

Sheet1																											
DETECTION LIMIT: 1000s RUN TIME LIMIT: 5000s		Problem info			Search time (s)					Decisions					Unit propagation					Symmetry propagation					Unit/Symmetry Propagation		
Problem		Status	Detection time (s)	Total symmetries	Inverting symmetries	Minisat	+SP(SAT) no storing	+SP(SAT) storing	+SP(SAT) optimized	+Shatter	Minisat	+SP(SAT) no storing	+SP(SAT) storing	+SP(SAT) optimized	+Shatter	Minisat	+SP(SAT) no storing	+SP(SAT) storing	+SP(SAT) optimized	+Shatter	+SP(SAT) no storing	+SP(SAT) storing	+SP(SAT) optimized	+SP(SAT) no storing	+SP(SAT) storing	+SP(SAT) optimized	
GreenTao_2-4-4_512.cnf		NO DATA	0.15	2	2											5664263651	5525306662	5478862823	5324373468	5603652826	0	0	0	0.00%	0.00%	0.00%	
li-exam-61.shuffled-as.sat03-366.cnf		NO DATA	71.49	104	0											6225443628	7673035057	9370175438	9052752428	5254351187	308435	2560	3215	0.00%	0.00%	0.00%	
openstacks-sequencedstrips-nonadl-nonnegated-os-sequencedstrips-p30_1.035-NOTKNOWN.cnf		NO DATA	340.52	4	0											1930502484	1838681594	1734802421	1759951689	2381621595	34519	56	64	0.00%	0.00%	0.00%	
openstacks-sequencedstrips-nonadl-nonnegated-os-sequencedstrips-p30_3.025-NOTKNOWN.cnf		NO DATA	145.3	3	0											3437148765	3598047892	3412885616	3413777784	3647673902	2848	20	20	0.00%	0.00%	0.00%	
rbcl_xits_09_NO DATA.cnf		NO DATA	2.66	1	0											885311105	357163178	377271147	552002829	467019472	111170	6978	19460	0.03%	0.00%	0.00%	
rpoc_xits_09_UNSAT.cnf		NO DATA	3.52	2	0											1492732087	916707883	1934613033	850967286	1907759271	418708	285352	165664	0.05%	0.01%	0.02%	
SGI_30_80_17_90_7-log.shuffled-as.sat03-190.cnf		NO DATA	1.1	3	0											685769332	645389113	693228150	649339322	794519090	7766210	5964965	6181909	1.20%	0.86%	0.95%	
VanDerWaerden_2-3-15_218.cnf		NO DATA	0.41	1	0											3606697986	3349606145	3304394792	3238559931	3843082762	172	114	1264	0.00%	0.00%	0.00%	
VanDerWaerden_2-3-16_238.cnf		NO DATA	0.55	1	0											3288597429	3280846881	3188630731	3245952235	3517993534	32	36	475	0.00%	0.00%	0.00%	
VanDerWaerden_2-3-17_279.cnf		NO DATA	0.97	1	0											3225961808	3138619980	3140293236	2822101355	3484126168	7	3	258	0.00%	0.00%	0.00%	
VanDerWaerden_2-3-18_312.cnf		NO DATA	1.41	1	0											2934924737	2852083824	2760456408	2774920094	3184249378	1	1	67	0.00%	0.00%	0.00%	
289-sat-11x10.cnf		SAT	1.88	22	0	0.00	0.00	0.00	0.01	0.00	1830	1263	917	1473	5018	17949	11079	8316	14035	28833	158	102	352	1.43%	1.23%	2.51%	
