# Monolithic Results

| Instance Name | A*(GNN) | | | BFS | | |
|---|---|---|---|---|---|---|
| | Length. | Nodes | Time[ms] | Length. | Nodes | Time[ms] |
| Assemble_B3-pl_5 | 5 | 14 | 308 | 5 | 14 | 302 |
| Assemble_B5-pl_5 | 5 | 14 | 475 | 5 | 14 | 448 |
| Assemble_B7-pl_5 | 5 | 14 | 9894 | 5 | 14 | 10020 |
| CC_2_2_3-pl_4 | 4 | 14 | 171 | 4 | 9 | 182 |
| CC_2_2_3-pl_6 | 6 | 178 | 1532 | 7 | 25 | 291 |
| CC_2_2_4-pl_5 | 5 | 94 | 3483 | 12 | 70 | 2787 |
| CC_2_3_4-pl_3 | 3 | 19 | 6067 | 24 | 199 | 49682 |
| CC_2_3_4-pl_7 | 7 | 4153 | 585278 | – | – | TO |
| CC_3_2_3-pl_4 | 4 | 47 | 689 | 5 | 16 | 254 |
| CC_3_2_3-pl_5 | 5 | 136 | 2088 | 8 | 39 | 500 |
| CC_3_3_3-pl_4 | 4 | 39 | 1337 | 4 | 10 | 599 |
| Coin_in_the_Box-pl_3 | 3 | 17 | 228 | 4 | 12 | 201 |
| Coin_in_the_Box-pl_6 | 6 | 381 | 3760 | – | – | TO |
| SC_4_1-pl_3 | 3 | 4 | 96 | 3 | 4 | 109 |
| SC_4_2-pl_7 | 7 | 97 | 533 | – | – | TO |
| SC_4_3-pl_5 | 5 | 17 | 98 | – | – | TO |
| SC_8_10-pl_6 | 6 | 113 | 882 | 1951 | 24489 | 384947 |
| SC_9_11-pl_6 | 6 | 26 | 198 | 509 | 5116 | 48319 |
| SC_9_11-pl_8 | 8 | 66 | 500 | 1099 | 12447 | 152051 |
| SC_10_8-pl_10 | 10 | 10 | 108 | 10 | 10 | 137 |
| SC_10_8-pl_15 | 15 | 130 | 822 | – | – | TO |
| SC_10_10-pl_6 | 6 | 298 | 8135 | – | – | TO |
| SC_10_10-pl_7 | 7 | 589 | 16064 | – | – | TO |
| SC_10_10-pl_10 | 10 | 1977 | 51904 | – | – | TO |
| SC_10_10-pl_13 | 13 | 51 | 358 | 17 | 49 | 400 |
| avg± std (all) | 6 ± 3 | 340 ± 871 | 27800 ± 114266 | 216 ± 513 | 2502 ± 6299 | 38308 ± 94330 |
| iqm± iqr (all) | 6 ± 2 | 66 ± 119 | 1290 ± 3452 | 8 ± 12 | 28 ± 58 | 1733 ± 9766 |
| avg± std (comm) | 6 ± 3 | 50 ± 49 | 1671 ± 2543 | 216 ± 513 | 2502 ± 6299 | 38308 ± 94330 |
| iqm± iqr (comm) | 5 ± 2 | 29 ± 52 | 701 ± 1304 | 8 ± 12 | 28 ± 58 | 1733 ± 9766 |
| Solved Instances | 25/25 (100.00%) | | | 17/25 (68.00%) | | |

Table 1: Comparison of execution on the domain over the **Train** instances. The model used by A*(GNN)has been trained using the instances reported in this Table.