TIME LIMIT: 5000s		Pro	blem info			Sea	rch time (s))			[Decisions				Ur	nit propagation			Symme	etry propaga	ation	Unit/Symı	metry Propa	gation
		Detection	Total	Inverting		+SP(SAT) +			-Shatter	Minisat	+SP(SAT)	*	+SP(SAT)	+Shatter	Minisat	+SP(SAT)	+SP(SAT)	+SP(SAT)		` , ,	+SP(SAT)	. `	. ,	-SP(SAT) +	`
Problem	Status	. ,	symmetries	symmetries		<u> </u>		ptimized			no storing		optimized	222		no storing	storing	optimized		no storing	storing	optimized			ptimized
battleship-07-13-sat.cnf battleship-08-15-sat.cnf	SAT SAT	0.37 0.01	12 14	0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	414 277	258 388	237 268	517 429	606 1078	3750 1799	1886 2826	1560 1670	4170 3261	4671 7947	5 28	6 22	42 68	0.27% 0.99%	0.38% 1.32%	1.01% 2.09%
battleship-09-17-sat.cnf	SAT	0.01	15	0	0.00	0.00	0.00	0.05	0.03	1395	1304	1773	5148	4203	9720	10498	14202	43452	111235	146	163	675	1.39%	1.15%	1.55%
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	4436583	1537541	1613797	1660125	7764867	43536	18319	20003	2.83%	1.14%	1.20%
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	3491	20944	5545	52407	171868	359	34	752	1.71%	0.61%	1.43%
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	3914	3893	4403	2579	57542	17	15	9	0.44%	0.34%	0.35%
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	7740	5674	21460	6386	70647	23	182	51	0.41%	0.85%	0.80%
battleship-14-26-sat.cnf	SAT	0.06	17 22	0	718.18	104.95 1257.95	1060.11	546.06 296.29	14.25 87.82	29589334 21961391	4339151 40815286	37732810 744001	17825596	735680 3373200	380912396 244436516	57105396 517367610	493495910	227603682	31417543 176748246	2606234	4929246	2476104	4.56% 4.67%	1.00%	1.09%
battleship-15-29-sat.cnf battleship-24-57-sat.cnf	SAT SAT	0.31 1.77	41	0	385.96 16.46	24.98	16.14 1.06	296.29	32.49	1706712	2217148	223013	10058234 779295	3102966	10179138	517367619 12317545	7997591 991019	114418159 3892798	81779875	24137589 392398	89171 10196	1311642 46433	4.67% 3.19%	1.11% 1.03%	1.15% 1.19%
fpga10_8_sat.cnf	SAT	0	22	0	0.00	0.00	0.00	0.00	0.00	405	338	352	320	503	3056	2488	2606	2155	3337	150	175	258	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	408	443	348	316	607	3364	3441	2412	2441	2872	178	150	229	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	467	325	363	524	474	3659	2560	2864	4108	3097	154	137	333	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	296	485	324	472	602	2264	3511	1962	3360	2838	140	138	296	3.99%	7.03%	8.81%
fpga12_9_sat.cnf	SAT	0.01	25 28	0	0.00	0.00	0.00	0.00	0.00	451 278	343 877	378 477	492 396	713	3573	2386 7446	2255	3857 3491	6612	114 290	133	302	4.78%	5.90%	7.83% 6.07%
fpga13_10_sat.cnf fpga13 12 sat.cnf	SAT SAT	0.02 0.03	28 32	0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	278 316	310	334	396 365	591 1112	2223 2840	7446 2529	3289 2726	3808	2822 5243	290 81	163 68	212 231	3.89% 3.20%	4.96% 2.49%	6.07%
fpga13_12_sat.cnf	SAT	0.03	26	0	0.00	0.00	0.00	0.00	0.00	330	350	858	696	601	2569	2205	7034	7345	6654	90	167	360	4.08%	2.43%	4.90%
battleship-05-08-unsat.cnf	UNSAT	0	8	0	0.01	0.00	0.00	0.00	0.00	9281	2384	1406	463	447	93196	22286	13230	4332	5752	388	251	92	1.74%	1.90%	2.12%