289-sat-11x4.cnf		SAT	0.07	16	0	0.00	0.00	0.00	0.00	0.00	78	78	78	78	1241	176	176	176	176	2132	0	0	0	0.00%	0.00%	0.00%	
289-sat-11x9.cnf		SAT	1.26	21	0	0.00	0.00	0.00	0.00	0.00	1437	1600	957	1009	2118	11339	12777	7547	9116	3897	122	80	260	0.95%	1.06%	2.85%	
289-sat-12x14.cnf		SAT	8.52	27	0	0.00	0.00	0.00	0.01	0.01	2013	1783	1609	1691	17257	19911	19448	13590	16758	104889	309	245	798	1.59%	1.80%	4.76%	
289-sat-12x15.cnf		SAT	10.68	28	0	0.00	0.01	0.01	0.05	0.14	2072	2827	2607	2274	38341	17705	23600	27524	26595	884291	386	206	748	1.64%	0.75%	2.81%	
289-sat-14x8.cnf		SAT	1.81	23	0	0.00	0.00	0.00	0.00	0.00	1256	1194	1704	1330	3356	9460	8872	13089	10130	10631	74	133	336	0.83%	1.02%	3.32%	
289-sat-4x35.cnf		SAT	3.94	40	0	0.00	0.00	0.00	0.00	0.00	222	222	222	222	1603	560	560	560	560	3297	0	0	0	0.00%	0.00%	0.00%	
289-sat-4x8.cnf		SAT	0.03	13	0	0.00	0.00	0.00	0.00	0.00	60	60	60	60	361	128	128	128	128	639	0	0	0	0.00%	0.00%	0.00%	
289-sat-5x8.cnf		SAT	0.05	14	0	0.00	0.00	0.00	0.00	0.00	249	109	102	83	557	1650	575	469	325	913	19	10	17	3.30%	2.13%	5.23%	
289-sat-6x19.cnf		SAT	1.82	26	0	0.00	0.00	0.00	0.00	0.00	1118	660	735	606	3612	11538	6317	6432	6583	11322	149	201	371	2.36%	3.13%	5.64%	
289-sat-6x20.cnf		SAT	2.18	27	0	0.00	0.00	0.00	0.00	0.00	847	792	1112	669	3810	9494	7495	12327	7737	11607	202	237	390	2.70%	1.92%	5.04%	
289-sat-6x8.cnf		SAT	0.09	15	0	0.00	0.00	0.00	0.00	0.00	265	286	370	310	880	1711	1857	2344	2215	1388	24	25	76	1.29%	1.07%	3.43%	
289-sat-6x9.cnf		SAT	0.15	16	0	0.00	0.00	0.00	0.00	0.00	305	341	334	282	1003	2477	2357	2400	1992	1561	59	60	91	2.50%	2.50%	4.57%	
289-sat-7x6.cnf		SAT	0.07	14	0	0.00	0.00	0.00	0.00	0.00	79	79	79	75	893	249	249	249	199	1549	0	0	4	0.00%	0.00%	2.01%	
289-sat-9x13.cnf		SAT	2.2	23	0	0.00	0.00	0.00	0.01	0.00	689	679	594	722	4877	5664	5737	5274	7574	13607	204	154	380	3.56%	2.92%	5.02%	
abb313GPIA-9-tr.used-as.sat04-321.cnf		SAT	121.74	137	0	0.09	0.26	0.14	0.60	0.24	15322	29139	13762	15810	144267	526830	1310627	691909	649977	2150319	836	252	510	0.06%	0.04%	0.08%	
AProVE11-09.cnf		SAT	244.97	42	0	0.27	0.34	0.32	0.30	0.27	2483	2483	2483	2483	2483	1606899	1606899	1606899	1606899	1607046	0	0	0	0.00%	0.00%	0.00%	
AProVE11-15.cnf		SAT	951.56	55	0	3.45	6.28	6.09	11.85	2.28	66741	65796	76477	86532	131695	29168646	33967751	34755330	54251091	19075384	4665	370	240	0.01%	0.00%	0.00%	
bart17.shuffled.cnf		SAT	0.03	31	0	0.00	0.00	0.00																			

battleship-09-17-sat.cnf	SAT	0.05	15	0	0.00	0.00	0.00	0.05	0.03	1395	1304	1773	5148	4203	0	-146	-163	-675	0	146	163	675	-100.00%	-100.00%	-100.00%
