

# Requirements for a Model Checker for Matlab/Simulink

In the context of the diploma thesis *Requirements for a Model Checker for Matlab/Simulink* (Anforderungen an einen Modelchecker für Matlab/Simulink) a model suite has been developed that enables the evaluation of model checkers for Matlab/Simulink in short time.

## Motivation

After having set the requirements, the question now is how we can check whether and which model checkers meet them. Two points are important:

1. The evaluation must be performed in short time without the need of reading the documentation extensively.
2. The results of several such evaluations must be comparable.

## Current Scope

Currently the suite contains

- models for checking the syntactical abilities of model checkers,
- models for measuring the efficiency of model checkers,
- a simulink library containing the models' basic elements and
- a process model, that guides the user during the evaluation of a model checker.

## Further Information

- If you are interested in the suite, please contact Jacob Palczynski. The suite will be available for download on this page soon.
- A short introduction to the suite can be found in: Jacob Palczynski, Bastian Schlich, and Stefan Kowalewski. Eine Evaluationssuite zur schnellen Bewertung von Matlab/Simulink-Modelcheckern. 4. Workshop Automotive Software Engineering. In Informatik 2006: Informatik für Menschen, Band 1. Volume P-93 of Lecture Notes in Informatics (LNI). 2006.

## Contact

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