1   The Model-Checking Process[1]

In applying model checking to a design the following di?erent phases can be distinguished:

- *Modeling* phase:

    - model the system under consideration using the model description language of the model checker at hand;

    - as a first sanity check and quick assessment of the model perform some simulations;

    - formalize the property to be checked using the property speci?cation language.

- *Running* phase: run the model checker to check the validity of the property in the system model.

- *Analysis* phase:

    - property satisfied? $\rightarrow$ check next property (if any);

    - property violated? $\rightarrow$

      (A). analyze generated counterexample by simulation;
      (B). refine the model, design, or property;
      (C). repeat the entire procedure[2].

    - out of memory? $\rightarrow$ try to reduce the model and try again.

---

[1]ktosss.

[2]Tekst stpoki jedne.