

Course No: CSE-406

Report on Time taken for generating differect size prime number with secret key

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Key size	р	g	а	b	Α	В	S1	S2	Average Time P	Average Time g	Average Time a or b	Average Time A or B	Average Time Secret Key
128	0.956311	3.274476	0.70114	0.208393	0.045315	0.025168	0.046047	0.02633	0.9724954	3.2790606	0.467763	0.0351603	0.0362743
	1.024009	3.304482	0.825575	0.205367	0.045345	0.025168	0.045856	0.026399					
	0.949759	3.250981	0.687835	0.203934	0.044514	0.024627	0.045025	0.028283					
	0.967351	3.272563	0.726158	0.20705	0.045326	0.024967	0.045787	0.02641					
	0.965047	3.292801	0.702964	0.209214	0.045876	0.025297	0.046146	0.02646					
192	3.924991	17.533335	0.893121	0.989493	0.082515	0.082596	0.08461	0.086733	3.9727244	17.8396622	0.9577523	0.0839839	0.0869827
	3.942133	17.707643	0.90285	1.002037	0.083437	0.086522	0.08523	0.087575					
	3.960778	17.858348	0.899524	1.005733	0.083768	0.083617	0.085531	0.088326					
	3.991014	17.914373	0.909603	1.016674	0.083587	0.084238	0.086282	0.088767					
	4.044706	18.184612	0.929961	1.028527	0.084659	0.0849	0.086994	0.089779					
256	3.62201	12.450895	0.980215	4.639336	0.094157	0.172544	0.092905	0.175341	3.6152412	12.4166464	2.8011001	0.1338637	0.1338381
	3.611801	12.440606	0.960649	4.621051	0.094007	0.172444	0.092915	0.175451					
	3.61654	12.37418	0.972411	4.634777	0.093736	0.173757	0.092554	0.173436					
	3.621539	12.402493	0.964927	4.637291	0.093967	0.171483	0.092985	0.174629					
	3.604316	12.415058	0.968383	4.631961	0.093145	0.179397	0.093105	0.17506					

Table 1: Time related performance for generating different size secret key.

Data Collection