

CVC4 1.5

Clark Barrett (Stanford), Martin Brain (Oxford), Guy Katz (Stanford), Tim King (Google), Paul Meng (U Iowa), Aina Niemetz (Stanford), Mathias Preiner (Stanford), Andres Nötzli (Stanford), Andrew Reynolds (U Iowa), Cesare Tinelli (U Iowa)

SMT 2017, July 22, 2017

CVC4 1.5: Recent Developments

- A new theory of sets with cardinality and relations.
- A new theory of strings.
- A new theory of separation logic constraints.
- Support for many new heuristics for reasoning with quantifiers, including finite model finding.
- Improved heuristics for reasoning about non-linear arithmetic.
- Support for proofs for uninterpreted functions, arrays, bitvectors, and their combinations.
- Support for unsat cores.
- Native support for syntax-guided synthesis (sygus).

We aim for CVC4 to be a versatile research platform for SMT and are open to collaborators and contributors.

For more information:

- Contact one of the project leaders:
 - Clark Barrett barrett@cs.stanford.edu
 - Cesare Tinelli cesare-tinelli@uiowa.edu
- Visit the website: cvc4.stanford.edu