

**genealogy** (recursive, SAT)  
7 definitions, 11 constraints

n	Alloy		SetLaH		Speedup	
	Grd	Slv	Grd	Slv	Grd	Total
15	0.14	0.05	0.04	0.00	3.5x	4.8x
30	1.24	0.80	0.41	0.09	3.0x	4.1x
45	6.42	1.54	2.06	0.87	3.1x	2.7x
60	22.21	12.84	6.65	0.95	3.3x	4.6x
75	58.76	23.08	16.85	1.32	3.5x	4.5x

**academia\_3** (recursive, UNSAT)  
17 definitions, 22 constraints

n	Alloy		SetLaH		Speedup	
	Grd	Slv	Grd	Slv	Grd	Total
25	0.38	0.08	0.05	0.00	7.6x	9.2x
50	2.67	0.49	0.38	0.00	7.0x	8.3x
75	10.14	1.52	1.43	0.00	7.1x	8.2x
100	25.08	1.52	3.45	0.00	7.3x	7.7x
125	49.17	7.46	8.05	0.00	6.1x	7.0x

**academia\_2** (non-recursive, SAT)  
8 definitions, 9 constraints

n	Alloy		SetLaH		Speedup	
	Grd	Slv	Grd	Slv	Grd	Total
100	0.72	0.22	0.12	0.00	6.0x	7.8x
200	4.09	0.97	0.53	0.02	7.7x	9.2x
300	11.40	2.29	1.13	0.03	10.1x	11.8x
400	24.79	12.62	2.24	0.05	11.1x	16.3x
500	44.85	96.45	3.59	0.07	12.5x	38.6x

**birthday** (non-recursive, UNSAT)  
4 definitions, 4 constraints

n	Alloy		SetLaH		Speedup	
	Grd	Slv	Grd	Slv	Grd	Total
5	0.01	0.00	0.01	0.00	±1.0x	±1.0x
10	0.06	0.03	0.03	0.10	2.0x	-1.4x
15	0.19	0.06	0.12	1.94	1.6x	-8.2x
20	0.29	0.08	0.44	15.28	-1.5x	-42.5x
25	0.61	0.14	1.31	81.01	-2.1x	-109.8x