

Table 1: Original models

Model	Horn	Antihorn	2Sat	Clauses	Variables
2.6.28.6-icse11	25946	174730	21297	343944	6847
2.6.32-2var	165798	189521	72483	268223	60060
2.6.33.3-2var	173141	191807	75942	273799	62470
axTLS	1531	1142	557	2155	684
buildroot	35013	28185	18351	45603	14898
busybox-1.18.0	14231	10150	6644	17836	6796
coreboot	38928	32273	21533	47091	12268
ecos-icse11	2913	2308	2305	3146	1244
embtoolkit	52462	158218	32157	180511	23515
fiasco	4437	2763	2012	5228	1632
freebsd-icse11	5132	52723	1635	62183	1346
freetz	78627	53764	35535	102705	31012
toybox	923	691	477	1020	544
uClinux-config	21901	20065	9721	31637	11254
uClinux	2468	1852	1234	2468	1850

Preprocess

1. Equivalent variable substitution
2. Subsumption
3. Self-subsuming resolution
4. Variable elimination
5. Asymmetric branching
6. “Rcheck”

Table 2: Preprocessed models

Model	Horn	Antihorn	2Sat	Clauses	Variables
2.6.28.6-icse11	314	23	314	335	30
2.6.32-2var	0	0	0	0	0
2.6.33.3-2var	0	0	0	0	0
axTLS	0	0	0	0	0
buildroot	0	0	0	0	0
busybox-1.18.0	0	0	0	0	0
coreboot	129	113	89	153	53
ecos-icse11	0	0	0	0	0
embtoolkit	55	15	12	67	20
fiasco	383	27	383	384	30
freebsd-icse11	0	0	0	0	0
freetz	0	0	0	0	0
toybox	0	0	0	0	0
uClinux-config	0	0	0	0	0
uClinux	0	0	0	0	0