

Solver	Training performance				Test performance			
	#(timeouts)		avg. time for solved (s)		#(timeouts)		avg. time for solved (s)	
	default	optimized	default	optimized	default	optimized	default	optimized
clasp-2.1-sat-t1.txt	86	84	10.09	7.54	71	71	9.39	6.26
lingeling-params-mixed.pcs	81	80	13.02	13.26	69	69	11.24	8.76
forl-nodrup-params.pcs	83	82	18.19	13.29	69	69	15.90	9.17
gnovelty+GCa-params.pcs	371	371	0.86	0.86	295	295	1.14	1.14
gnovelty+GCwa-params.pcs	371	371	1.09	1.02	295	295	1.43	1.21
gnovelty+PCL-params.pcs	373	371	10.31	2.39	295	294	30.05	34.19
riss3g-params.pcs	82	82	8.94	7.26	70	69	6.63	5.77
riss3gExt-params.pcs	82	67	9.09	15.80	70	46	6.36	14.98
sat4j-params.pcs	98	98	20.88	20.29	77	76	17.88	15.61
simpsat-params.pcs	84	82	14.33	16.53	70	69	12.85	13.54
Solver43-params.pcs	91	90	7.63	8.46	77	77	8.14	5.14

Table 1: Performance of all solvers for benchmark CSSC-IBM-300s-2day

Solver	Training performance				Test performance			
	#(timeouts)		avg. time for solved (s)		#(timeouts)		avg. time for solved (s)	
	default	optimized	default	optimized	default	optimized	default	optimized
clasp-2.1-sat-t1-discrete.txt	250	250	0.00	0.00	250	250	0.00	0.00
lingeling-params.pcs	250	250	0.00	0.00	250	250	0.00	0.00
forl-nodrup-params.pcs	250	250	0.00	0.00	250	250	0.00	0.00
gnovelty+GCa-params.pcs	158	6	128.68	32.05	163	4	117.74	29.58
gnovelty+GCwa-params.pcs	10	0	32.61	22.35	8	1	34.41	20.16
gnovelty+PCL-params.pcs	250	10	0.00	72.06	250	11	0.00	67.82
riss3g-params.pcs	250	250	0.00	0.00	250	250	0.00	0.00
riss3gExt-params.pcs	250	250	0.00	0.00	250	250	0.00	0.00
sat4j-params.pcs	250	250	0.00	0.00	250	250	0.00	0.00
simpsat-params.pcs	250	250	0.00	0.00	250	250	0.00	0.00
Solver43-params.pcs	250	250	0.00	0.00	250	250	0.00	0.00

Table 2: Performance of all solvers for benchmark CSSC-5SAT500-sat-300s-2day

Solver	Training performance				Test performance			
	#(timeouts)		avg. time for solved (s)		#(timeouts)		avg. time for solved (s)	
	default	optimized	default	optimized	default	optimized	default	optimized
clasp-2.1-sat-t1-discrete.txt	23	7	15.13	14.28	26	17	21.38	12.43
lingeling-params-discrete.pcs	36	12	20.41	17.80	39	20	25.12	16.54
forl-nodrup-params.pcs	29	15	17.69	19.86	33	23	20.49	20.45
gnovelty+GCa-params.pcs	297	295	62.81	149.18	300	302	144.06	0.00
gnovelty+GCwa-params.pcs	296	292	252.19	109.81	301	295	178.95	127.30
gnovelty+PCL-params.pcs	299	299	0.00	0.00	302	302	0.00	0.00
riss3g-params.pcs	19	11	15.06	16.47	20	18	19.83	16.21
riss3gExt-params.pcs	19	11	15.40	15.14	21	16	19.35	16.32
sat4j-params.pcs	29	24	20.10	24.44	36	30	26.36	23.88
simpsat-params.pcs	25	21	16.52	19.52	26	24	23.34	23.29
Solver43-params.pcs	19	11	14.16	17.04	20	20	18.18	19.48

