"Parallel Methods of Solving the Linear Equation Systems" 2-

## Практична частина

			Parallel algorithm							
Test	System	Serial	2 processors		4 processors		8 processors			
Number	Size	algorithm	Time	Speed	Time	Speed up	Time	Speed up		
				Up						
1	10	0.000000	0.0004	0.00000	0.001898	0.000000	0.0158	0.000000		
			89	0			37			
2	100	0.001000	0.0013	0.7518	0.002283	0.438	0.0346	0.028		
			30				69			
3	500	0.112000	0.0765	1.4631	0.054760	2.0452	0.0575	1.9475		
			45				09			
4	1000	0.905000	0.6001	1.5078	0.387238	2.337	0.3462	2.6136		
			80				60			
5	1500	3.146000	2.1499	1.4632	1.510323	2.0829	0.8556	3.6768		
			88				31			
6	2000	7.462000	5.0011	1.4921	3.972145	1.8785	1.7030	4.3815		
			63				38			
7	2500	14.60400	9.7522	1.4974	7.169063	2.037	2.9764	4.9		
		0	57				38			
8	3000	25.59100	16.872	1.5167	12.97813	1.9718	5.9683	4.2878		
		0	668		4		15			

System	2 processors		4 proc	essors	8 processors	
Size	Model	Experiment	Model	Experiment	Model	Experiment
10	0.00005	0.000489	0.000025	0.001898	0.000012	0.015837
100	0.0019329	0.001330	0.00096	0.002283	0.00048	0.034669
500	0.158371	0.076545	0.0791857	0.054760	0.0395929	0.057509
1000	1.01413	0.600180	0.507066	0.387238	0.253533	0.346260
1500	2.48805	2.149988	1.24402	1.510323	0.622012	0.855631
2000	5.33757	5.001163	2.66878	3.972145	1.33439	1.703038
2500	10.3397	9.752257	5.16985	7.169063	2.58493	2.976438
3000	20.2724	16.872668	10.1362	12.978134	5.06811	5.968315