5.00%	9.99%	4.99%				
		25. Feb	98_N0512_T0005_AS500_E100_NA98	2	4		100	96.00%	98.06%	2.06%				
		25. Feb	76_N0512_T0070_AS500_E100_NA76	2	18		100	82.00%	76.06%	-5.94%				
		25. Feb	50_N0512_T0177_AS500_E100_NA50	2	46		100	54.00%	50.05%	-3.95%				

	night to	26. Feb	24_N0512_T0365_AS500_E050_NA12	2	33	50	34.00%	24.00%	-10.00%							
	night to	26. Feb	10_N0512_T0589_AS500_E050_NA05	2	41	50	18.00%	10.00%	-8.00%							
		26. Feb	98_N1024_T0010_AS500_E100_NA98	2	2	100	98.00%	98.06%	0.06%							
		26. Feb	76_N1024_T0140_AS500_E050_NA38	2	16	50	68.00%	76.07%	8.07%							
		26. Feb	50_N1024_T0355_AS500_E050_NA25	2	22	50	56.00%	49.97%	-6.03%							
	night to	27. Feb	24_N1024_T0730_AS500_E025_NA06	2	19	25	24.00%	24.02%	0.02%							
	night to	27. Feb	10_N1024_T1179_AS500_E020_NA02	2	16	20	20.00%	9.99%	-10.01%							
		27. Feb	98_N1024_T0010_AS500_E100_NA98	3	3	100	97.00%	98.06%	1.06%							
		27. Feb	76_N1024_T0140_AS500_E050_NA38	3	7	50	86.00%	76.07%	-9.93%							
		27. Feb	50_N1024_T0355_AS500_E050_NA25	3	24	50	52.00%	49.97%	-2.03%							
	night to	28. Feb	24_N1024_T0730_AS500_E025_NA06	3	18	25	28.00%	24.02%	-3.98%							
	night to	28. Feb	10_N1024_T1179_AS500_E020_NA02	3	19	20	5.00%	9.99%	4.99%							

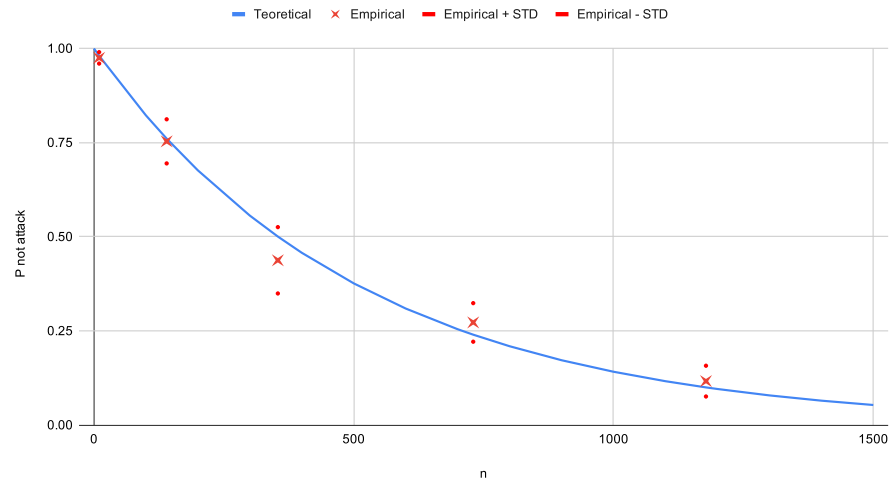
Tests To run						Theoretic Values										
ID	N	p = 1/N	n (attacks p period)	Attack Speed (msec)	=Period Time (sec)	P Not Att	Mean Att (n . p)	n	Not Attack	Not Att STD	Total Periods to	Time Min	Hours	Expected Periods Witho	Periods WITH At least 1 attack	
98_N0512_T0005_AS	512	0.001953125	10	500	5	98.06%	0.02	10	0.975	0.015	100	8.33	0.14	98.06	2	
76_N0512_T0070_AS	512	0.001953125	140	500	70	76.06%	0.27	140	0.753	0.059	100	116.67	1.94	76.06	24	
50_N0512_T0177_AS	512	0.001953125	354	500	177	50.05%	0.69	354	0.438	0.088	100	295.00	4.92	50.05	50	
24_N0512_T0365_AS	512	0.001953125	730	500	365	24.00%	1.43	730	0.273	0.051	50	304.17	5.07	12.00	38	
10_N0512_T0589_AS	512	0.001953125	1178	500	589	10.00%	2.30	1178	0.117	0.041	50	490.83	8.18	5.00	45	
Total hours ALL exp				485.8486111												
total hours				121.0416667												
TESTS																
ID	Experiment	Successful attack	periods	Empirical P Not Attack												
98_N0512_T0005_AS	0	4	100	0.96												
	1	2	100	0.98												
	2															
	3															
	R1	3	100	0.97												
	R2	0	100	1												
	R3	2	100	0.98												
76_N0512_T0070_AS		RN	4	100	0.96											
	0	18	100	0.82												
	We are OK but we need more	1	29	100	0.71											
	2	27	100	0.73												
	3															
50_N0512_T0177_AS		RN														
	0	52	100	0.48												
	We are OK but we need more	1	46	100	0.54											
	2															
24_N0512_T0365_AS	3															
		62	100	0.38	sad to see											
	RN	65	100	0.35	sad to see											
1. Fe	0	37	50	0.26												
	1	37	50	0.26												
	2	33	50	0.34												
3. Fe	3															
	R	37	50	0.26												
	R	39	50	0.22												
26-02 15h00 A	R	35	50	0.3												
25-02 23h05 B	R1	28	50													
25-02 23h00 A	R2	40	50	0.2												
24-02 07h45 B	RN	33	50	0.34												
10_N0512_T0589_AS	0	45	50	0.1												
	1. Fe	1	43	50	0.14											
	3. Fe	2	41	50	0.18											
	3															
02-27 2h40 A	R	47	50	0.06												
02-23 11h45	R1	44	50	0.12												
02-24 00h05	RN	45	50	0.1												
Theoretical																
n	Theoretical	Empirical	Empirical + STD	Empirical - STD												
0	1															
10	0.9806395204	0.975	0.990	0.960												
100	0.8224204786															
140	0.7605564998	0.753	0.812	0.695												
200	0.6763754436															

