**Test 1 (MC on Whole Graph + Parallel)**

Category: 1

Number of nodes in graph: 7527

Number of edges in graph: 60502

Number of nodes in subgraph: 7527 # Used the whole graph.

Number of edges in subgraph: 60502

Runs = 1000

Threshold = 0.01

Algorithm: Parallel Monte Carlo on the whole graph (PMCWG) (with starmap\_async)

Running Time: 39261.559715509415 sec = 654.3593285918236 min = 10.90598880986372 h

Number of reliable sets: 7527

Average size: 22.571808157300385

Max size 1501

Number of reliable sets of size>10: 2154

Number of reliable sets of size>20: 1466

Number of reliable sets of size>50: 791

Results Saved at: RS\_1v1.db, table RS\_1

**Test 2 (MC on Whole Graph + Parallel)**

Category: 3

Number of nodes in graph: ?

Number of edges in graph: ?

Number of nodes in subgraph: ? # Used the whole graph.

Number of edges in subgraph: ?

Runs = 1000

Threshold = 0.01

Algorithm: Parallel Monte Carlo on the whole graph (PMCWG) (with starmap\_async)

Running Time: 5 h (aprox)

Number of reliable sets: ?

Average size: ?

Max size ?

Number of reliable sets of size>10: ?

Number of reliable sets of size>20: ??

Number of reliable sets of size>50: 791

Results Saved at: RS\_1v1.db, table RS\_3

**Test 3 (NON Parallel MC on Whole Graph)**

Category: 1

Number of nodes in graph: 7527

Number of edges in graph: 60502

Number of nodes in subgraph: 7527 # Used the whole graph.

Number of edges in subgraph: 60502

Runs = 1000

Threshold = 0.01

Algorithm: Monte Carlo NOT parallel.

Running Time (aprox - 23.34 sec per user): 163380 sec = 2723 min = 45.38 h = 1.89 days

**Test 4 (Monte Carlo + Parallel + Smaller Sets)**

Category: 1

Number of nodes in graph: 7527

Number of edges in graph: 60502

Number of nodes in subgraph: 7527 # Used the whole graph.

Number of edges in subgraph: 60502

Runs = 1000

Threshold = 0.01

Algorithm: Parallel Monte Carlo on small sets (PMCSS) (with starmap\_async)

Max Path Length = 3

Running Time: 17599.68733882904 sec = 293.32812231381735 min = 4.888802038563623 h

Number of reliable sets: 7527

Average size: 21.3713298791019

Max size 1509

Number of reliable sets of size>10: 1952

Number of reliable sets of size>20: 1392

Number of reliable sets of size>50: 781

Results Saved at: RS\_1v2.db, table RS\_1

**Test 5 (MC on Whole Graph + Parallel)**

Category: 2

Number of nodes in graph: 3489

Number of edges in graph: 10885

Number of nodes in subgraph: 3489 # Used the whole graph.

Number of edges in subgraph: 10885

Runs = 1000

Threshold = 0.01

Algorithm: Parallel Monte Carlo on the whole graph (PMCWG) (with apply\_async )

Running Time: 3357.6467876434326 sec = 55.96077979405721 min = 0.932679663234286 h

Number of reliable sets: 3489

Average size: 5.259100028661508

Max size: 348

Number of reliable sets of size>10: 376

Number of reliable sets of size>20: 171

Number of reliable sets of size>50: 41

Results Saved at: RS\_1v1.db, table RS\_2