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Abstract

Abstracting the behaviour of a specification is a key technique for dealing with the complexity of such tasks as reachability analysis and test generation. We adapted classical data-flow analysis techniques to abstract variables in SDL processes and addressed the problem of finding conservative state abstractions. Prototype tools have been developed to implement those techniques and applied to simple applications from the field of telecommunications.

Key words: communicating extended state machines, SDL, fault models, data-flow, abstraction.