DETECTION UNIT 4000	T.	5			I				1	Sneet1				1					1			1		. 5	agation
DETECTION LIMIT: 1000s RUN TIME LIMIT: 5000s		Proble Detection	em info Total	Inverting	Minisat +		rch time (s) SP(SAT) -		+Shatter	Minisat -		Decisions +SP(SAT)	+SP(SAT)	+Shatter	Minisat	+SP(SAT)	nit propagation +SP(SAT)	+SP(SAT)	+Shatter	-	netry propagat +SP(SAT) +		Unit/Symr + SP(SAT) +	netry Propag ·SP(SAT) +	gation +SP(SAT)
Problem	Status	time (s)	symmetries	symmetries		`	`. ′	optimized			no storing	`. ′	optimized			no storing	storing	optimized		no storing	`. ,	. `	`	. `.	optimized
GreenTao_2-4-4_512.cnf	NO DATA		2	2											5664263651	5525306662	5478862823	5324373468	5603652826	0	0	0	0.00%	0.00%	0.00%
li-exam-61.shuffled-as.sat03-366.cnf openstacks-sequencedstrips-nonadl-nonnegated-os-sequencedstrips-p30 1.035-NOTKNOWN.cnf	NO DATA		104 4	0											6225443628 1930502484	7673035057 1838681594	9370175438 1734802421	9052752428 1759951689	5254351187 2381621595	308435 34519	2560 56	3215 64	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%
openstacks-sequencedstrips-nonadl-nonnegated-os-sequencedstrips-p30_3.025-NOTKNOWN.cnf	NO DATA		3	0											3437148765	3598047892	3412885616	3413777784	3647673902	2848	20	20	0.00%	0.00%	0.00%
rbcl_xits_09_NO DATA.cnf	NO DATA		1	0											885311105	357163178	377271147	552002829	467019472	111170	6978	19460	0.03%	0.00%	0.00%
rpoc_xits_09_UNSAT.cnf SGI_30_80_17_90_7-log.shuffled-as.sat03-190.cnf	NO DATA		2	0											1492732087 685769332	916707883 645389113	1934613033 693228150	850967286 649339322	1907759271 794519090	418708 7766210	285352 5964965	165664 6181909	0.05% 1.20%	0.01% 0.86%	0.02% 0.95%
VanDerWaerden_2-3-15_218.cnf	NO DATA		1	0											3606697986		3304394792	3238559931	3843082762	1700210	114	1264	0.00%	0.00%	0.93%
VanDerWaerden_2-3-16_238.cnf	NO DATA		1	0											3288597429	3280846881	3188630731	3245952235	3517993534	32	36	475	0.00%	0.00%	0.00%
VanDerWaerden_2-3-17_279.cnf	NO DATA		1	0											3225961808	3138619980	3140293236	2822101355	3484126168	7	3	258	0.00%	0.00%	0.00%
VanDerWaerden_2-3-18_312.cnf 289-sat-11x10.cnf	NO DATA SAT	1.41	22	0	0.00	0.00	0.00	0.01	0.00	1830	1263	917	1473	5018	2934924737 17949	2852083824 11079	2760456408 8316	2774920094 14035	3184249378 28833	158	102	352	0.00% 1.43%	0.00% 1.23%	0.00% 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 289-sat-12x15.cnf	SAT SAT	8.52 10.68	27 28	0	0.00	0.00 0.01	0.00 0.01	0.01 0.05	0.01	2013 2072	1783 2827	1609 2607	1691 2274	17257 38341	19911 17705	19448 23600	13590 27524	16758 26595	104889 884291	309 386	245 206	798 748	1.59% 1.64%	1.80% 0.75%	4.76% 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 289-sat-5x8.cnf	SAT SAT	0.03 0.05	13 14	0	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	60 249	60 109	60 102	60 83	361 