DiVinE

0.8.0

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Contents

Chapter 1

DiVinE Toolset

This tutorial contains description of tools contained in the DiVinE package.

1.1 Installation

ToolSet is the part of the package downloadable on the web site of a project.

1. tar –gunzip -xf divine-version.tar.gz

2. cd divine

3. ./configure

4. make

5. make install

1.2 Common Tool Properties

Currently all tools are purely command line programs with no interaction (except for the simulator of models). For better user comfort we are currently developing a graphical interface, which is still not in a stable version and thus it is not publicly available.

Most of these tools (especially model checking algorithms) support following flags:

- h: help which describes the usege and flags of the given tool in detail

- v: verbose

- q: quiet

- r: print a report (statistics about resources usage)

- t: print a trail (counterexample in a case of finding it during model checking)

- L: print a log file in a standard format during a computation

- H: set a size of hash table

Input models of systems can be written in DVE or Promela modeling languages. All tools support both formats or print a message, that they cannot run with a model in a given modeling language.

1.3   Description of tools

- Model Manipulation Tools - model manipulation tools (translation and syntax check)

- Basic Tools - basic tools for preprocessing, syntax checking and simulation of models

- Auxiliary Tools - auxiliary executables contained in a distribution, usually not needed to use by the most of users

- Model Checking Tools - tools for model checking of models