

TEST 1: The goal of this test is to assess the scalability of the exact and approximate algorithms with respect to the number of executors.

SCALABILITY WITH RESPECT TO NUMBER OF EXECUTORS				
Number of executors	Exact algorithm through Node Coloring C=8 colors, R=3 runs, file: orkut4M.txt		Approximation through Node Coloring C=16 colors, R=3 runs, file: orkut4M.txt	
	Exact number of triangles	Total running time in seconds (mean of 3 runs)	Approx. number of triangles (median of 3 runs)	Total running time in seconds (mean of 3 runs)
2	12184731.0	167.9518938859304s	11451392.0	67.72191222508748s
4	12184731.0	90.29369044303894s	11383552.0	36.93939018249512s
8	12184731.0	48.27184804280599s	11476736.0	20.268129189809162s
16	12184731.0	31.482361396153767s	11339008.0	12.37065569559733s

TEST 2: The goal of this test is to assess how the approximation algorithm scales with respect to the input size and to show that it can efficiently handle large inputs. To this purpose you will use the orkutXM.txt datasets for increasing values of X.

SCALABILITY WITH RESPECT TO INPUT SIZE		
Dataset	Approximation through Node Coloring C=8 colors, R=3 runs, 8 executors	
	Approx. number of triangles (median of 3 runs)	Total running time in seconds (mean of 3 runs)
Orkut1M	3211904.0	4.191456238428752s
Orkut4M	11985536.0	11.371818463007608s
Orkut16M	53071872.0	45.067976554234825s
Orkut64M	293475264.0	196.04377381006876s
Orkut117M	618329792.0	390.5448554356893s