|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SG\_1** | **SG\_2** | **SG\_3** |
| **For Monte Carlo** | **threshold** | 0.01 | 0.01 |  |
| **Runs** | 1000 | 1000 |  |
| **subgraph** | **Nodes** | 7527 | 3489 | 6822 |
| **Edges** | 60502 | 10885 | 31354 |
| **Time** | **Seconds** | 39261.559715509415 | 3357.6467876434326 |  |
| **Minutes** | 654.3593285918236 | 55.96077979405721 |  |
| **Hours** | 10.90598880986372 | 0.932679663234286 | ~5 |
| **Reliable Sets** | **Avg Size** | 22.571808157300385 | 5.259100028661508 |  |
| **Max Size** | 1501 | 348 |  |

**RESULTS FROM PARALLEL MONTE CARLO ON THE WHOLE GRAPHS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SG\_4** | **SG\_5** | **SG\_6** |
| **For Monte Carlo** | **threshold** | 0.01 | 0.01 | 0.01 |
| **Runs** | 1000 | 1000 | 1000 |
| **subgraph** | **Nodes** | 4699 | 3747 | 1146 |
| **Edges** | 20218 | 12305 | 2011 |
| **Time** | **Seconds** | 8755.642922878265 | 4045.578126192093 | 197.74584317207336 |
| **Minutes** | 145.9273820479711 | 67.42630210320155 | 3.2957640528678893 |
| **Hours** | 2.4321230341328515 | 1.123771701720026 | 0.05492940088113149 |
| **Reliable Sets** | **Avg Size** | 27.78804000851245 | 7.388043768348012 | 2.700698080279232 |
| **Max Size** | 764 | 599 | 36 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SG\_7** | **SG\_8** | **SG\_9** |
| **For Monte Carlo** | **threshold** | 0.01 | 0.01 | 0.01 |
| **Runs** | 1000 | 1000 | 1000 |
| **subgraph** | **Nodes** | 4387 | 2766 | 2892 |
| **Edges** | 16494 | 9559 | 8510 |
| **Time** | **Seconds** | 6716.7590074539185 | 2224.9843633174896 | 2249.781800508499 |
| **Minutes** | 111.9459834575653 | 37.08307272195816 | 37.49636334180832 |
| **Hours** | 1.8657663909594218 | 0.618051212032636 | 0.6249393890301387 |
| **Reliable Sets** | **Avg Size** | 6.910645087759288 | 11.783441793203181 | 4.94225449515906 |
| **Max Size** | 619 | 405 | 210 |

|  |  |  |
| --- | --- | --- |
|  |  | **SG\_10** |
| **For Monte Carlo** | **threshold** | 0.01 |
| **Runs** | 1000 |
| **subgraph** | **Nodes** | 7178 |
| **Edges** | 51401 |
| **Time** | **Seconds** | 33708.444734573364 |
| **Minutes** | 561.8074122428894 |
| **Hours** | 9.363456870714824 |
| **Reliable Sets** | **Avg Size** | 44.86765115631095 |
| **Max Size** | 1447 |

**RESULTS FROM PARALLEL MONTE CARLO ON THE 1000 USERS SUB GRAPHS (SAVED ON RS\_2v1)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SG\_1** | **SG\_2** | **SG\_3** |
| **For Monte Carlo** | **threshold** | 0.01 | 0.01 | 0.01 |
| **Runs** | 1000 | 1000 | 1000 |
| **subgraph** | **Nodes** | 537 | 363 | 642 |
| **Edges** | 7858 | 2158 | 6985 |
| **Time** | **Seconds** | 400.7152512073517 | 66.87218832969666 | 367.09782123565674 |
| **Minutes** | 6.678587520122528 | 1.114536472161611 | 6.118297020594279 |
| **Hours** | 0.11130979200204213 | 0.018575607869360182 | 0.10197161700990466 |
| **Reliable Sets** | **Avg Size** | 26.57169459962756 | 8.049586776859504 | 23.04517133956386 |
| **Max Size** | 340 | 109 | 258 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SG\_4** | **SG\_5** | **SG\_6** |
| **For Monte Carlo** | **threshold** | 0.01 | 0.01 | 0.01 |
| **Runs** | 1000 | 1000 | 1000 |
| **subgraph** | **Nodes** | 525 | 393 | 179 |
| **Edges** | 5951 | 2627 | 450 |
| **Time** | **Seconds** | 260.0741219520569 | 86.76560378074646 | 8.484350681304932 |
| **Minutes** | 4.334568699200948 | 1.4460933963457743 | 0.14140584468841552 |
| **Hours** | 0.07224281165334913 | 0.024101556605762905 | 0.0023567640781402585 |
| **Reliable Sets** | **Avg Size** | 45.61333333333334 | 10.608142493638677 | 3.3072625698324023 |
| **Max Size** | 312 | 163 | 30 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SG\_7** | **SG\_8** | **SG\_9** |
| **For Monte Carlo** | **threshold** | 0.01 | 0.01 | 0.01 |
| **Runs** | 1000 | 1000 | 1000 |
| **subgraph** | **Nodes** | 525 | 401 | 414 |
| **Edges** | 4491 | 3124 | 2426 |
| **Time** | **Seconds** | 195.1332995891571 | 104.18063068389893 | 84.84859371185303 |
| **Minutes** | 3.252221659819285 | 1.7363438447316488 | 1.4141432285308837 |
| **Hours** | 0.05420369433032142 | 0.028939064078860814 | 0.02356905380884806 |
| **Reliable Sets** | **Avg Size** | 12.17142857142857 | 18.369077306733168 | 8.306763285024154 |
| **Max Size** | 233 | 200 | 122 |

|  |  |  |
| --- | --- | --- |
|  |  | **SG\_10** |
| **For Monte Carlo** | **threshold** | 0.01 |
| **Runs** | 1000 |
| **subgraph** | **Nodes** | 513 |
| **Edges** | 7030 |
| **Time** | **Seconds** | 299.39837408065796 |
| **Minutes** | 4.9899729013442995 |
| **Hours** | 0.083166215022405 |
| **Reliable Sets** | **Avg Size** | 35.84405458089669 |
| **Max Size** | 290 |