

Problem	Result	sat.cpp		
		Decisions (sat.cpp)	Propagations (sat.cpp)	Time (s) (sat.cpp)
vars-100-1.cnf	SATISFIABLE	300	5723	0.01
vars-100-10.cnf	UNSATISFIABLE	1026	20505	0.02
vars-100-2.cnf	SATISFIABLE	359	7064	0.01
vars-100-3.cnf	UNSATISFIABLE	2355	49136	0.02
vars-100-4.cnf	UNSATISFIABLE	1941	39819	0.02
vars-100-5.cnf	SATISFIABLE	789	15899	0.005
vars-100-6.cnf	SATISFIABLE	73	980	0.005
vars-100-7.cnf	SATISFIABLE	845	17735	0.01
vars-100-8.cnf	SATISFIABLE	792	16801	0.01
vars-100-9.cnf	UNSATISFIABLE	1555	31464	0.02
vars-150-1.cnf	SATISFIABLE	4156	112555	0.07
vars-150-10.cnf	UNSATISFIABLE	13632	362008	0.18
vars-150-2.cnf	SATISFIABLE	6183	168322	0.09
vars-150-3.cnf	SATISFIABLE	1157	32016	0.02
vars-150-4.cnf	SATISFIABLE	13593	367263	0.19
vars-150-5.cnf	UNSATISFIABLE	23392	612987	0.33
vars-150-6.cnf	SATISFIABLE	1618	46358	0.03
vars-150-7.cnf	UNSATISFIABLE	22017	560477	0.28
vars-150-8.cnf	SATISFIABLE	5215	149896	0.09
vars-150-9.cnf	SATISFIABLE	2682	72031	0.05
vars-200-1.cnf	UNSATISFIABLE	133925	4480970	2.23
vars-200-10.cnf	UNSATISFIABLE	141644	4651547	2.41
vars-200-2.cnf	SATISFIABLE	58157	1941453	0.98
vars-200-3.cnf	UNSATISFIABLE	89718	2988930	1.52
vars-200-4.cnf	UNSATISFIABLE	44481	1434893	0.75
vars-200-5.cnf	UNSATISFIABLE	68467	2255215	1.2
vars-200-6.cnf	SATISFIABLE	183824	6137047	3.15
vars-200-7.cnf	UNSATISFIABLE	289625	9739526	4.88
vars-200-8.cnf	SATISFIABLE	17480	587940	0.31
vars-200-9.cnf	SATISFIABLE	56158	1866634	0.91
vars-250-1.cnf	UNSATISFIABLE	1203304	45125197	23.85
vars-250-10.cnf	SATISFIABLE	406226	15593770	7.94
vars-250-2.cnf	UNSATISFIABLE	892346	33470782	17.14
vars-250-3.cnf	SATISFIABLE	367897	14067340	7.47
vars-250-4.cnf	SATISFIABLE	388978	15139598	7.68
vars-250-5.cnf	UNSATISFIABLE	833013	32234550	17.1
vars-250-6.cnf	UNSATISFIABLE	3444925	130609409	68.07
vars-250-7.cnf	SATISFIABLE	250515	9703885	5.13
vars-250-8.cnf	UNSATISFIABLE	2171974	82263646	43.11
vars-250-9.cnf	SATISFIABLE	1168089	44527608	22.28
vars-300-1.cnf	SATISFIABLE	7502921	318648620	166.52
vars-300-10.cnf	SATISFIABLE	4167484	183301660	97.31
vars-300-2.cnf	UNSATISFIABLE	13589646	589294256	308.83
vars-300-3.cnf	UNSATISFIABLE	9116113	390968554	197.26
vars-300-4.cnf	UNSATISFIABLE	15036837	651673259	346.59
vars-300-5.cnf	SATISFIABLE	10225795	448689117	247.18
vars-300-6.cnf	UNSATISFIABLE	5435152	234918670	124.41
vars-300-7.cnf	SATISFIABLE	4352743	195032768	104.5
vars-300-8.cnf	UNSATISFIABLE	17212235	742522876	386.65
vars-300-9.cnf	SATISFIABLE	3241007	140191204	73.47

