

Z3-Noodler - An Automata based String Solver

Theory and Practice of SMT Solving

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- ▶ String theory solver replaced by *Noodler*
 - ▶ *Stabilization-based procedure*
 - ▶ Heavy usage of *non deterministic automata*

Handling automata and regular expressions

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Handling automata and regular expressions

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 - ▶ Union, concatenation, intersection, etc
- ▶ Very efficient and optimized

Architecture

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- ▶ Parser, rewriter and LIA solver

Architecture

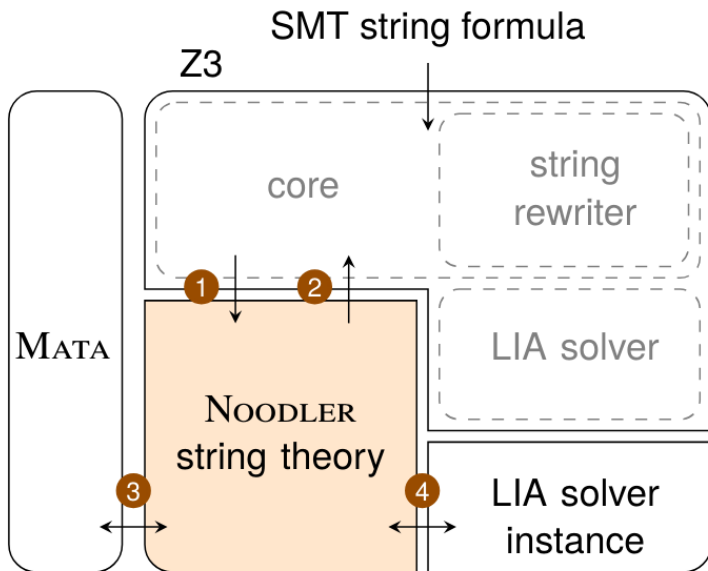


Figure 1: arch

End