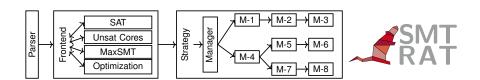
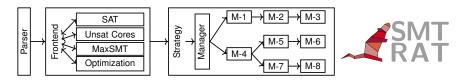


SMT-RAT 21.05





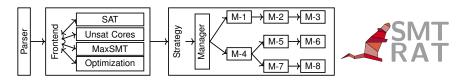
SMT-RAT 21.05



- SMT-RAT strategy
 - ► SAT solver: minisat adapted for less-lazy SMT solving
 - non-linear arithmetic: subtropical satisfiability, interval constraint propagation, virtual substitution and cylindrical algebraic decomposition
 - ▶ non-linear integer arithmetic: bit-blasting and branch&bound



SMT-RAT 21.05



SMT-RAT strategy

- ► SAT solver: minisat adapted for less-lazy SMT solving
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- non-linear integer arithmetic: bit-blasting and branch&bound

SMT-RAT-MCSAT strategy

- ► MCSAT module based on minisat
- ► Fourier-Motzkin, interval constraint propagation, virtual substitution, one-cell construction, NLSAT-style model based projections
- novel variant of the one-cell construction (not published yet)