|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SG\_1** | **SG\_2** | **SG\_3** |
| **For Monte Carlo** | **threshold** | 0.01 | 0.01 |  |
| **Runs** | 1000 | 1000 |  |
| **subgraph** | **Nodes** | 7527 | 3489 |  |
| **Edges** | 60502 | 10885 |  |
| **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 GRAPH**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **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 |