Boolector at the SMTCOMP'14

Aina Niemetz, Mathias Preiner, Armin Biere

Major changes since SMTCOMP'12:

- new lemmas on demand (LOD) engine: array operations and arrays as lambda terms and uninterpreted functions
- don't care reasoning to speed up LOD
 - Boolector (justification)
 - Boolector (dual propagation)

Further improvements:

- support for SMT-LIB v2 macros (define-fun)
- new model generation algorithm (fixes performance drop of older versions)
- internal model validation for satisfiable instances
- cloning support (cf. cloning in Lingeling)
- API call tracing (record/replay sequences that trigger erroneous behavior)
- model-based testing
- fixes in both rewrite engine and the incremental API
- fixed and reenabled the previously disabled unconstrained optimization