557	128 1650	128 575	128 469	128 325	639 913	0 10	0 10	0 17	0.00% 3.30%	0.00% 2.13%	0.00% 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 16	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 289-sat-7x6.cnf	SAT SAT	0.15 0.07	16 14	0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	305 79	341 79	334 79	282 75	1003 893	2477 249	2357 249	2400 249	1992 199	1561 1549		60 0	4	2.50% 0.00%	2.50% 0.00%	4.57% 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 AProVE11-15.cnf	SAT SAT	244.97 951.56	42 55	0	0.27	0.34 6.28	0.32 6.09	0.30 11.85	0.27 2.28	2483 66741	2483 65796	2483 76477	2483 86532	2483 131695	1606899 29168646	1606899 33967751	1606899 34755330	1606899 54251091	1607046 19075384	0 4665	0 370	240	0.00% 0.01%	0.00% 0.00%	0.00% 0.00%
bart17.shuffled.cnf	SAT	0.03	31	0	0.00	0.20	0.09	0.00	0.00	1008	162	448	129	1291	11421	2088	4893	1589	8333		34	43	0.86%	0.69%	2.71%
dp04s04.shuffled.cnf	SAT	0.04	1	0	0.00	0.00	0.00	0.00	0.00	124	132	132	132	171	7848	8772	8772	8772	6135	2	1	1	0.02%	0.01%	0.01%
dp10s10.shuffled.cnf driverlog1_ks99i.renamed-as.sat05-3951.cnf	SAT SAT	2.36	3 1	0	0.08	0.13 0.00	0.09 0.00	0.09 0.00	1.69 0.00	4826 49	6174 49	5464 40	5464 40	34422	1088256 207	1360326 207	1026432 207	1026432 207	16328287 258	46	18	18	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%
em_7_3_6_cmp.cnf	SAT	4.88	361	0	0.00 218.63	1521.88	2844.23	990.71	2742.34	7077749	24699095	37206782	11337663	26511072	318239177	1444163124	2383020925	710315183	2443220363	749361	195284	209357	0.05%	0.01%	0.03%
ferry5_ks99i.renamed-as.sat05-3994.cnf	SAT	0.08	4	0	0.00	0.00	0.00	0.01	0.01	1195	918	902	966	4107	46744	31785	31264	46425	150063	18	15	214	0.06%	0.05%	0.46%
GreenTao_2-4-4_511.cnf	SAT	0.16	2	2	0.41	0.44	0.47	0.47	92.96	C1 47F	C1 47F	C1 47F	C1 47F	5995470	5699943784	5410270318	5502170958	5524729717	170609787	0	0	0	0.00%	0.00%	0.00%
lksat-n900-m6174-k4-l4-s819398222.used-as.sat04-929.cnf mod2c-rand3bip-sat-220-3.shuffled-as.sat05-2490.cnf	SAT SAT	0.22 0.2	87 91	0	0.41 3698.50	0.44	0.47	0.47 4330.95	0.91 326.92	61475 137443308	61475	61475	61475 153694601	93723 11093980	2408805 5590610806	2408805 6783878564	2408805 6710668727	2408805 6249339590	5231540 778599423	7005350	290662	276447	0.00% 0.10%	0.00% 0.00%	0.00% 0.00%
mod2c-rand3bip-sat-230-3.shuffled-as.sat05-2505.cnf	SAT	0.24	96	0	0000.00			4000.00	500.61	101440000			10000-001	22986542	10880559734	8574844759		6625970353	1602865449	8892313	476787	371121	0.10%	0.01%	0.01%
mod2c-rand3bip-sat-240-2.shuffled-as.sat05-2519.cnf	SAT	0.25	98	0					726.31					37861272	12052035807	10056993748		10091769987	2515001071	8142646	450757	431618	0.08%	0.00%	0.00%