Table 3: Performance of all solvers for benchmark CSSC-CircuitFuzz-300s-2day

Solver	Training performance				Test performance			
	#(timeouts)		avg. time for solved (s)		#(timeouts)		avg. time for solved (s)	
	default	optimized	default	optimized	default	optimized	default	optimized
clasp-2.1-sat-t1-discrete.txt	131	33	4.27	13.25	42	6	3.45	14.16
lingeling-params-discrete.pcs	131	32	3.08	10.87	43	10	2.74	9.33
forl-nodrup-params.pcs	115	36	9.35	16.34	40	7	6.97	17.15
gnovelty+GCa-params.pcs	592	578	2.78	2.69	183	180	2.57	2.14
gnovelty+GCwa-params.pcs	578	578	4.36	2.79	180	180	4.39	2.26
gnovelty+PCL-params.pcs	599	582	6.14	9.94	179	178	10.62	9.44
riss3g-params.pcs	143	128	5.80	5.85	51	42	3.76	3.65
riss3gExt-params.pcs	143	2	5.70	0.57	50	2	4.67	0.59
sat4j-params.pcs	182	159	6.77	7.19	62	57	4.48	4.47
simpsat-params.pcs	124	124	6.94	6.94	42	42	7.54	7.54
Solver43-params.pcs	202	194	9.69	4.87	66	65	6.71	3.16

Table 4: Performance of all solvers for benchmark CSSC-GI-300s-2day

Solver	Training performance				Test performance			
	#(timeouts)		avg. time for solved (s)		#(timeouts)		avg. time for solved (s)	
	default	optimized	default	optimized	default	optimized	default	optimized
clasp-2.1-sat-t1.txt	213	191	18.20	20.29	66	42	14.91	22.01
lingeling-params-discrete.pcs	139	137	29.91	31.25	28	26	26.62	26.14
forl-nodrup-params.pcs	187	173	45.69	35.73	50	36	38.65	31.03
gnovelty+GCa-params.pcs	774	763	6.76	17.97	291	290	16.35	5.56
gnovelty+GCwa-params.pcs	768	753	12.96	44.36	291	285	15.44	58.67
gnovelty+PCL-params.pcs	770	755	7.91	31.68	289	288	29.86	36.90
riss3g-params.pcs	156	144	21.31	26.88	32	30	16.33	18.51
riss3gExt-params.pcs	157	51	20.32	5.74	32	20	16.06	2.67
sat4j-params.pcs	257	256	41.34	44.31	70	70	38.53	39.48
simpsat-params.pcs	175	173	40.31	42.92	38	35	38.70	40.32
Solver43-params.pcs	142	142	30.23	30.23	30	30	25.22	25.22

Table 5: Performance of all solvers for benchmark CSSC-BMC08-300s-2day

Solver	Training performance				Test performance			
	#(timeouts)		avg. time for solved (s)		#(timeouts)		avg. time for solved (s)	
	default	optimized	default	optimized	default	optimized	default	optimized
clasp-2.1-sat-t1.txt	90	88	10.54	10.83	97	90	11.53	13.50
lingeling-params-discrete.pcs	95	92	14.29	11.89	105	97	13.49	12.66
forl-nodrup-params.pcs	92	88	12.30	12.11	95	91	13.71	12.79
gnovelty+GCa-params.pcs	242	178	23.44	11.80	240	173	8.02	11.92
gnovelty+GCwa-params.pcs	190	149	12.25	29.67	195	154	4.27	22.96
gnovelty+PCL-params.pcs	197	188	14.39	11.60	199	183	13.61	14.67
riss3g-params.pcs	91	87	8.84	13.30	97	89	11.97	12.08
riss3gExt-params.pcs	89	42	10.78	15.02	98	42	9.96	9.37
sat4j-params.pcs	103	95	19.24	14.70	110	104	15.34	10.98
simpsat-params.pcs	101	101	9.65	9.65	107	107	12.80	12.80
Solver43-params.pcs	85	84	12.81	15.59	90	87	15.15	14.89