P not attack vs. n

n	Empirical (x)	Empirical + STD (dot)	Empirical - STD (dot)
0	0.98	0.98	0.98
10	0.98	0.98	0.98
140	0.75	0.78	0.72
365	0.45	0.52	0.38
730	0.28	0.32	0.24
1178	0.12	0.15	0.09

Very RARE-Suspicious

P not attack vs. n

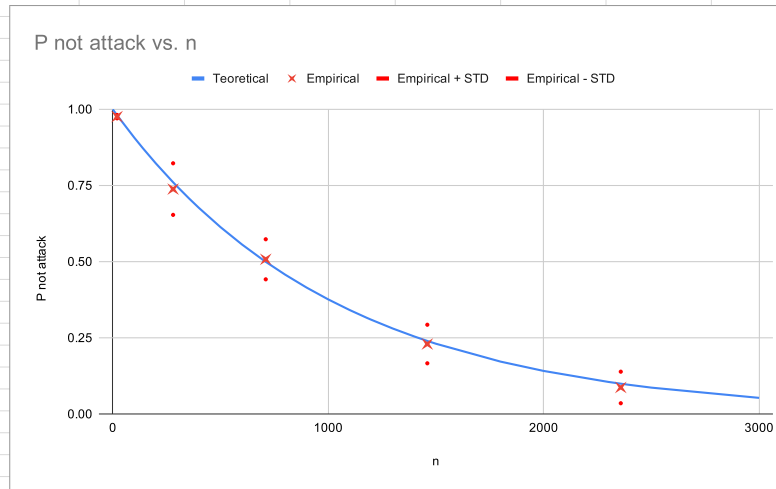


Very RARE-Suspicious

	300	0.556265016														
	354	0.5005327079	0.438	0.526	0.349											
	400	0.4574837407														
	500	0.376243997														
	600	0.3094307681														
	700	0.2544822004														
	730	0.2399858225	0.273	0.324	0.221											
	800	0.209291373														
	900	0.1721255112														
	1000	0.1415595453														
	1100	0.116421469														
	1178	0.09995541558	0.117	0.157	0.076											
	1200	0.09574740023														
	1300	0.07874462272														
	1400	0.0647611903														
	1500	0.05326092912														

