Bruno Dutertre, Aman Goel, Stéphane Graham-Lengrand, Thomas Hader,
Ahmed Irfan, Dejan Jovanović, Ian A. Mason
https://vices.csl.sri.com/

nttps://yices.csi.sii.c

Two solvers: CDCL(T) & MCSAT Support:

- Quantifier-free: non-linear arithmetic (MCSAT only), linear arithmetic, bitvectors, uninterpreted functions, and arrays.
- With quantifiers: uninterpreted functions only, via E-graph matching and model-based instantiation.

Bitvectors: Yices 2/CDCL(T) uses bitblasting.

For QF_BV, it can optionally use third-party backend SAT solvers:

CaDiCaL, CryptoMiniSat, and Kissat (the SMT-comp version uses Kissat for single-query and model validation tracks).

Functionalities: incremental and push/pop modes, unsat cores, model minimization and implicants, Model-Based Over-approximations, Model-Based Under-approximations, Craig Interpolants.



- Improved MCSAT Array solver.
- New theory-guided variable-selection heuristic in MCSat, in addition to its existing VSIDS variable-selection heuristic.