Table 6: Performance of all solvers for benchmark CSSC-LABS-300s-2day

Solver	Training performance				Test performance			
	#(timeouts)		avg. time for solved (s)		#(timeouts)		avg. time for solved (s)	
	default	optimized	default	optimized	default	optimized	default	optimized
clasp-2.1-sat-t1.txt	25	0	31.35	4.23	11	0	27.33	2.79
lingeling-params-mixed.pcs	20	0	28.30	9.51	8	0	25.26	7.86
forl-nodrup-params.pcs	57	15	32.26	30.05	39	8	27.20	22.31
gnovelty+GCa-params.pcs	162	162	0.02	0.02	124	124	0.04	0.04
gnovelty+GCwa-params.pcs	162	162	0.04	0.02	124	124	0.04	0.04
gnovelty+PCL-params.pcs	162	162	0.09	0.05	124	124	0.11	0.15
riss3g-params.pcs	15	0	26.64	17.65	10	0	22.51	14.76
riss3gExt-params.pcs	15	0	27.34	19.74	11	0	21.52	13.86
sat4j-params.pcs	19	11	33.45	34.52	7	5	28.20	25.72
simpsat-params.pcs	12	10	28.68	30.53	4	4	25.48	25.30
Solver43-params.pcs	15	8	24.88	29.82	6	3	22.11	24.06

Table 7: Performance of all solvers for benchmark CSSC-K3-300s-2day

Solver	Training performance				Test performance			
	#(timeouts)		avg. time for solved (s)		#(timeouts)		avg. time for solved (s)	
	default	optimized	default	optimized	default	optimized	default	optimized
clasp-2.1-sat-t1-discrete.txt	0	0	1.45	0.37	0	0	1.44	0.37
lingeling-params-mixed.pcs	0	0	1.60	0.54	0	0	1.61	0.54
forl-nodrup-params.pcs	0	0	4.32	1.25	0	0	4.24	1.24
gnovelty+GCa-params.pcs	300	300	0.00	0.00	250	250	0.00	0.00
gnovelty+GCwa-params.pcs	300	300	0.00	0.00	250	250	0.00	0.00
gnovelty+PCL-params.pcs	300	300	0.00	0.00	250	250	0.00	0.00
riss3g-params.pcs	0	0	0.95	0.60	0	0	0.94	0.60
riss3gExt-params.pcs	0	0	0.96	0.53	0	0	0.95	0.53
sat4j-params.pcs	0	0	4.87	4.31	0	0	4.80	4.40
simpsat-params.pcs	0	0	2.62	2.61	0	0	2.59	2.59
Solver43-params.pcs	0	0	0.84	0.73	0	0	0.82	0.72

Table 8: Performance of all solvers for benchmark CSSC-unsat-unif-k5-300s-2day

Solver	Training performance				Test performance			
	#(timeouts)		avg. time for solved (s)		#(timeouts)		avg. time for solved (s)	
	default	optimized	default	optimized	default	optimized	default	optimized
clasp-2.1-sat-t1.txt	0	0	0.52	0.12	0	0	0.44	0.11
lingeling-params-discrete.pcs	1	0	5.16	0.16	0	0	3.32	0.16
forl-nodrup-params.pcs	0	0	4.56	0.66	0	0	3.71	0.59
gnovelty+GCa-params.pcs	251	235	7.98	20.32	243	217	11.76	12.54
gnovelty+GCwa-params.pcs	250	235	3.56	5.76	244	215	3.51	10.59
gnovelty+PCL-params.pcs	235	234	4.30	5.14	215	215	10.42	2.97
riss3g-params.pcs	0	0	0.71	0.42	0	0	0.61	0.40
riss3gExt-params.pcs	0	0	0.65	0.12	0	0	0.57	0.11
sat4j-params.pcs	1	0	5.30	3.11	1	0	6.35	2.99
simpsat-params.pcs	0	0	6.32	5.27	0	0	4.64	4.97
Solver43-params.pcs	0	0	6.27	2.60	0	0	6.00	2.39

Table 9: Performance of all solvers for benchmark CSSC-SWV-300s-2days