battleship-10-17-sat.cnf	SAT	0.01	12	0	3.91	1.33	1.41	2.18	5.42	368958	126223	142969	143459	211317	0	-43536	-18319	-20003	0	43536	18319	20003	-100.00%	-100.00%	-100.00%
battleship-10-18-sat.cnf	SAT	0.01	13	0	0.00	0.01	0.00	0.05	0.05	622	2311	659	6360	6348	0	-359	-34	-752	0	359	34	752	-100.00%	-100.00%	-100.00%
battleship-10-19-sat.cnf	SAT	0.05	15	0	0.00	0.00	0.00	0.00	0.00	648	688	759	462	3293	0	-17	-15	-9	0	17	15	9	-100.00%	-100.00%	-100.00%
battleship-12-23-sat.cnf	SAT	0.05	18	0	0.00	0.00	0.01	0.00	0.01	1252	884	3049	1034	4429	0	-23	-182	-51	0	23	182	51	-100.00%	-100.00%	-100.00%
battleship-14-26-sat.cnf	SAT	0.06	17	0	718.18	104.95	1060.11	546.06	14.25	29589334	4339151	37732810	17825596	735680	0	-2606234	-4929246	-2476104	0	2606234	4929246	2476104	-100.00%	-100.00%	-100.00%
battleship-15-29-sat.cnf	SAT	0.31	22	0	385.96	1257.95	16.14	296.29	87.82	21961391	40815286	744001	10058234	3373200	0	-24137589	-89171	-1311642	0	24137589	89171	1311642	-100.00%	-100.00%	-100.00%
battleship-24-57-sat.cnf	SAT	1.77	41	0	16.46	24.98	1.06	20.17	32.49	1706712	2217148	223013	779295	3102966	0	-392398	-10196	-46433	0	392398	10196	46433	-100.00%	-100.00%	-100.00%
fpga10_8_sat.cnf	SAT	0	22	0	0.00	0.00	0.00	0.00	0.00	405	338	352	320	503	0	-150	-175	-258	0	150	175	258	-100.00%	-100.00%	-100.00%
fpga10_9_sat.cnf	SAT	0.01	23	0	0.00	0.00	0.00	0.00	0.00	408	443	348	316	607	0	-178	-150	-229	0	178	150	229	-100.00%	-100.00%	-100.00%
fpga12_11_sat.cnf	SAT	0.02	29	0	0.00	0.00	0.00	0.00	0.00	467	325	363	524	474	0	-154	-137	-333	0	154	137	333	-100.00%	-100.00%	-100.00%
fpga12_8_sat.cnf	SAT	0.01	24	0	0.00	0.00	0.00	0.00	0.00	296	485	324	472	602	0	-140	-138	-296	0	140	138	296	-100.00%	-100.00%	-100.00%
fpga12_9_sat.cnf	SAT	0.01	25	0	0.00	0.00	0.00	0.00	0.00	451	343	378	492	713	0	-114	-133	-302	0	114	133	302	-100.00%	-100.00%	-100.00%
fpga13_10_sat.cnf	SAT	0.02	28	0	0.00	0.00	0.00	0.00	0.00	278	877	477	396	591	0	-290	-163	-212	0	290	163	212	-100.00%	-100.00%	-100.00%
fpga13_12_sat.cnf	SAT	0.03	32	0	0.00	0.00	0.00	0.00	0.00	316	310	334	365	1112	0	-81	-68	-231	0	81	68	231	-100.00%	-100.00%	-100.00%
fpga13_9_sat.cnf	SAT	0.01	26	0	0.00	0.00	0.00	0.00	0.00	330	350	858	696	601	0	-90	-167	-360	0	90	167	360	-100.00%	-100.00%	-100.00%
battleship-05-08-unsat.cnf	UNSAT	0	8	0	0.01	0.00	0.00	0.00	0.00	9281	2384	1406	463	447	0	-388	-251	-92	0	388	251	92	-100.00%	-100.00%	-100.00%
battleship-06-09-unsat.cnf	UNSAT	0	7	0	0.13	0.03	0.02	0.00	0.00	45893	9919	7947	2358	1105	0	-1427	-858	-399	0	1427	858	399	-100.00%	-100.00%	-100.00%