mod3block_2vars_11gates_u2_autoenc.cnf rbcl_xits_15_SAT.cnf	SAT SAT	14.2 9.17	<u>1</u> 1	0	0.02	3302.42 0.01	0.01	0.04	0.12	1760	65379290 1385	1385	2763	10679	1334005378 41752	772419317 60431	1228934372 60438	783493074 138632	1394138280 380057	333656	383680 6	328548	0.04% 0.01%	0.03% 0.01%	0.04% 0.04%
rbcl_xits_18_SAT.cnf	SAT	15	1	0	0.02	0.02	0.02	0.02	0.02	1141	1141	1141	1141	1290	9781	9745	9745	9745	18154	1	1	1	0.01%	0.01%	0.01%
rovers1_ks99i.renamed-as.sat05-3971.cnf	SAT	0.01	2	0	0.00	0.00	0.00	0.00	0.00	106	106	106	106	235	1423	1423	1423	1423	1772	0	0	0	0.00%	0.00%	0.00%
satsgi-n26himBHm28-p0-q293.cnf SGI 30 80 15 90 4-dir.shuffled-as.sat03-6.cnf	SAT SAT	0.44 0.06	52 6	0	0.00	0.00	0.00	0.00 3407.39	0.01 1866.50	379	379	379	379 7507211	7659 7069264	728 219783223	728 196273947	728 186244447	728 180080109	74893 213047685	0 771405	0 357922	0 445468	0.00% 0.39%	0.00% 0.19%	0.00% 0.25%
vda_gr_rcs_w9.shuffled.cnf	SAT	42.94	79	0	0.00	0.03	0.03	0.22	0.03	1767	1767	1767	1767	7591	62377	62377	62377	62377	81430	771403	337922	443400 5	0.00%	0.19%	0.23%
289-unsat-13x32.cnf	UNSAT	215.4	46	0											2386268402	2210520387	2267341458	1387573689	2865440755	2077181	1459600	1209861	0.09%	0.06%	0.09%
289-unsat-14x34.cnf 289-unsat-14x38.cnf	UNSAT UNSAT	359.82 540.51	49 53	0											2052520182 2048302475	2139483340 2130675495	2105877465 1992029051	1249843464 1248958821	3015377102 2137648442	2165785 4611997	2056802 2294948	1188292 1555510	0.10% 0.22%	0.10% 0.12%	0.10% 0.12%
dead-dnd003.shuffled-as.sat05-3109.cnf	UNSAT	0.63	45	1	3053.83	2299.99	536.84	1062.66	1765.92	29698933	21615427	5302996	10578106	17571172	1724940825	1277712107	332025418	637573481	1060827224	7823	8045	21000	0.00%	0.1270	0.00%
eulcbip-7-UNSAT.shuffled-as.sat05-3936.cnf	UNSAT	0	1	1											15276843549			9671291502		0	0	0	0.00%	0.00%	0.00%
fphp-020-019.shuffled-as.sat05-1232.cnf fphp-030-029.shuffled-as.sat05-1234.cnf	UNSAT UNSAT	0.14	37 57	0				3838.80					21036564		392643072 178370647	275368232 160018003	465525156 175344606	320489654 164021769	1848141927 1718696349	4450599 1976548	4985403 1164932	5285353 1468619	1.62% 1.24%	1.07% 0.66%	1.65% 0.90%
gensys-icl005.shuffled-as.sat05-3826.cnf	UNSAT	0.91 15.73	57 521	1											3268490421	2803977228		2639618753	3036039481	9745	1439	205311	0.00%	0.00%	0.90% 0.01%
gensys-ukn006.shuffled-as.sat05-3846.cnf	UNSAT	10.06	341	1											3443800188	3248639129	3172421663	3025583892	3478884921	22395	7075	202936	0.00%	0.00%	0.01%
gripper13u.shuffled-as.sat03-395.cnf	UNSAT	3.12	13	0		047.47	351.38	36.27	2061 52		20511506	4019888	441392	75.477551	8903840917	7657631563	619931250	59041923	6652401914		467882	244032	0.23%	0.08%	0.41%
gt-030.shuffled-as.sat05-1295.cnf homer14.shuffled.cnf	UNSAT UNSAT	11.55 0.06	26 46	0	1919.47	947.47 0.74	21.80 0.10	42.57 0.07	2061.52 0.04	58481045	39511506 73836	1256897 12291	1059666 6113	75477551 5824	3133782172 827773719	534988077 1044557	14861917 192043	16498298 94269	1197183502 216806	2435374 32685	72439 4013	218074 3556	0.46% 3.13%	0.49% 2.09%	1.32% 3.77%
