Monolithic Results

Instance Name	A*(GNN)			BFS			P5		
	Length.	Nodes	Time[ms]	Length.	Nodes	Time[ms]	Length.	Nodes	Time[ms]
Assemble_B10-pl_5	–	–	TO	–	–	TO	–	–	TO
Assemble_B2-pl_5	5	14	264	5	14	269	5	14	269
Assemble_B4-pl_5	5	14	275	5	14	376	5	14	376
Assemble_B6-pl_5	5	14	804	5	14	1025	5	14	1025
Assemble_B8-pl_5	5	14	24655	5	14	35914	5	14	35914
Assemble_B9-pl_5	5	14	295842	5	14	465844	5	14	465844
Assemble_C-pl_5	5	14	124	5	14	174	5	14	174
CC_2_2_3-pl_3	3	9	111	4	7	103	4	7	103
CC_2_2_3-pl_5	5	17	272	5	14	156	5	14	156
CC_2_2_3-pl_7	7	163	2390	11	2150	6290	11	2150	6290
CC_2_2_3-pl_8	8	1327	18235	–	–	TO	–	–	TO
CC_2_2_4-pl_3	3	3	217	3	3	202	3	3	202
CC_2_2_4-pl_4	6	7	324	6	6	390	6	6	390
CC_2_2_4-pl_6	6	21	1251	55	1062	10165	55	1062	10165
CC_2_2_4-pl_7	8	129	3989	–	–	TO	–	–	TO
CC_2_3_4-pl_4	5	5	1995	5	5	1126	5	5	1126
CC_2_3_4-pl_5	10	132	20181	–	–	TO	–	–	TO
CC_2_3_4-pl_6	11	1269	65775	–	–	TO	–	–	TO
CC_3_2_3-pl_3	3	4	228	3	3	236	3	3	236
CC_3_2_3-pl_6	6	74	1201	19	311	12446	19	311	12446
CC_3_2_3-pl_7	8	185	3058	–	–	TO	–	–	TO
CC_3_3_3-pl_3	3	3	218	3	3	212	3	3	212
CC_3_3_3-pl_5	6	26	1975	8	12	2513	8	12	2513
CC_3_3_3-pl_6	8	226	13395	10	18	1864	10	18	1864
CC_3_3_3-pl_7	8	1476	59481	–	–	TO	–	–	TO
Coin_in_the_Box-pl_2	2	2	52	2	2	71	2	2	71
Coin_in_the_Box-pl_5	5	77	425	5	16	156	5	16	156
Coin_in_the_Box-pl_7	7	1817	10395	–	–	TO	–	–	TO
SC_4_1-pl_5	5	17	125	–	–	TO	–	–	TO
SC_4_2-pl_5	5	15	132	–	–	TO	–	–	TO
SC_4_2-pl_8	8	339	1639	–	–	TO	–	–	TO
SC_4_3-pl_6	6	21	162	–	–	TO	–	–	TO
SC_4_3-pl_8	8	59	186	–	–	TO	–	–	TO

SC_4_4-pl_5	5	17	125	–	–	TO	–	–	TO
SC_8_10-pl_8	8	542	5157	1586	19087	329262	1586	19087	329262
SC_8_10-pl_9	9	1660	17268	1586	19087	321429	1586	19087	321429
SC_8_10-pl_12	12	31662	199243	–	–	TO	–	–	TO
SC_9_11-pl_4	4	8	143	6	13	192	6	13	192
SC_9_11-pl_5	5	11	152	8	21	315	8	21	315
SC_9_11-pl_7	7	41	431	–	–	TO	–	–	TO
SC_9_11-pl_9	9	238	1895	–	–	TO	–	–	TO
SC_9_11-pl_10	10	663	6151	–	–	TO	–	–	TO
SC_9_11-pl_11	11	1262	15073	–	–	TO	–	–	TO
SC_10_8-pl_9	–	–	TO	–	–	TO	–	–	TO
SC_10_8-pl_14	14	93	481	16	33	390	16	33	390
SC_10_10-pl_2	2	6	280	4	13	386	4	13	386
SC_10_10-pl_3	3	10	239	–	–	TO	–	–	TO
SC_10_10-pl_9	9	10	188	9	10	114	9	10	114
SC_10_10-pl_9	9	886	20614	13	65	1442	13	65	1442
SC_10_10-pl_10	10	15	191	11	17	220	11	17	220
SC_10_10-pl_13	13	15826	285398	–	–	TO	–	–	TO
SC_10_10-pl_14	–	–	TO	–	–	TO	–	–	TO
SC_10_10-pl_17	17	946	7240	–	–	TO	–	–	TO
SC_10_10-pl_17	–	–	TO	–	–	TO	–	–	TO
avg± std (all)	7 ± 3	1228 ± 4886	21793 ± 62537	118 ± 400	1450 ± 4819	41148 ± 114657	118 ± 400	1450 ± 4819	41148 ± 114657
iqm± iqr (all)	6 ± 4	66 ± 300	1758 ± 9389	7 ± 6	15 ± 11	731 ± 2311	7 ± 6	15 ± 11	731 ± 2311
avg± std (comm)	6 ± 3	136 ± 342	13465 ± 53762	118 ± 400	1450 ± 4819	41148 ± 114657	118 ± 400	1450 ± 4819	41148 ± 114657
iqm± iqr (comm)	5 ± 2	18 ± 66	681 ± 1778	7 ± 6	15 ± 11	731 ± 2311	7 ± 6	15 ± 11	731 ± 2311
Solved Instances		50/54 (92.59%)			29/54 (53.70%)			29/54 (53.70%)	

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