|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Algorithm Execution Time (s) | | | | | | | | |
| Greedy | Jones-Plasmann | | | | Large-Degree-First | | | |
| Graph | Size | Threads: | 1 | 2 | 4 | 8 | 1 | 2 | 4 | 8 |
| v10.gra | 1 KB | 0 | 0 | 0 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| v100.gra | 13 KB | 0.019 | 0.1 | 0.089 | 0.089 | 0.078 | 0.208 | 0.128 | 0.114 | 0.96 |
| arXiv\_sub\_6000-1.gra | 0.3 MB | 0. 292 | 3.335 | 2.067 | 1.320 | 1.019 | 10.099 | 5.719 | 3.606 | 2.492 |
| agrocyc\_dag\_uniq.gra | 1 MB | 0.143 | 0.257 |  | 0.198 | 0.142 | 0.370 | 0.279 | 0.238 |  |
| uniprotenc\_150m.scc.gra | 2 MB | 2.212 | 5.336 | 4.363 | 3.256 | 2.826 | 4.535 | 2.581 | 1.900 | 3.522 |
| citeseer.scc.gra | 8 MB | 7.355 | 25.728 | 11.190 | 7.661 | 5.576 | 13.880 | 9.024 | 6.982 | 6.029 |
| uniprotenc\_22m.scc.gra | 19 MB | 21.631 | 55.511 | 45.575 | 37.352 | 33.644 | 45070 | 43398 | 37412 | 34957 |
| uniprotenc\_100m.scc.gra | 232 MB | 316.221 | 616.162 | 538.255 | 279.381 | 275.632 | 216.034 | 221.170 | 222.155 | 227.275 |
| go\_uniprot.gra | 255 MB |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Peak Memory Usage (MB) | | | | | | | | |
| Greedy | Jones-Plasmann | | | | Large-Degree-First | | | |
| Graph | Size | Threads: | 1 | 2 | 4 | 8 | 1 | 2 | 4 | 8 |
| v10.gra | 1 KB | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| v100.gra | 13 KB | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| arXiv\_sub\_6000-1.gra | 0.3 MB | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| agrocyc\_dag\_uniq.gra | 1 MB | 17 | 17 |  | 17 | 17 | 17 | 17 | 17 |  |
| uniprotenc\_150m.scc.gra | 2 MB | 155 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 |
| citeseer.scc.gra | 8 MB | 751 | 747 | 747 | 747 | 747 | 747 | 747 | 747 | 747 |
| uniprotenc\_22m.scc.gra | 19 MB | 2030 | 2022 | 2022 | 2022 | 2022 | 2022 | 2022 | 2022 | 2022 |
| uniprotenc\_100m.scc.gra | 232 MB | 12614 | 12400 | 12400 | 12400 | 12400 | 12882 | 12882 | 12882 | 12882 |
| go\_uniprot.gra | 255 MB |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | Number of Colors Used | | |
| Graph | Number of Nodes | Greedy | Jones-Plasmann | Large-Degree-First |
| v10.gra | 10 | 6 | 6 | 6 |
| v100.gra | 100 | 78 | 78 | 78 |
| arXiv\_sub\_6000-1.gra | 6000 | 30 | 29 | 27 |
| agrocyc\_dag\_uniq.gra | 12 684 | 5 | 5 | 4 |
| uniprotenc\_150m.scc.gra | 25 037 600 / 184 672? I think my file is corrupt | 2 | 4 | 3 |
| citeseer.scc.gra | 693 947 | 2 | 5 | 4 |
| uniprotenc\_22m.scc.gra | 1 595 444 | 2 | 4 |  |
| uniprotenc\_100m.scc.gra | 16 087 295 | 2 | 5 | 3 |
| go\_uniprot.gra | 6 967 956 |  |  |  |