

VIPer01 - PSPICE Model

The provided PSPICE model is useable in the OrCAD system environment of Cadence Design Systems and will not work in other simulation platforms. We recommend to use OrCAD v.16.6 or higher to avoid convergence problems and speed up the simulation. The zip package contains two files:

- “VIPER01.OLB”, the symbol to place in the schematic.
- “VIPER01.LIB”, the library containing the real implementation of the model.

In order to use the model, create a new OrCAD project, add the “VIPER01.OLB” library to your project and select the part you want to simulate. Figure 1 shows the list of available parts of VIPer01.

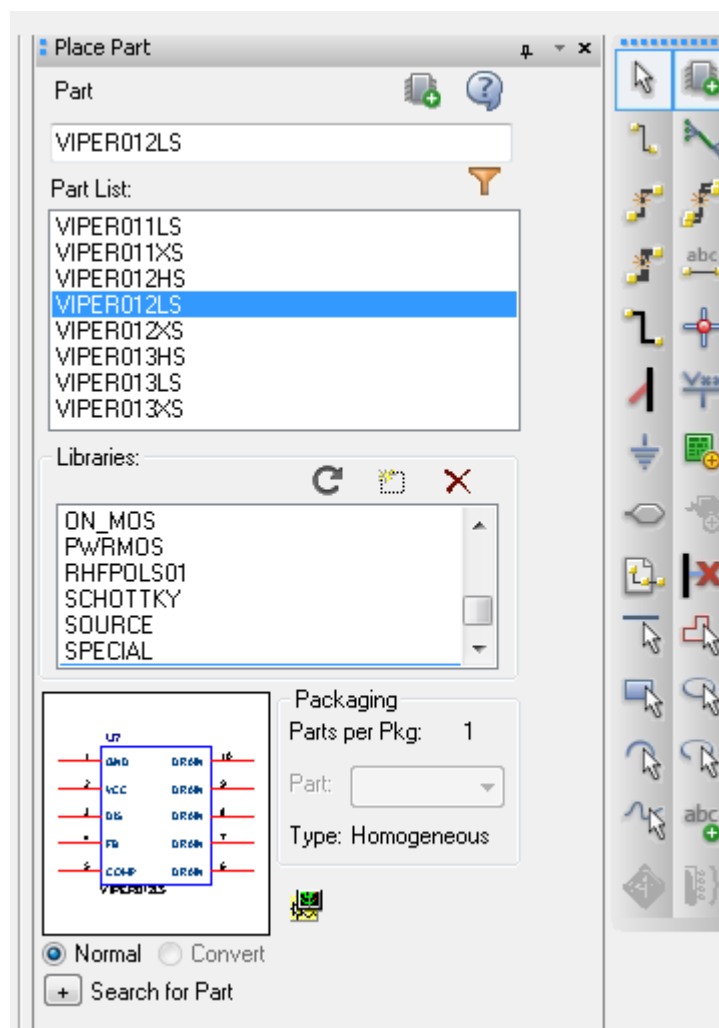


Figure 1 -ViPer01 models. Available parts.

Then add the library reference to your simulation profile, as shown in Figure 2.

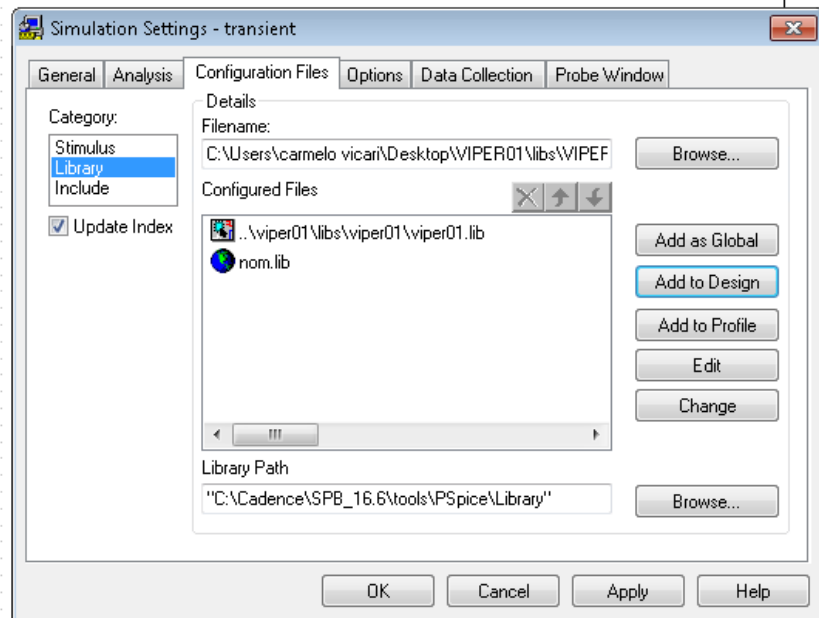
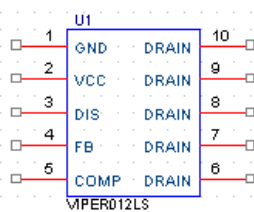


