Drinks, snacks and prices are generously sponsored by PDC (Prolog Development Center):

Creating Value Through Efficient Planning

Results of programming project competition
02285 AI and MAS, F17

The following slides show the results of the competition:

- Teams get two scores per level: one for number of actions (action cost), and one for time spent (time cost).
- Each score is a number 0.00-1.00.
- Score is 1.00 for best known solution (minimum action cost, minimum time cost).
- Score is 0.00 if level is not solved.
- Otherwise the action score for team X on level L is

$$\frac{\text{least number of actions used by any team on level } L}{\text{number of actions used by team } X \text{ on level } L}$$
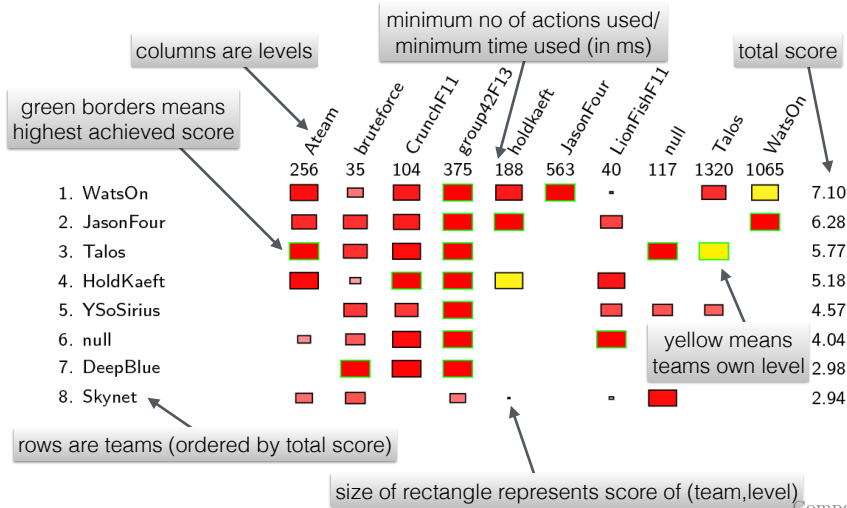
and the time score is

$$\frac{\log(\text{fewest number of milliseconds used by any team on level } L)}{\log(\text{number of milliseconds used by team } X \text{ on level } L)}$$

- The action and time scores obtained on the individual levels within a track are summed up. For each track there are two winners: those with minimal action cost sum, and those with minimal time cost sum.

SA track, used actions

The table on the following slide shows the **action scores** achieved for the **SA track**. Example of formatting of scoring table:

columns are levels

minimum no of actions used/ minimum time used (in ms)

total score

green borders means highest achieved score

yellow means teams own level

rows are teams (ordered by total score)

size of rectangle represents score of (team,level)

	Ateam	bruteforce	CrunchF11	group42F13	holdkaeft	JasonFour	LionFishF11	null	Talos	WatsOn	
	256	35	104	375	188	563	40	117	1320	1065	
1. WatsOn											7.10
2. JasonFour											6.28
3. Talos											5.77
4. HoldKaeft											5.18
5. YSoSirius											4.57
6. null											4.04
7. DeepBlue											2.98
8. Skynet											2.94

	AloliMAsh	Beliebers	Blinky	BoxBunny	Bronies	DAT	DoDo	EvilCorp	FooBar	GeneralAI	groupname	HALnineK	HiveMind	IamGreedy	Jomarki	Kalle	Lemmings	Liquorice	MasAiArne	MASters	NeverMind	Omnics	TALK	tnrbts	
	1930	316	124	3213	12662	953	228	3262	193	521	3687	100	234	927	60	202	114	95	604	212	238	3592	239	262	
1. bronies																									16.56
2. AloliMAsh																									15.32
3. BoxBunny																									14.91
4. MasAiArne																									14.24
5. GeneralAI																									13.90
6. EvilCorp																									13.49
7. NeverMind																									10.49
8. tobo																									10.14
9. Omnics																									9.86
10. IamGreedy																									9.71
11. FooBar																									9.54
12. groupname																									8.29
13. dat																									7.03
14. Blinky																									6.48
15. TALK																									6.22
16. DoDo																									4.68
17. HALnineK																									4.59
18. Kalle																									4.40
19. HiveMind																									2.97
20. tnrbts																									2.93
21. Liquorice																									2.92
22. MASters																									2.66
23. Beliebers																									2.59
24. Jomarki																									1.97
25. GroupOne																									0.92

SA track, completion time

The table on the following slide shows the **time scores** achieved for the **SA track**.

