

The Results of SAT Competition 2022

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Competition Anniversary

Anniversary of SAT Competitions

- 3 competitions in the 90s (1992,1993, 1996)
- 14 SAT Competitions (2002–)
- 5 SAT Races (2006, 2008, 2010, 2015, 2019)
- 1 SAT Challenge (2012)

Goals

- Promotion of SAT solvers and their development
- Compilation of new challenging benchmarks
- Evaluation of current state-of-the-art solvers

Competition Summary

Main Track

- 400 benchmarks (300 new submission, 100 of previous competitions)
- 52 sequential solvers
- 10 parallel solvers
- 2 cloud solvers

Anniversary Track (20 years of SAT competition)

- 5355 benchmarks (all past application/crafted/main tracks)
- 29 sequential solvers
- 6 parallel solvers
- 2 cloud solvers

Anniversary Track Winners

Cloud Solvers

	Solver	Authors	PAR-2	Solved
1	Mallob-KiCaLiGlu	Dominik Schreiber	307.43	5100
2	<i>undisclosed</i>	<i>undisclosed</i>	810.50	3724

Anniversary Track Winners

Parallel Solvers

	Solver	Authors	PAR-2	Solved
1	Mallob-Ki	Dominik Schreiber	617.16	4543
2	<i>undisclosed</i>	<i>undisclosed</i>	835.86	4040
3	<i>undisclosed</i>	<i>undisclosed</i>	984.62	3706

Anniversary Track Winners

Sequential Solvers

	Solver	Authors	PAR-2	Solved
1	Kissat-MAB-ESA	Shuolin Li, Jordi Coll, Chu-Min Li, Mao Luo, Djamal Habet, Felip Manyà	2806.15	4029
2	<i>undisclosed</i>	<i>undisclosed</i>	2810.70	4038
3	<i>undisclosed</i>	<i>undisclosed</i>	2829.88	4015

Main Track Winners

Cloud Solvers

	Solver	Authors	PAR-2	Solved
1	Mallob-KiCaLiGlu	Dominik Schreiber	344.78	341
2	<i>undisclosed</i>	<i>undisclosed</i>	1025.51	221

Main Track Winners

Parallel Solvers

	Solver	Authors	PAR-2	Solved
1	ParKissat-RS	Xindi Zhang, Zhihan Chen, Shaowei Cai	625.19	313
2	<i>undisclosed</i>	<i>undisclosed</i>	827.64	278
2	<i>undisclosed</i>	<i>undisclosed</i>	859.64	281

Main Track Winners

Sequential Solvers

	Solver	Authors	PAR-2	Solved
1	Kissat-MAB-HyWalk	Jiongzhi Zheng, Kun He, Zhuo Chen, Jianrong Zhou, Chu-Min Li	3334.22	290
2	<i>undisclosed</i>	<i>undisclosed</i>	3351.93	290
3	<i>undisclosed</i>	<i>undisclosed</i>	3380.17	288

Thank you!