Figure 2 ViPer01 library added to the simulation profile

NOTE. Before starting the simulation, make sure that the option “Initialize all flip-flops” is set to “0”.

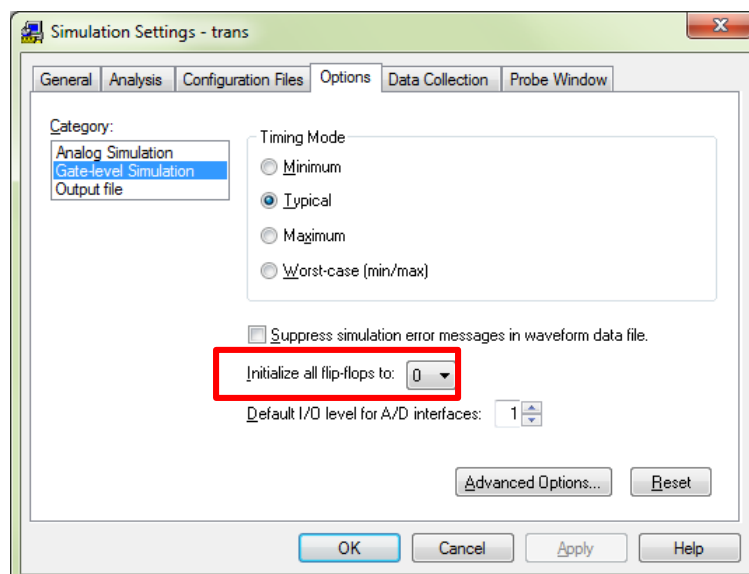


Figure 3 – “Initialize all flip-flops” option

In case of convergence problems, check the option “AutoConverge”.

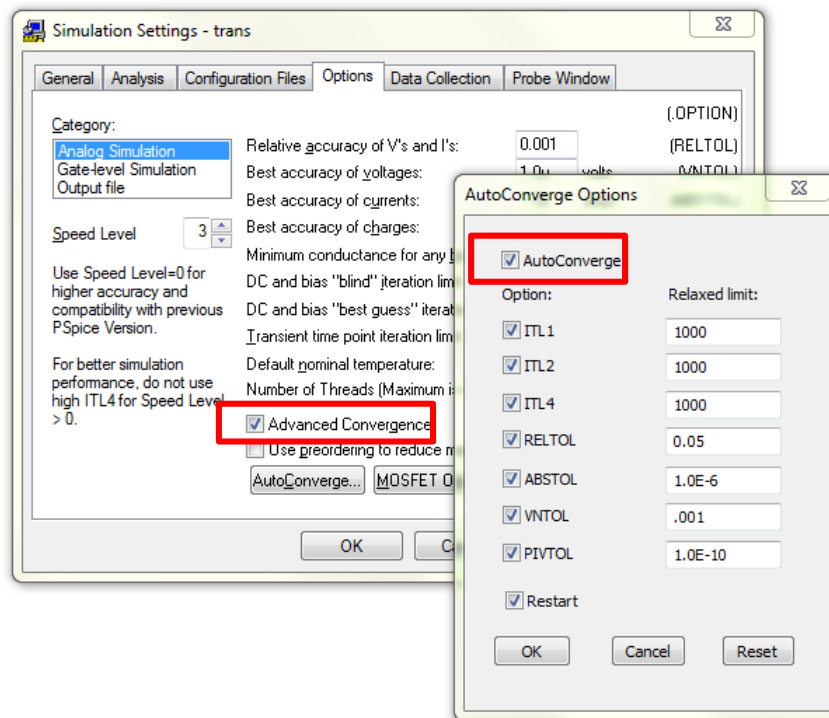


Figure 4 – “Advanced Convergence” option