Tests To run						Theoretic Values									
ID	N	p = 1/N	n (attacks p period)	Attack Speed (msec)	=Period Time (sec)	P Not Att	Mean Att (n . p)	n	Not Attack	Not Att STD	Total Periods to	Time Min	Hours	Expected Periods Witho	Periods WITH At least 1 attack
98_N1024_T0010_AS	1024	0.0009765625	20	500	10	98.06%	0.02	20	0.976	0.005	100	16.67	0.28	98.06	
76_N1024_T0140_AS	1024	0.0009765625	280	500	140	76.07%	0.27	280	0.738	0.085	50	116.67	1.94	38.03	
50_N1024_T0355_AS	1024	0.0009765625	710	500	355	49.97%	0.69	710	0.508	0.066	50	295.83	4.93	24.99	
24_N1024_T0730_AS	1024	0.0009765625	1460	500	730	24.02%	1.43	1460	0.230	0.063	25	304.17	5.07	6.00	
10_N1024_T1179_AS	1024	0.0009765625	2358	500	1179	9.99%	2.30	2358	0.088	0.052	20	393.00	6.55	2.00	rare
				485.8486111											
			total hours		147.4										
TESTS															
ID	Experiment	Successful attack	periods	Empirical P Not Attack!											
98_N1024_T0010_AS	0	2	100	0.98											
20. Feb	1	3	100	0.97											
23. Feb	2	2	100	0.98											
26. Feb	3	2	100	0.98											
27. Feb	4	3	100	0.97											
	RN														
76_N1024_T0140_AS	0	24	50	0.52											
20. Feb	1	15	50	0.7											
23. Feb	2	13	50	0.74											
26. Feb	3	16	50	0.68											
27. Feb	4	7	50	0.86											
02-25 20h00 B	R1	12	50	0.76											
02-25 20h00 A	R2	13	50	0.74											
02-26 10h00 B	R3	9	50	0.82											
02-26 12h35 B	R4	11	50	0.78											
02-26 15h00 B	R5	12	50	0.76											
02-27 21h38 B	R6	11	50	0.78											
02-25 15h55 A	RN	14	50	0.72											
50_N1024_T0355_AS	0	25	50	0.5											
20. Feb OK	1	22	50	0.56											
23. Feb	2	30	50	0.4											
26. Feb	3	22	50	0.56											
27. Feb	4	24	50	0.52											
	RN														
24_N1024_T0730_AS	0	19	25	0.24											
21. Feb	1	10	25		maybe hping finished in the last part?										
24. Feb	2	21	25	0.16											
27. Feb	3	19	25	0.24											
28. Feb		18	25	0.28											
02-25 08h45	R1	17	25	0.32											
02-25 00h05	R2	22	25	0.12											
02-24 13h42	R3	19	25	0.24											
02-24 07h15	RN	19	25	0.24											
10_N1024_T1179_AS	0	18	20	0.1											
24. Feb	1	19	20	0.05											
27. Feb	2	16	20	0.2											
28. Feb	3	19	20	0.05											
	R1	19	20	0.05											
	R2	19	20	0.05											
	R3	18	20	0.1											
	RN	18	20	0.1											
Theoretical	1024														
n	Theoretical	Empirical	Empirical + STD	Empirical - STD											

P not attack vs. n

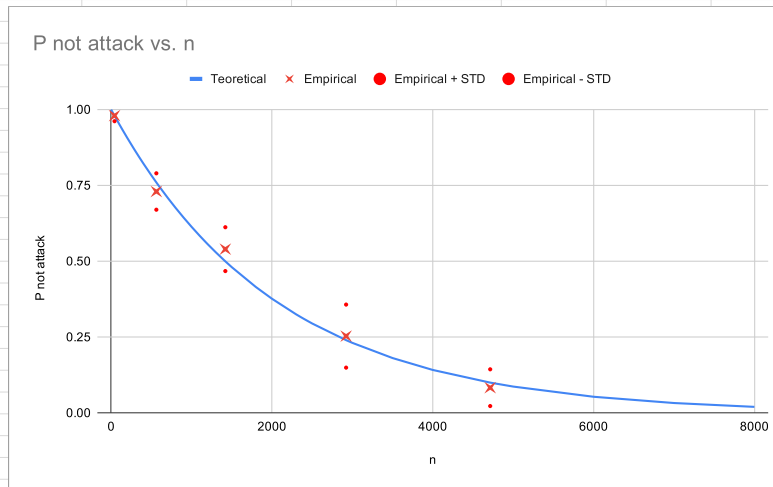


maybe hping finished in he last part?