battleship-06-09-unsat.cnf	UNSAT	0	7	0	0.13	0.03	0.02	0.00	0.00	45893	9919	7947	2358	1105	524592	106585	85957	24425	15784	1427	858	399	1.34%	1.00%	1.63%
battleship-07-12-unsat.cnf	UNSAT	0	10	0	485.08	39.05	17.28	2.01	1.44	61922751	6055749	3040267	295311	141734	694386783	68281758	31759850	3105172	3507254	1752230	432591	46952	2.57%	1.36%	1.51%
battleship-10-10-unsat.cnf	UNSAT	0	8	0	1.55	2.18	1.13	0.17	0.03	199396	204969	107931	13673	5017	3463569	3558182	1950482	256967	115266	168	84 47061	245	0.00%	0.00%	0.10% 0.27%
battleship-12-12-unsat.cnf battleship-14-14-unsat.cnf	UNSAT UNSAT	0.01 0.54	δ 10	0	402.26	117.01	45.60	0.70 1371.62	1.33 736.05	29000352	6678652	2828621	45112	119304 18278571	560429557 6110885837	128740998 5601700715	55264185 5635591918	898707 1491640260	4549889 855847664	180905 226	47061 213	2427 43271	0.14% 0.00%	0.09% 0.00%	0.27%
battleship-15-15-unsat.cnf	UNSAT	0.09	10	0				148.86	730.03				7252565	10270371		4748141863			5608586973	1873	351	19620	0.00%	0.00%	0.01%
·	UNSAT	1.63	17	0				31.26					1476236			4228866231	4268088023		5444156621	6295016	2019379	62635	0.15%	0.05%	0.22%
chnl10_11.cnf	UNSAT	0.01	39	0	167.23	0.00	0.00	0.00	0.00	12437023	46	46	46	1473	139066233	186	186	186	3620	53	53	53	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	205	205	205	3952	53	53	53	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	224	224	224	3998	53	53	53	23.66%	23.66%	23.66%
chnl11_12.cnf chnl11_13.cnf	UNSAT UNSAT	0.03 0.04	43 45	0	3353.05 3868.64	0.00 0.00	0.00 0.00	0.00 0.00	0.00	127407652 126818865	56 56	56 56	56 56	2017 2264	1441292940 1578025794	221 242	221 242	221 242	7678 8206	64 64	64 64	64 64	28.96% 26.45%	28.96% 26.45%	28.96% 26.45%
chnl11 20.cnf	UNSAT	0.04	4 5	0	3405.10	0.00	0.00	0.00	0.00	58302347	56	56	56	3954	1173568158	389	389	389	8932	64	64	64	16.45%	16.45%	16.45%
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	1345760	180413	80979	406313	54908	3786	3488	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	332703	137855	74570	478956	14755	3493	2613	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	744918	348452	69726	668044	27945	5444	2520	3.75%	1.56%	3.61%
fpga10_15_uns_rcr.cnf	UNSAT UNSAT	0.05 0.12	46 57	0	1841.00 1271.76	0.56 1.00	0.18 0.26	0.11 0.06	0.16	60680481 29871337	57573 70974	19039 21404	9183 4498	13249 16306	861526582 578921696	771585 1223257	263744 431036	135352 89954	509944 842632	26455 41066	6023 7857	4292 4154	3.43% 3.36%	2.28% 1.82%	3.17% 4.62%
fpga10_20_uns_rcr.cnf fpga11_13_uns_rcr.cnf	UNSAT	0.12	51 ΔΔ	0	12/1./0	3.92	0.20 0.22	0.06	0.28 0.83	290/133/	70974	21404	19236	10300	1862835438	3744794	287670	257637	2074116	138326	8023	10816	3.69%	2.79%	4.82%
fpga11_14_uns_rcr.cnf	UNSAT	0.06	46	0		4.56	0.53	0.12	0.69				10843		1845034445	4396486	653478	146966	1705635	124565	11115	4894	2.83%	1.70%	3.33%
fpga11_15_uns_rcr.cnf	UNSAT	0.07	49	0		5.84	0.26	0.12	0.52				9836		1751289839	6116614	417012	146486	1364837	203743	7986	4955	3.33%	1.92%	3.38%
fpga11_20_uns_rcr.cnf	UNSAT	0.15	59	0		7.76	0.68	0.16	1.11				9746		1606609908	7226406	838599	183647	2930058	302291	14903	7197	4.18%	1.78%	3.92%
hole006.cnf	UNSAT	0	11	0	0.00	0.00	0.00	0.00	0.00	2357	16	16	16	48	26559	75	72	72	211	19	15	15		20.83%	20.83%