Sheet1

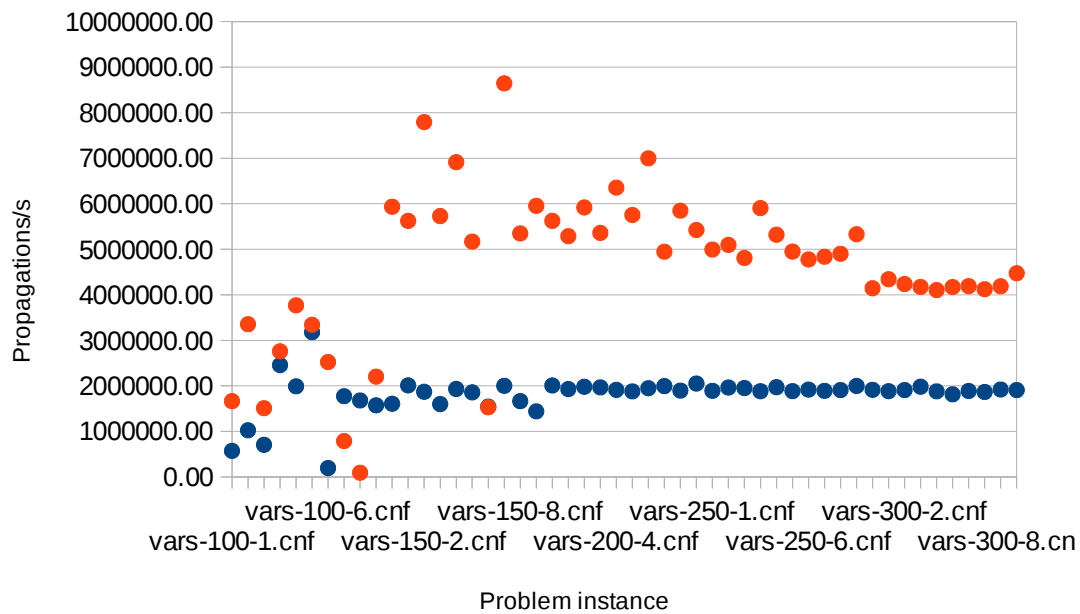
Decisions/s (sat.cpp)	Propagations/s (sat.cpp)	Decisions (Picosat)	Propagations (Picosat)
30000.00	572300.00	329	8325
51300.00	1025250.00	635	16775
35900.00	706400.00	332	7551
117750.00	2456800.00	530	13798
97050.00	1990950.00	729	18845
157800.00	3179800.00	630	16708
14600.00	196000.00	510	12622
84500.00	1773500.00	158	3944
79200.00	1680100.00	39	464
77750.00	1573200.00	400	11017
59371.43	1607928.57	1781	59342
75733.33	2011155.56	3142	112474
68700.00	1870244.44	2305	77933
57850.00	1600800.00	1675	57298
71542.11	1932963.16	1943	69127
70884.85	1857536.36	3020	103382
53933.33	1545266.67	270	7655
78632.14	2001703.57	2505	86440
57944.44	1665511.11	848	26740
53640.00	1440620.00	1658	59543
60056.05	2009403.59	16747	731222
58773.44	1930102.49	19671	846099
59343.88	1981074.49	5639	236755
59025.00	1966401.32	18673	803980
59308.00	1913190.67	6017	254159
57055.83	1879345.83	10748	460281
58356.83	1948268.89	898	34987
59349.39	1995804.51	26607	1137872
56387.10	1896580.65	14987	643313
61712.09	2051246.15	9077	379624
50453.00	1892041.80	91049	4394739
51161.96	1963950.88	63416	3108777
52062.19	1952787.75	130683	6300324
49249.93	1883178.05	4927	236169
50648.18	1971301.82	24915	1223710
48714.21	1885061.40	108767	5395194
50608.56	1918751.42	167825	8168878
48833.33	1891595.52	70856	3482507
50382.14	1908226.54	102141	4950914
52427.69	1998546.14	13177	639602
45057.18	1913575.67	735626	40157146
42826.88	1883687.80	583333	32608898
44003.65	1908150.94	684863	37919940
46213.69	1981996.12	381842	21074498
43385.09	1880242.53	573471	31479538
41369.83	1815232.29	416577	22814596
43687.42	1888261.96	314191	17597532
41653.04	1866342.28	73614	4082109
44516.32	1920400.56	673577	37352432
44113.34	1908142.15	302725	16688171

Sheet1

Picosat		
Time (s) (Picosat)	Decisions/s (Picosat)	Propagations/s (Picosat)
0.005	65800.00	1665000.00
0.005	127000.00	3355000.00
0.005	66400.00	1510200.00
0.005	106000.00	2759600.00
0.005	145800.00	3769000.00
0.005	126000.00	3341600.00
0.005	102000.00	2524400.00
0.005	31600.00	788800.00
0.005	7800.00	92800.00
0.005	80000.00	2203400.00
0.01	178100.00	5934200.00
0.02	157100.00	5623700.00
0.01	230500.00	7793300.00
0.01	167500.00	5729800.00
0.01	194300.00	6912700.00
0.02	151000.00	5169100.00
0.005	54000.00	1531000.00
0.01	250500.00	8644000.00
0.005	169600.00	5348000.00
0.01	165800.00	5954300.00
0.13	128823.08	5624784.62
0.16	122943.75	5288118.75
0.04	140975.00	5918875.00
0.15	124486.67	5359866.67
0.04	150425.00	6353975.00
0.08	134350.00	5753512.50
0.005	179600.00	6997400.00
0.23	115682.61	4947269.57
0.11	136245.45	5848300.00
0.07	129671.43	5423200.00
0.88	103464.77	4994021.59
0.61	103960.66	5096355.74
1.31	99758.02	4809407.63
0.04	123175.00	5904225.00
0.23	108326.09	5320478.26
1.09	99786.24	4949719.27
1.71	98143.27	4777121.64
0.72	98411.11	4836815.28
1.01	101129.70	4901895.05
0.12	109808.33	5330016.67
9.69	75916.00	4144184.31
7.51	77674.17	4342063.65
8.95	76521.01	4236864.80
5.05	75612.28	4173167.92
7.67	74768.06	4104242.24
5.47	76156.67	4170858.50
4.2	74807.38	4189888.57
0.99	74357.58	4123342.42
8.92	75513.12	4187492.38
3.73	81159.52	4474040.48