homer16.shuffled.cnf	UNSAT	0.04	43	0	1626.65	3.46	0.56	0.25	0.48	65738455	326114	64852	21558	37617	743315411	3595578	743838	257839	1331890		14826	10130	4.08%	1.99%	3.93%
homer17.shuffled.cnf	UNSAT	0.05	45 45	0	200.00	10.38	0.47	0.24	0.32	10000000	779404	46615	18486	25222	1634059903	9092495	581629	251599	959151	294030	11428	9896	3.23%	1.96%	3.93%
hwmcc10-timeframe-expansion-k45-bobsm5378d2-tseitin.cnf hwmcc10-timeframe-expansion-k45-bobsmhdlc2-tseitin.cnf	UNSAT UNSAT	233.45 61.36	45 46	0	320.32	360.22	360.26	344.64	354.47	10890992	10890992	10890992	10890992	T02TA\A5	20223366234	1667533759 16295098119	1667533759 18837884777	1667533759 15808489988	1632374110 19676606456	0	U N	0	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%
hwmcc10-timeframe-expansion-k45-pdtpmsgoodbakery-tseitin.cnf	UNSAT	307.78	45	0	2994.11	3364.99	3374.31	3357.14	1960.94	8956109	8956109	8956109	8956109		15475664275	15475664275	15475664275	15475664275	11285710169	0	0	0	0.00%	0.00%	0.00%
logistics-rotate-07t5.shuffled-as.sat05-1137.cnf	UNSAT	3.15	21	0	0.92	0.27	0.09	0.10	0.53	24085	9796	5441	1792	20635	2129218	701870	320469	123646	1596158	755 971	170	312	0.11%	0.05%	0.25%
marg3x3add8.shuffled-as.sat03-1449.cnf marg3x3add8ch.shuffled-as.sat03-1448.cnf	UNSAT UNSAT	0.01 0.01	26 24	23 24	1.07 4.32	0.01 0.02	0.00 0.00	0.00 0.00	0.00 0.04	911049 3229317	7346 12075	1635 1412	119 24	3109 29846	3860050 14696661	28702 50561	6380 6617	474 80	17069 185600	311	214 138	83 23	3.38% 2.78%	3.35% 2.09%	17.51% 28.75%
mod4block_2vars_8gates_u2.cnf	UNSAT	7.61	221	0	4414.79	4971.08	4960.91	5.00	0.04	121635101			24	23040		2413455799		2413455799	2881950702	0	0	0	0.00%	0.00%	0.00%
myciel6-tr.used-as.sat04-320.cnf	UNSAT	0.02	1	0					1442.69					55357736	7178802229	6714305166	6756866116	6559528971	2340780028	26898	16458	423648	0.00%	0.00%	0.01%
openstacks-sequencedstrips-nonadl-nonnegated-os-sequencedstrips-p30_1.025-NOTKNOWN.cnf php-010-008.shuffled-as.sat05-1171.cnf	UNSAT UNSAT	161.8 0	4 16	0 0	0.28	0.01	0.00	0.00	0.00	50935	3742	1656	1093	724	3792885423 580161	2910465351 39663	3005210296 19362	3271873064 15011	3511211075 11808	16397 1522	27 729	35 722	0.00% 3.84%	0.00% 3.77%	0.00% 4.81%
php-020-019.shuffled-as.sat05-1190.cnf	UNSAT	0.12	37	0	0.20	0.01	0.00	0.00	5.00	JU333	3144	1000	T029	124	527809500	505506561	745200620	421724858	2694460283	9755413	7998994	8399224	3.84% 1.93%	3.77% 1.07%	4.81% 1.99%
php-040-039.shuffled-as.sat05-1194.cnf	UNSAT	3.24	77	0											667362640	613613163	415764007	486343781	3910069184	3609782	1574729	5056443	0.59%	0.38%	1.04%
