|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MAP** | **SIGMA** | **Avg Iteration** | **Avg Cost** | **Min Cost** |
| att48 | 100000 | 100.4 | 41144.42568574888 | 40550.892147745995 |
| att48 | 50000 | 102.8 | 42091.99994616505 | 41628.681430648874 |
| att48 | 25000 | 108.2 | 41478.96489347535 | 39938.803532229234 |
| att48 | 10000 | 112.1 | 39425.21551085617 | 39425.215510856164 |
| att48 | 1000 | 92.7 | 47901.73479271125 | 43916.183241350234 |
| burma14 | 100000 | 17.1 | 32.25840803843465 | 31.783882515844425 |
| burma14 | 50000 | 18.5 | 31.366126575173098 | 30.878503892588 |
| burma14 | 25000 | 17.1 | 32.24618152510796 | 31.657452419855122 |
| burma14 | 10000 | 15.9 | 31.99572450506009 | 31.866155528579203 |
| burma14 | 1000 | 16.3 | 32.46155741662032 | 31.566961626179083 |
| st70 | 100000 | 179.8 | 928.2498491086095 | 894.7383743583516 |
| st70 | 50000 | 170.3 | 936.0279288127801 | 899.2679375721622 |
| st70 | 25000 | 168.3 | 900.347506714611 | 858.2963789152732 |
| st70 | 10000 | 168.8 | 923.1637645808318 | 865.7055956720154 |
| st70 | 1000 | 137.3 | 1099.6286772313306 | 1044.5070546167383 |
| ulysses22 | 100000 | 34.8 | 80.27894782832475 | 77.90402419094875 |
| ulysses22 | 50000 | 36.7 | 81.74601826522947 | 80.96230691244199 |
| ulysses22 | 25000 | 33.3 | 80.6859623571934 | 76.96320891526425 |
| ulysses22 | 10000 | 35.7 | 76.84066246114635 | 76.02042430296329 |
| ulysses22 | 1000 | 32.1 | 81.16978064656854 | 78.21020868463596 |
| ulysses16 | 100000 | 23.2 | 78.16121935809261 | 74.59385319736275 |
| ulysses16 | 50000 | 20.3 | 75.63462928102012 | 75.1559584492543 |
| ulysses16 | 25000 | 22.5 | 78.36762168167472 | 75.19664509440452 |
| ulysses16 | 10000 | 23.1 | 76.07435832773587 | 74.95070864777107 |
| ulysses16 | 1000 | 21.4 | 74.80596472958986 | 74.80596472958987 |

**CSE 402: AI Sessional**

**ID: 1105021**

**TSP Solve with Hill Climbing**

**Statistics**