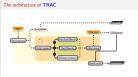


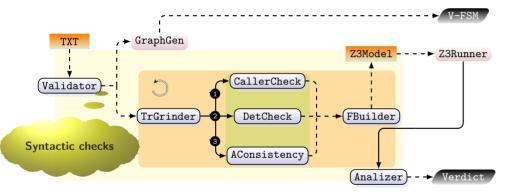
Automata for smart contracts...and more

☐ The architecture of **TRAC**



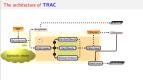
the architecture of **TRAC** is compartmentalised into two principal modules: parsing and visualisation (yellow box) and

TRAC's core (orange box). The latter module implements well-formedness check (green box). Solid arrows represent calls between components while dashed arrows data IO.



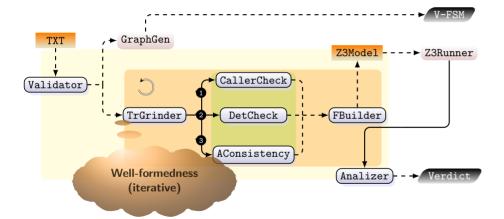
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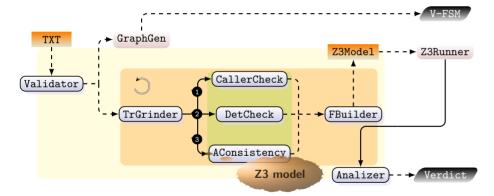


basic syntactic checks on a DSL representation of DAFSMs and transforming the input in a format that simplifies the analysis of the following phases:

- passed to GraphGen for visual representation of DAFSMs (V-FSM output)
- passed to the TrGrinder component (orange box) for well-formedness checking.

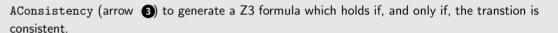


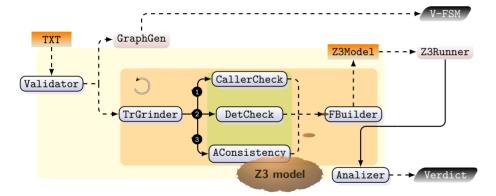




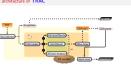
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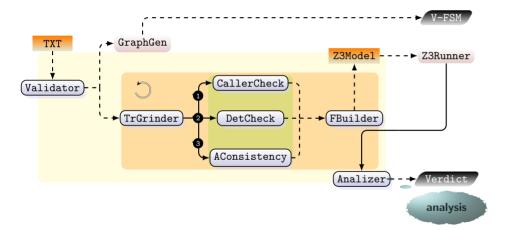




The architecture of TRAC Automata for smart contracts...and more The architecture of **TRAC**



computes the z3 f.la equivalent to the conjunction of the outputs which is then passed to a Z3 engine to check its satisfiability



Automata for smart contracts...and more

The architecture of TRAC

Finally, the Analizer component that diagnoses the output of Z3 and produces a Verdict which reports (if any) the violations of well-formedness of the DAFSM in input.