	0	1														
	10	0.9902771788														
	20	0.9806488908	0.976	0.981	0.971											
	100	0.9069173435														
	140	0.8721572396														
	200	0.8224990679														
	280	0.7606582506	0.738	0.823	0.654											
	300	0.7459386697														
	354	0.7076030295														
	400	0.6765047167														
	500	0.6135338606														
	600	0.556424499														
	700	0.5046310285														
	710	0.4997245912	0.508	0.574	0.442											
	800	0.4576586318														
	900	0.4150585505														
	1000	0.3764237981														
	1100	0.341385271														
	1178	0.3163352516														
	1200	0.309608223														
	1300	0.2807890672														
	1400	0.2546524749														
	1460	0.2401532817	0.230	0.293	0.167											
	1500	0.230948746														
	1800	0.1722736004														
	2000	0.1416948757														
	2300	0.1056956871														
	2358	0.09987264151	0.088	0.139	0.036											
	2400	0.09585725178														
	2500	0.08693460414														
	3000	0.05333732329														

Tests To run						Theoretic Values			Empirical		Total Periods to				Time Min		Hours		Expected Periods Witho		Periods WITH At least 1 attack	
ID	N	p = 1/N	n (attacks p period)	Attack Speed (msec)	=Period Time (sec)	P Not Att	Mean Att (n . p)	n	Not Attack	Not Att STD												
98_N2048_T0021_AS	2048	0.00048828125	42	500	21	97.97%	0.02	42	0.980	0.018	100	35.00	0.58	97.97								
76_N2048_T0281_AS	2048	0.00048828125	562	500	281	76.00%	0.27	562	0.730	0.060	50	234.17	3.90	38.00								
50_N2048_T0710_AS	2048	0.00048828125	1420	500	710	49.98%	0.69	1420	0.540	0.072	30	355.00	5.92	14.99								
24_N2048_T1461_AS	2048	0.00048828125	2922	500	1461	24.00%	1.43	2922	0.253	0.104	25	608.75	10.15	6.00								
10_N2048_T2357_AS	2048	0.00048828125	4714	500	2357	10.00%	2.30	4714	0.083	0.061	20	785.67	13.09	2.00	rare							
			Total hours ALL exp		485.8486111																	
			total hours		217.4069444																	
TESTS																						
ID	Experiment	Successful attack periods		Empirical P Not Attackl																		
18. Feb	98_N2048_T0021_AS	0	0	100	1																	
		1	1	100	0.99																	
		2																				
		3																				
02-26 20h00 A		R1	4	100	0.96																	
		RN	3	100	0.97																	
18. Feb	76_N2048_T0281_AS	0	18	50	0.64																	
		1	12	50	0.76																	
		2	12	50	0.76																	
		3																				
02-26 17h40 B		RN	12	50	0.76																	
15. Feb	50_N2048_T0710_AS	0	12	30	0.6																	
18. Feb		1	13	30	0.5666666667																	
		2																				
		3																				
02-25 11h00		R1	17	30	0.4333333333																	
02-25 00h05		R2	15	30	0.5																	
02-24 13h45		RN	12	30	0.6																	
19. Feb	24_N2048_T1461_AS	0	22	25	0.12																	
		1	14	25	0.44																	
		2																				
		3																				
02-27 14h30		R1	19	25	0.24																	
		R2	16	25	0.36																	
		R3	19	25	0.24																	
		R4	18	25	0.28																	
02-28 00h44 A		R5	18	25	0.28																	
02-29 00h05 A		R6	20	25	0.2																	
		RN	22	25	0.12																	
20. Feb	10_N2048_T2357_AS	0	20	20	0																	
		1	19	20	0.05																	
		2																				
		3																				
		R1	18	20	0.1																	
		R2	17	20	0.15																	
		R3	19	20	0.05																	
	RN	17	20	0.15																		
Detailed Renzo Tests:																						
Theoretical		2048																				
n	Theoretical	Empirical	Empirical + STD	Empirical - STD																		
0	1																					
10	0.9951279024																					
20	0.9902795421																					
42	0.9796961358	0.980																		0.962		
100	0.9523334434																					

P not attack vs. n



	140	0.9339091925													
	200	0.9069389875													
	280	0.8721863799													
	300	0.8637083289													
	354	0.8412269683													
	400	0.822538327													
	500	0.7833307573													
	562	0.7599663827	0.730	0.790	0.670										
	600	0.7459920775													
	700	0.7104332039													
	710	0.706971904													
	800	0.6765692994													
	900	0.6443195706													
	1000	0.6136070754													
	1100	0.584358539													
	1178	0.5625159517													
	1200	0.5565041796													
	1300	0.5299775417													
	1400	0.5047153372													
	1420	0.499809273	0.540	0.612	0.468										
	1500	0.480657295													
	1800	0.4151477091													
	2000	0.3765136429													
	2300	0.3251979693													
	2358	0.3161152633													
	2400	0.3096969019													
	2500	0.294934717													
	2922	0.2400024241	0.253	0.357	0.149										
	3000	0.2310314353													
	3500	0.1809740291													
	4000	0.1417625233													
	4714	0.100026518	0.083	0.144	0.023										
	5000	0.08698648732													
	6000	0.05337552408													
	7000	0.03275159923													
	8000	0.02009661301													