

1 Test results

1.1 Γ formulas

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
20	1803	0,360	165	1	501	610
40	3683	0,351	325	1	1001	1210
60	5563	0,646	485	1	1501	1810
80	7443	1,240	645	1	2001	2410
100	9343	2,115	805	1	2501	3010
120	11503	4,054	965	1	3001	3610
140	13663	5,850	1125	1	3501	4210
160	15823	9,072	1285	1	4001	4810
180	17983	13,489	1445	1	4501	5410
200	20143	19,578	1605	1	5001	6010

1.2 Γ clausal formulas

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
20	1959	0,393	165	1	579	688
40	3999	0,509	325	1	1159	1368
60	6039	0,759	485	1	1739	2048
80	8079	1,253	645	1	2319	2728
100	10139	2,345	805	1	2899	3408
120	12459	3,870	965	1	3479	4088
140	14779	7,146	1125	1	4059	4768
160	17099	9,001	1285	1	4639	5448
180	19419	13,894	1445	1	5219	6128
200	21739	19,322	1605	1	5799	6808

1.3 Γ formulas with literals

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
20	831	0,219	52	1	324	279
40	1611	0,197	93	1	634	527
60	2374	0,304	134	1	931	768
80	3190	0,191	177	1	1245	1027
100	3879	0,217	212	1	1522	1237
120	4764	0,227	251	1	1829	1479
140	5652	0,244	292	1	2131	1722
160	6578	0,283	335	1	2447	1979
180	7449	0,280	374	1	2738	2215
200	8307	0,338	413	1	3034	2447

1.4 Γ clausal formulas with literals

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
20	972	0,262	58	1	453	340
40	1776	0,158	94	1	871	608
60	2605	0,171	132	1	1287	883
80	3469	0,185	175	1	1718	1173
100	4278	0,234	212	1	2122	1437
120	5285	0,255	254	1	2560	1734
140	6300	0,351	300	1	2978	2029
160	7191	0,364	334	1	3392	2289
180	19490	16,152	1450	1	5245	6154
200	9152	0,542	418	1	4237	2861

1.5 H formulas

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
1	61	0,168	6	1	9	16
2	328	0,090	19	2	64	86
3	1335	0,146	49	3	322	363
4	5316	0,253	117	4	1503	1575
5	21759	0,628	269	5	6908	7035
6	92066	2,365	605	6	31613	31843

1.6 H clausal formulas

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
1	81	0,172	7	1	14	23
2	505	0,104	26	2	114	137
3	2021	0,185	69	3	507	555
4	7681	0,581	171	4	2115	2212
5	29497	1,010	407	5	8879	9073
6	117121	5,199	943	6	38079	38466

1.7 PHP formulas

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
2	819	0,262	33	2	163	200
3	5392	0,369	170	6	909	994
4	34490	1,845	1127	11	3767	3928

1.8 PHP clausal formulas

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
2	1660	0,282	57	2	373	435
3	10315	0,803	304	6	1792	1938
4	66966	3,853	2101	11	6939	7214

1.9 Statman formulas

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
1	50	0,168	4	1	7	12
5	823	0,170	26	1	522	307
9	3395	0,237	60	1	2654	1315
13	9252	0,594	110	1	7666	3539
17	20340	0,890	176	1	16838	7491
21	38180	1,751	258	1	31450	13683

1.10 Statman clausal formulas

size	proof length (in characters)	time(s)	nodes	height	formula complexity	signed formula complexity
1	50	0,166	4	1	7	12
5	1921	0,189	43	1	1487	666
9	8525	0,578	111	1	8337	3086
13	23578	1,210	211	1	25027	8546
17	51702	2,194	343	1	56037	18326
21	96722	4,420	507	1	105847	33706