Competition results matrix

Columns (with counts):

AloliMAsh	Beliebers	Blinky	BoxBunny	Bronies	DAT	DoDo	EvilCorp	FooBar	GeneralAI	groupname	HALnineK	HiveMind	IamGreedy	Jomarki	Kalle	Lemmings	Liquorice	MasAiArne	MASters	NeverMind	Omnics	TALK	tnrbts
1416	252	17	1054	1830	484	122	5970	3341	287	433	3955	269	608	15	152	118	80	203	268	182	2307	142	205

Rows (with scores):

#	Name	Score
1	bronies	19.25
2	BoxBunny	15.55
3	GeneralAI	14.14
4	AloliMAsh	14.08
5	EvilCorp	13.38
6	FooBar	10.59
7	MasAiArne	10.14
8	IamGreedy	9.06
9	NeverMind	8.77
10	Omnics	7.95
11	tobo	7.79
12	groupname	7.63
13	dat	7.25
14	Blinky	5.87
15	DoDo	4.64
16	HALnineK	4.21
17	TALK	4.20
18	MASters	2.67
19	Kalle	2.43
20	tnrbts	2.40
21	Beliebers	2.01
22	Liquorice	1.79
23	HiveMind	1.60
24	Jomarki	0.85
25	GroupOne	0.39

MA track, used actions

The table on the following slide shows the **action scores** achieved for the **MA track**.

Competition results matrix.

	AIoliMAsh	Beliebers	Blinky	BoxBunny	Bronies	DAT	DoDo	EvilCorp	FooBar	GeneralAI	groupname	GroupOne	HiveMind	IamGreedy	Jomarki	Kalle	Lemmings	Liquorice	MasAiArne	MASters	NeverMind	Omnics	tnrbts	
	80	99	52	842	214	231	4	192	12	128	32	1004	107	188	41	31	53	69	1563	214	27	579	1108	
1. FooBar																								19.32
2. bronies																								18.15
3. AIoliMAsh																								12.44
4. BoxBunny																								9.78
5. Kalle																								8.15
6. IamGreedy																								8.12
7. EvilCorp																								7.39
8. groupname																								7.22
9. GeneralAI																								6.78
10. Beliebers																								5.93
11. NeverMind																								5.92
12. dat																								5.86
13. tnrbts																								4.63
14. HiveMind																								4.61
15. Liquorice																								4.45
16. MasAiArne																								3.93
17. Jomarki																								3.76
18. Blinky																								2.87
19. GroupOne																								2.00
20. MASters																								1.84
21. Omnics																								1.45
22. HALnineK																								1.33
23. DoDo																								0.64
24. TALK																								0.06
25. tobo																								0.00

MA track, completion time

The table on the following slide shows the **time scores** achieved for the **MA track**.

Cross-table of competition results. Column headers (left to right):

AloliMAsh, Beliebers, Blinky, BoxBunny, Bronies, DAT, DoDo, EvilCorp, FooBar, GeneralAI, groupname, GroupOne, HiveMind, IamGreedy, Jomarki, Kalle, Lemmings, Liquorice, MasAiArne, MASters, NeverMind, Omnics, tnrbts

Column counts:
281, 385, 46, 902, 530, 216, 15, 253, 106, 265, 104, 700, 264, 1168, 71, 128, 71, 151, 2073, 526, 114, 658, 1714

#	Row	Score
1.	bronies	21.19
2.	FooBar	18.46
3.	BoxBunny	17.70
4.	AloliMAsh	13.75
5.	EvilCorp	11.13
6.	groupname	7.73
7.	IamGreedy	7.24
8.	GeneralAI	7.12
9.	dat	5.61
10.	Kalle	5.46
11.	NeverMind	5.14
12.	Beliebers	4.87
13.	tnrbts	3.75
14.	MasAiArne	3.64
15.	Liquorice	3.13
16.	HiveMind	2.75
17.	Blinky	2.66
18.	Omnics	2.10
19.	Jomarki	2.09
20.	HALnineK	1.68
21.	MASters	1.29
22.	GroupOne	1.19
23.	DoDo	1.12
24.	TALK	0.42
25.	tobo	0.00

	SAtime	SAactions	MAtime	MAactions	
	19.25	16.56	21.19	19.32	
1. bronies					75.15
2. BoxBunny					57.95
3. FooBar					57.90
4. AIoliMAsh					55.59
5. EvilCorp					45.40
6. GeneralAI					41.93
7. IamGreedy					34.12
8. MasAiArne					31.95
9. groupname					30.87
10. NeverMind					30.32
11. dat					25.75
12. Omnics					21.36
13. Kalle					20.44
14. tobo					17.94
15. Blinky					17.88
16. Beliebers					15.39
17. tnrbts					13.71
18. Liquorice					12.29
19. HiveMind					11.93
20. HALnineK					11.81
21. DoDo					11.07
22. TALK					10.90
23. Jomarki					8.67
24. MASters					8.47
25. GroupOne					4.50