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? $\rightarrow checknextproperty(ifany); propertyviolated?$
 - generated counterexample by simulation;
 - rene the model, design, or property;
 - repeat the entire procedure.
- out of memory? try to reduce the model and try again.