php-045-035.shuffled-as.sat05-1181.cnf	UNSAT	3.22	78	0	0.07	10.00	7.00	F 40	10.00	000040	000700	000040	04 5000	400007	657764784	518870318	546998197	468412959	2631667126	6182442	3562053	8066472	1.19%	0.65%	1.72%
rand_net60-25-10.shuffled.cnf rand_net60-30-1.shuffled.cnf	UNSAT UNSAT	0.68 1.02	1 4	0 0	3.97 0.14	16.83 0.17	7.29 0.14	5.13 0.28	10.86 0.12	262642 5791	663728 5083	339819 4791	215930 4682	422337 5964	32311021 1545335	83358550 1341582	41286463 1072194	26832315 1132239	50536243 1146547	36443 251	6424 103	5949 232	0.04% 0.02%	0.02% 0.01%	0.02% 0.02%
rand_net60-40-10.shuffled.cnf	UNSAT	1.02	→ 1	0	861.61	847.72	713.57		1175.01	12653448	9673963	7792055	8447847	14823376	3524326628		2256735868	2434857397	4192543427	722292	199896	312913	0.02% 0.03%	0.01%	0.02%
rand_net70-60-10.shuffled.cnf	UNSAT	5.96	1	0	2265.12	2563.05	3382.03	2803.44	3602.07	18875954	15199458	18515990	12892546	22612528	8815061192	7002097940	8908263668	6326105359	10764458844	1426831	486192	532826	0.02%	0.01%	0.01%
rbcl_xits_08_UNSAT.cnf SGI 30 70 15 90 1-dir.shuffled-as.sat03-136.cnf	UNSAT	2.14	1	0	1473.85	2093.42 3591.03	2783.92 1102.24		1875.16 2382.59	12679175	15149539 9218617	17104305 3256794	15127716 4267764	15017149 5106212	1314310675 205678292	1571356644 229305915	1793744163 85895683	1623517128 116590085	1655183323 194205363	71408 1217451	6583 226378	46219 476692	0.00% 0.53%	0.00% 0.26%	0.00%
SGI_30_70_15_90_1-dir.snumed-as.sat03-136.cnf SGI_30_70_15_90_1-log.shuffled-as.sat03-137.cnf	UNSAT UNSAT	0.04 1.99	7	0		3591.03 2480.61	623.42	1342.86 557.75	369.49		9218617		4267764 14091633	15115178	648203413	311426734	100306419	69204567	95128074	1217451	226378 2619774	2058222	0.53% 3.61%	0.26% 2.61%	0.41% 2.97%
smtlib-qfbv-aigs-ext_con_032_008_0256-tseitin.cnf	UNSAT	379.83	73	57		0.48	0.35	10.01			94396	85154	55004		96979978170	2230982	1575264	1187413	80114222839	671	256	162	0.03%	0.02%	0.01%
sokoban-sequential-p145-microban-sequential.030-NOTKNOWN.cnf	UNSAT	476.28	1	0	87.45	169.54	170.52	108.12	57.25	2211627	2475911	2634627	875466	1480861	370597846	434699663	472636939	149600161	301679029	4856	964	2149	0.00%	0.00%	0.00%
sokoban-sequential-p145-microban-sequential.040-NOTKNOWN.cnf VanDerWaerden_2-3-12_135.cnf	UNSAT UNSAT	868.51 0.08	<u>1</u> 1	0	109.32	102.33	106.95	67.76	4002.10 135.63	7198509	6261467	6591089	4401006	15613731 8313842	5011135961 141995934	4361850848 122956580	4519454245 129865611	2825253372 86780831	4418166369 177104538	29314 483	2648 374	34569 1494	0.00% 0.00%	0.00% 0.00%	0.00% 0.00%
VanDerWaerden_2-3-12_135.cm VanDerWaerden_2-3-13_160.cnf	UNSAT	0.08	1	0	1553.01	1411.63	100.93		1355.08		59840727		28487623	57106891	1449902696	1292727320	1002863769	616400559	1346990233		1272	3592	0.00%	0.00%	0.00%
VanDerWaerden_2-3-14_186.cnf	UNSAT	0.23	1	0											3777608420	3686036444	3716547650	3485097735	4056725362	831	831	5341	0.00%	0.00%	0.00%