battleship-07-12-unsat.cnf	UNSAT	0	10	0	485.08	39.05	17.28	2.01	1.44	61922751	6055749	3040267	295311	141734	0	-1752230	-432591	-46952	0	1752230	432591	46952	-100.00%	-100.00%	-100.00%
battleship-10-10-unsat.cnf	UNSAT	0	8	0	1.55	2.18	1.13	0.17	0.03	199396	204969	107931	13673	5017	0	-168	-84	-245	0	168	84	245	-100.00%	-100.00%	-100.00%
battleship-12-12-unsat.cnf	UNSAT	0.01	10	0	402.26	117.01	45.60	0.70	1.33	29000352	6678652	2828621	45112	119304	0	-180905	-47061	-2427	0	180905	47061	2427	-100.00%	-100.00%	-100.00%
battleship-14-14-unsat.cnf	UNSAT	0.54	8	0				1371.62	736.05				61447105	18278571	0	-226	-213	-43271	0	226	213	43271	-100.00%	-100.00%	-100.00%
battleship-15-15-unsat.cnf	UNSAT	0.09	10	0				148.86					7252565		0	-1873	-351	-19620	0	1873	351	19620	-100.00%	-100.00%	-100.00%
battleship-16-16-unsat.cnf	UNSAT	1.63	17	0				31.26					1476236		0	-6295016	-2019379	-62635	0	6295016	2019379	62635	-100.00%	-100.00%	-100.00%
chnl10_11.cnf	UNSAT	0.01	39	0	167.23	0.00	0.00	0.00	0.00	12437023	46	46	46	1473	0	-53	-53	-53	0	53	53	53	-100.00%	-100.00%	-100.00%
chnl10_12.cnf	UNSAT	0.03	41	0	84.98	0.00	0.00	0.00	0.00	6050506	46	46	46	1682	0	-53	-53	-53	0	53	53	53	-100.00%	-100.00%	-100.00%
chnl10_13.cnf	UNSAT	0.03	43	0	94.77	0.00	0.00	0.00	0.00	6006811	46	46	46	1766	0	-53	-53	-53	0	53	53	53	-100.00%	-100.00%	-100.00%
chnl11_12.cnf	UNSAT	0.03	43	0	3353.05	0.00	0.00	0.00	0.00	127407652	56	56	56	2017	0	-64	-64	-64	0	64	64	64	-100.00%	-100.00%	-100.00%
chnl11_13.cnf	UNSAT	0.04	45	0	3868.64	0.00	0.00	0.00	0.00	126818865	56	56	56	2264	0	-64	-64	-64	0	64	64	64	-100.00%	-100.00%	-100.00%
chnl11_20.cnf	UNSAT	0.13	59	0	3405.10	0.00	0.00	0.00	0.00	58302347	56	56	56	3954	0	-64	-64	-64	0	64	64	64	-100.00%	-100.00%	-100.00%
fpga10_11_uns_rcr.cnf	UNSAT	0.02	38	0	71.49	0.96	0.09	0.06	0.14	5985130	130205	17093	6888	15152	0	-54908	-3786	-3488	0	54908	3786	3488	-100.00%	-100.00%	-100.00%
fpga10_12_uns_rcr.cnf	UNSAT	0.04	41	0	209.84	0.23	0.07	0.05	0.15	12881772	31108	12154	5530	14446	0	-14755	-3493	-2613	0	14755	3493	2613	-100.00%	-100.00%	-100.00%
fpga10_13_uns_rcr.cnf	UNSAT	0.03	42	0	955.19	0.52	0.19	0.04	0.19	42096627	63445	25671	4938	16921	0	-27945	-5444	-2520	0	27945	5444	2520	-100.00%	-100.00%	-100.00%
fpga10_15_uns_rcr.cnf	UNSAT	0.05	46	0	1841.00	0.56	0.18	0.11	0.16	60680481	57573	19039	9183	13249	0	-26455	-6023	-4292	0	26455	6023	4292	-100.00%	-100.00%	-100.00%
fpga10_20_uns_rcr.cnf	UNSAT	0.12	57	0	1271.76	1.00	0.26	0.06	0.28	29871337	70974	21404	4498	16306	0	-41066	-7857	-4154	0	41066	7857	4154	-100.00%	-100.00%	-100.00%