# Propagations per second

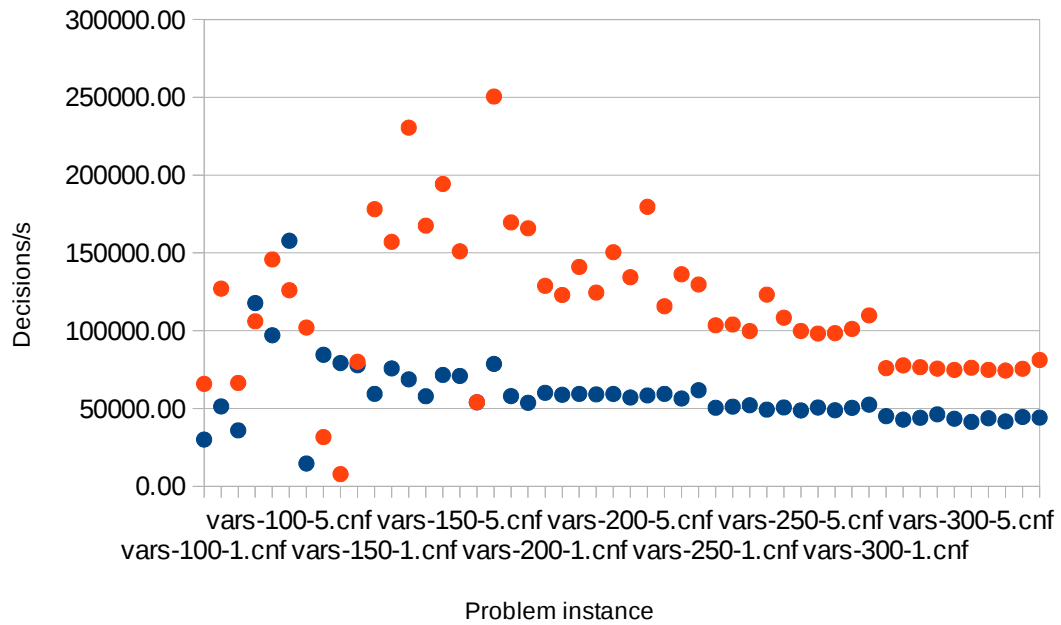
sat.cpp vs Picosat



- Propagations/s (sat.cpp)
- Propagations/s (Picosat)

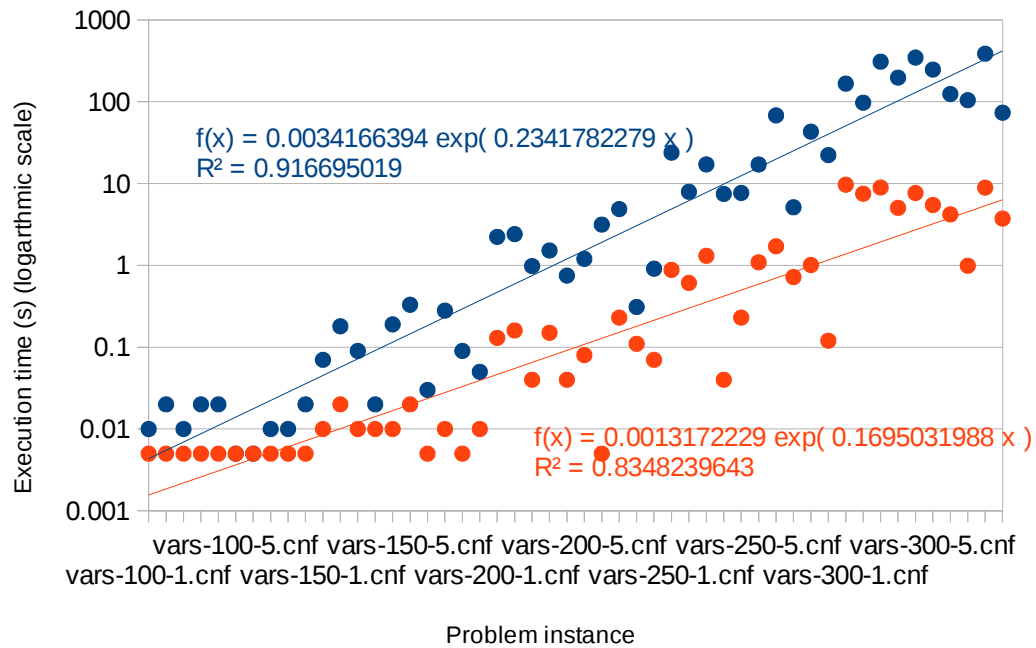
# Decisions per second

sat.cpp vs Picosat



# Execution time

sat.cpp vs Picosat



- Time (s) (sat.cpp)
- Exponential (Time (s) (sat.cpp))
- Time (s) (Picosat)
- Exponential (Time (s) (Picosat))