1.2.1 The Model-Checking Process

In applying model checking to a design the following dierent phases can be distinguished:

- Modeling phase
 - model the system under consideration using the model description language of the model checker at hand
 - as a rst sanity check and quick assessment of the model perform some simulations
 - formalize the property to be checked using the property specication language.
- Running phase: run the model checker to check the validity of the property in the system model
- Analysis phase:
 - property satised? → check next property (if any);
 - property violated? \rightarrow
 - 1. analyze generated counterexample by simulation;
 - 2. rene the model, design, or property;
 - 3. repeat the entire procedure.
 - out of memory? \rightarrow try to reduce the model and try again.