

DETECTION LIMIT: 1000s		Problem info				Search time (s)					Decisions					Total propagation					Symmetry propagation			Unit propagation					Unit/Symmetry Propagation		
RUN TIME LIMIT: 5000s		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	Minisat	+SP(SAT) no storing	+SP(SAT) storing	+SP(SAT) optimized	+Shatter	+SP(SAT) no storing	+SP(SAT) storing	+SP(SAT) optimized
Problem																															
fpga10_8_sat.cnf	SAT	0	22	0	0.00	0.00	0.00	0.00	0.00	0.00	405	338	352	320	503	3056	2638	2781	2413	3337	150	175	258	3056	2488	2606	2155	3337	6.03%	6.72%	11.97%
fpga10_9_sat.cnf	SAT	0.01	23	0	0.00	0.00	0.00	0.00	0.00	0.00	408	443	348	316	607	3364	3619	2562	2670	2872	178	150	229	3364	3441	2412	2441	2872	5.17%	6.22%	9.38%
fpga12_11_sat.cnf	SAT	0.02	29	0	0.00	0.00	0.00	0.00	0.00	0.00	467	325	363	524	474	3659	2714	3001	4441	3097	154	137	333	3659	2560	2864	4108	3097	6.02%	4.78%	8.11%
fpga12_8_sat.cnf	SAT	0.01	24	0	0.00	0.00	0.00	0.00	0.00	0.00	296	485	324	472	602	2264	3651	2100	3656	2838	140	138	296	2264	3511	1962	3360	2838	3.99%	7.03%	8.81%
fpga12_9_sat.cnf	SAT	0.01	25	0	0.00	0.00	0.00	0.00	0.00	0.00	451	343	378	492	713	3573	2500	2388	4159	6612	114	133	302	3573	2386	2255	3857	6612	4.78%	5.90%	7.83%
fpga13_10_sat.cnf	SAT	0.02	28	0	0.00	0.00	0.00	0.00	0.00	0.00	278	877	477	396	591	2223	7736	3452	3703	2822	290	163	212	2223	7446	3289	3491	2822	3.89%	4.96%	6.07%
fpga13_12_sat.cnf	SAT	0.03	32	0	0.00	0.00	0.00	0.00	0.00	0.00	316	310	334	365	1112	2840	2610	2794	4039	5243	81	68	231	2840	2529	2726	3808	5243	3.20%	2.49%	6.07%
fpga13_9_sat.cnf	SAT	0.01	26	0	0.00	0.00	0.00	0.00	0.00	0.00	330	350	858	696	601	2569	2295	7201	7705	6654	90	167	360	2569	2205	7034	7345	6654	4.08%	2.37%	4.90%
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	67227297	1400668	184199	84467	406313	54908	3786	3488	67227297	1345760	180413	80979	406313	4.08%	2.10%	4.31%	
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	150276769	347458	141348	77183	478956	14755	3493	2613	150276769	332703	137855	74570	478956	4.43%	2.53%	3.50%	
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	519910130	772863	353896	72246	668044	27945	5444	2520	519910130	744918	348452	69726	668044	3.75%	1.56%	3.61%	
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	861526582	798040	269767	139644	509944	26455	6023	4292	861526582	771585	263744	135352	509944	3.43%	2.28%	3.17%	
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	578921696	1264323	438893	94108	842632	41066	7857	4154	578921696	1223257	431036	89954	842632	3.36%	1.82%	4.62%	
fpga11_13_uns_rcr.cnf	UNSAT	0.05	44	0	5084.18	3.92	0.22	0.26	0.83	156763955	328285	25790	19236	56623	1862835438	3883120	295693	268453	2074116	138326	8023	10816	1862835438	3744794	287670	257637	2074116	3.69%	2.79%	4.20%	