hole007.cnf hole008.cnf	UNSAT UNSAT	0	13 15	0	0.01	0.00	0.00	0.00	0.00	13097 51046	22	22 29	22 29	96 124	156631 515114	98 124	95 121	95 121	323 476	26 24	21 28	21	26.53% 27.42%	22.11% 23.14%	22.11% 23.14%
hole008.cnf	UNSAT	0	15 17	0	0.16 1.66	0.00 0.00	0.00 0.00	0.00 0.00	0.00	363799	29 37	37	29 37	200	4040794	153	150	150	646	43	36	36	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	185	182	182	899	53	45	45	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	220	217	217	1300	64	55	55	29.09%	25.35%	25.35%
hole012.cnf	UNSAT	0	23	0		0.00	0.00	0.00	0.00		67	67	67		2612507621	258	255	255	1699	76	66	66	29.46%	25.88%	25.88%
hole013.cnf	UNSAT	0.01	25	0		0.00	0.00	0.00	0.00		79	79	79		2233424008	299	296	296	2209	89	78	78	29.77%	26.35%	26.35%
hole014.cnf hole015.cnf	UNSAT UNSAT	0.01 0.02	27 29	0		0.00	0.00 0.00	0.00 0.00	0.00		92 106	92 106	92 106		1881292385 1493369253	343 390	340 387	340 387	3680 4988	103 118	91 105	91 105	30.03% 30.26%	26.76% 27.13%	26.76% 27.13%
hole020.cnf	UNSAT	0.02	39	0		0.00 0.00	0.00	0.00	0.00		191	191	191		621030693	670	667	667	18331	208	190	190	31.04%	28.49%	28.49%
hole030.cnf	UNSAT	0.7	59	0		0.00	0.00	0.00	0.00		436	436	436		679591159	1455	1452	1452	81276	463	435	435	31.82%	29.96%	29.96%
hole040.cnf	UNSAT	2.89	79	0		0.00	0.00	0.00	0.00		781	781	781		810782492	2540	2537	2537	127811	818	780	780	32.20%	30.74%	30.74%
hole050.cnf	UNSAT	8.75	99	0		0.01	0.01	0.02	0.05		1226	1226	1226		709025776	3925	3922	3922	564296	1273	1225	1225	32.43%	31.23%	31.23%
hole060.cnf	UNSAT	21.12	119	0		0.02	0.02	0.04	0.05		1771	1771	1771		541436500	5610	5607	5607	721367	1828	1770	1770		31.57%	31.57%
hole070.cnf hole080.cnf	UNSAT UNSAT	48.29 93.84	139	0		0.03	0.03	0.08	0.11		2416	2416	2416	602007	510241929	7595 9880	7592 9877	7592	1494337	2483 3238	2415	2415	32.69% 32.77%	31.81%	31.81% 31.99%
hole090.cnf	UNSAT	93.84 157.78	159 179	0		0.06 0.11	0.06 0.10	0.11 0.22	0.27 0.48		3161 4006	3161 4006	3161 4006	602887 699692		12465	9877 12462	9877 12462	3229838 5500889	3238 4093	3160 4005	3160 4005	32.77% 32.84%	31.99% 32.14%	31.99%
hole100.cnf	UNSAT	267.55	199	0		0.16	0.17	0.35	0.87		4951	4951	4951	2180380		15350	15347	15347	10209875	5048	4950	4950	32.89%	32.25%	32.25%
Urq3_5.cnf	UNSAT	0.02	29	29	139.71	0.00	0.00	0.00	0.11	73481538	6572	6124	33	91985	301105603	18726	17228	77	453961	1456	1251	27	7.78%	7.26%	35.06%
Urq4_5.cnf	UNSAT	0.04	43	43		0.04	0.00	0.00	38.91				43		7582631639	93845	4963	104	115646665	3732	219	42	3.98%	4.41%	40.38%
Urq5_5.cnf	UNSAT	0.18	72	72		10.43	6.82	0.00	3810.15				72		6225473284	16067716	11017032		8379761695	626052	262531	71		2.38%	42.01%
Urq6_5.cnf	UNSAT UNSAT	0.56 1.29	109 143	109 143				0.00 0.00					139 145			5108110887 5065213343			8248792875 7900192561	81559258 57167105	42002388	107 141	1.60% 1.13%	0.83% 0.63%	27.30% 37.50%
Urq7_5.cnf Urq8 5.cnf	UNSAT	1.29 3.27	200	200				0.00					145 205			4647462949			6942316203			198	0.83%	0.63% 0.43%	37.50% 39.92%
· =	UNSAT		41	40	141.39	0.05	0.03		3.06	72930235	32840	29191		1686967	583733727				18817376						
	UNSAT		80	80			29.65		1972.32				84		13264127805			447	7609158516	1406335	548316	78	1.21%	0.64%	17.45%