1200V GaN Verilog-A Model Instructions

02/06/2024
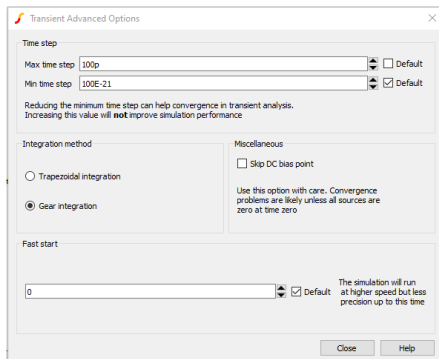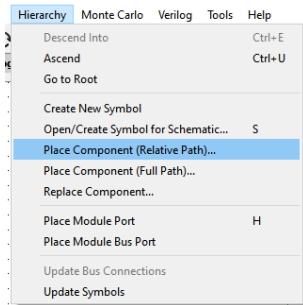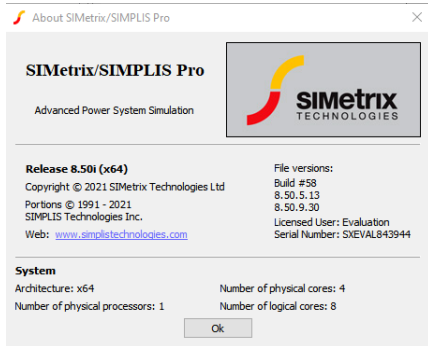
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Important model information

- Please read "Notice.txt" for important information about model accuracy and copyright

Model Setup Documentation

- SIMetrix version recommendation
  - SIMetrix Pro v8.5
- Place following 4 files into the folder where you want to build and simulate the FQS based circuit
  - TP120H058WS_model.v.1.0.sxcmp
  - spice3_GaNfet5mohm.lib.txt
  - asmhemt_fast.va
- Insert an instance of the 1200V switch into the circuit by going to "Hierarchy →Place Component (Relative Path)". Then select "TP120H058WS_model.v.1.0.sxcmp"
  - The 1200V symbol will be inserted
- Simulation conditions
  - Go to "Simulator" →"Choose Analysis" →"Advanced Options" →Select "Gear integration" for best convergence results