fpga11_13_uns_rcr.cnf	UNSAT	0.05	44	0		3.92	0.22	0.26	0.83		328285	25790	19236	56623	0	-138326	-8023	-10816	0	138326	8023	10816	-100.00%	-100.00%	-100.00%
fpga11_14_uns_rcr.cnf	UNSAT	0.06	46	0		4.56	0.53	0.12	0.69		358962	51389	10843	48327	0	-124565	-11115	-4894	0	124565	11115	4894	-100.00%	-100.00%	-100.00%
fpga11_15_uns_rcr.cnf	UNSAT	0.07	49	0		5.84	0.26	0.12	0.52		449749	29983	9836	32194	0	-203743	-7986	-4955	0	203743	7986	4955	-100.00%	-100.00%	-100.00%
fpga11_20_uns_rcr.cnf	UNSAT	0.15	59	0		7.76	0.68	0.16	1.11		404998	45832	9746	54054	0	-302291	-14903	-7197	0	302291	14903	7197	-100.00%	-100.00%	-100.00%
hole006.cnf	UNSAT	0	11	0	0.00	0.00	0.00	0.00	0.00	2357	16	16	16	48	0	-19	-15	-15	0	19	15	15	-100.00%	-100.00%	-100.00%
hole007.cnf	UNSAT	0	13	0	0.01	0.00	0.00	0.00	0.00	13097	22	22	22	96	0	-26	-21	-21	0	26	21	21	-100.00%	-100.00%	-100.00%
hole008.cnf	UNSAT	0	15	0	0.16	0.00	0.00	0.00	0.00	51046	29	29	29	124	0	-34	-28	-28	0	34	28	28	-100.00%	-100.00%	-100.00%
hole009.cnf	UNSAT	0	17	0	1.66	0.00	0.00	0.00	0.00	363799	37	37	37	200	0	-43	-36	-36	0	43	36	36	-100.00%	-100.00%	-100.00%
hole010.cnf	UNSAT	0	19	0	108.97	0.00	0.00	0.00	0.00	12507767	46	46	46	265	0	-53	-45	-45	0	53	45	45	-100.00%	-100.00%	-100.00%
hole011.cnf	UNSAT	0	21	0	2020.84	0.00	0.00	0.00	0.00	129811853	56	56	56	369	0	-64	-55	-55	0	64	55	55	-100.00%	-100.00%	-100.00%
hole012.cnf	UNSAT	0	23	0		0.00	0.00	0.00	0.00		67	67	67	533	0	-76	-66	-66	0	76	66	66	-100.00%	-100.00%	-100.00%
hole013.cnf	UNSAT	0.01	25	0		0.00	0.00	0.00	0.00		79	79	79	672	0	-89	-78	-78	0	89	78	78	-100.00%	-100.00%	-100.00%
hole014.cnf	UNSAT	0.01	27	0		0.00	0.00	0.00	0.00		92	92	92	852	0	-103	-91	-91	0	103	91	91	-100.00%	-100.00%	-100.00%
hole015.cnf	UNSAT	0.02	29	0		0.00	0.00	0.00	0.00		106	106	106	1094	0	-118	-105	-105	0	118	105	105	-100.00%	-100.00%	-100.00%
hole020.cnf	UNSAT	0.1	39	0		0.00	0.00	0.00	0.00		191	191	191	3380	0	-208	-190	-190	0	208	190	190	-100.00%	-100.00%	-100.00%
hole030.cnf	UNSAT	0.7	59	0		0.00	0.00	0.00	0.00		436	436	436	12140	0	-463	-435	-435	0	463	435	435	-100.00%	-100.00%	-100.00%
hole040.cnf	UNSAT	2.89	79	0		0.00	0.00	0.00	0.00		781	781	781	21688	0	-818	-780	-780	0	818	780	780	-100.00%	-100.00%	-100.00%
hole050.cnf	UNSAT	8.75	99	0		0.01	0.01	0.02	0.05		1226	1226	1226	76966	0	-1273	-1225	-1225	0	1273	1225	1225	-100.00%	-100.00%	-100.00%
hole060.cnf	UNSAT	21.12	119	0		0.02	0.02	0.04	0.05		1771	1771	1771	125966	0	-1828	-1770	-1770	0						