fpga11_14_uns_rcr.cnf	UNSAT	0.06	46	0	5084.25	4.56	0.53	0.12	0.69	144366087	358962	51389	10843	48327	1845034445	4521051	664593	124565	1705635	124565	11115	4894	1845034445	4396486	653478	146966	1705635	2.83%	1.70%	3.33%	
fpga11_15_uns_rcr.cnf	UNSAT	0.07	49	0	5084.17	5.84	0.26	0.12	0.52	128133647	449749	29983	9836	32194	1751289839	6320357	424998	151441	1364837	203743	7986	4955	1751289839	6116614	417012	146486	1364837	3.33%	1.92%	3.38%	
fpga11_20_uns_rcr.cnf	UNSAT	0.15	59	0	5083.85	7.76	0.68	0.16	1.11	84414668	404998	45832	9746	54054	160660908	7528697	853502	190844	2930058	302291	14903	7197	160660908	7226406	838599	183647	2930058	4.18%	1.78%	3.92%	
chnl10_11.cnf	UNSAT	0.01	39	0	167.23	0.00	0.00	0.00	0.00	12437023	46	46	46	1473	139066233	239	239	239	3620	53	53	53	139066233	186	186	186	3620	28.49%	28.49%	28.49%	
chnl10_12.cnf	UNSAT	0.03	41	0	84.98	0.00	0.00	0.00	0.00	6050506	46	46	46	1682	75992394	258	258	258	3952	53	53	53	75992394	205	205	205	3952	25.85%	25.85%	25.85%	
chnl10_13.cnf	UNSAT	0.03	43	0	94.77	0.00	0.00	0.00	0.00	6006811	46	46	46	1766	82625001	277	277	277	3998	53	53	53	82625001	224	224	224	3998	23.66%	23.66%	23.66%	
chnl11_12.cnf	UNSAT	0.03	43	0	3353.05	0.00	0.00	0.00	0.00	127407652	56	56	56	2017	1441292940	285	285	285	7678	64	64	64	1441292940	221	221	221	7678	28.96%	28.96%	28.96%	
chnl11_13.cnf	UNSAT	0.04	45	0	3868.64	0.00	0.00	0.00	0.00	126818865	56	56	56	2264	1578025794	306	306	306	8206	64	64	64	1578025794	242	242	242	8206	26.45%	26.45%	26.45%	
chnl11_20.cnf	UNSAT	0.13	59	0	3405.10	0.00	0.00	0.00	0.00	58302347	56	56	56	3954	1173568158	453	453	453	8932	64	64	64	1173568158	389	389	389	8932	16.45%	16.45%	16.45%	
hole006.cnf	UNSAT	0	11	0	0.00	0.00	0.00	0.00	0.00	2357	16	16	16	48	26559	94	87	87	211	19	15	15	26559	75	72	72	211	25.33%	20.83%	20.83%	
hole007.cnf	UNSAT	0	13	0	0.01	0.00	0.00	0.00	0.00	13097	22	22	22	96	156631	124	116	116	323	26	21	21	156631	98	95	95	323	26.53%	22.11%	22.11%	
hole008.cnf	UNSAT	0	15	0	0.16	0.00	0.00	0.00	0.00	51046	29	29	29	124	515114	158	149	149	476	34	28	28	515114	124	121	121	476	27.42%	23.14%	23.14%	
hole009.cnf	UNSAT	0	17	0	1.66	0.00	0.00	0.00	0.00	363799	37	37	37	200	4040794	196	186	186	646	43	36	36	4040794	153	150	150	646	28.10%	24.00%	24.00%	
hole010.cnf	UNSAT	0	19	0	108.97	0.00	0.00	0.00	0.00	12507767	46	46	46	265	140645683	238	227	227	899	53	45	45	140645683	185	182	182	899	28.65%	24.73%	24.73%	
hole011.cnf	UNSAT	0	21	0	2020.84	0.00	0.00	0.00	0.00	129811853	56	56	56	369	1500316754	284	272	272	1300	64	55	55	1500316754	220	217	217	1300	29.09%	25.35%	25.35%	
hole012.cnf	UNSAT	0	23	0	5083.98	0.00	0.00	0.00	0.00	228153077	67	67	67	533	2612507621	334	321	321	1699	76	66	66	2612507621	258	255	255	1699	29.46%	25.88%	25.88%	
hole013.cnf	UNSAT	0.01	25	0	5084.39	0.00	0.00	0.00	0.00	193788408	79	79	79	672	2233424008	3888															