

PSpice 17.2 Lite - Limitations

PSpice 17.2 Lite is a great tool to allow you to experience the features of the fully package. However, it has the following limitations in relation to design size and complexity that you should be familiar with:

PSpice A/D (Lite):

- Circuit simulation limited to circuits with:
 - no more than 75 nodes and 20 transistors
 - no sub-circuit limits but no more than 65 digital primitive devices
 - no more than 10 transmission lines (ideal or non-ideal) with not more than four pair-wise coupled lines.
 - no more than 250 nodes in a digital circuit.
 - non-ideal Tline limited to 4.
- Does not support:
 - Level 3 of Core model (Tabrizi), MOSFET BSIM 3.2, or MOSFET BSIM 4 models.
 - DMI models.
 - IBIS imports.
 - Device model interfaces (DMIs).
 - integration with Matlab via SLPS option.
- Limits:
 - device characterisation and parameterised part creation using the Model Editor limited to diodes.
- Includes:
 - all libraries, including parameterised libraries.
 - no limit to stimulus generation using Stimulus Editor.
 - Sample model library named eval.lib (containing analogue and digital parts) and evalp.lib (containing parameterized parts).

Advanced Analysis (Lite):

- Smoke Analysis:
 - Only runs on diodes, resistors, transistors, and capacitors.
- Optimizer:
 - Only Random and MLSQ engines can be used.
 - Values of up to two component parameters can be optimised.
 - A maximum of one measurement specification and one curve fit specification supported.
 - Only one error calculation method supported for optimising the curve-fit specification.
- Parametric Plotter:
 - Can sweep the values of only two design and/or model parameters.
 - Only Linear sweep in supported.
 - A maximum of 10 sweeps allowed.
 - Can evaluate the influence of changing parameter values only on one measurement expression or a trace
 - Display Plot is not available.
- Monte Carlo:
 - Only one measurement specification is allowed.
 - A maximum of three devices with tolerance are supported.
 - Maximum of 20 Monte Carlo runs are supported.
- Sensitivity:
 - Only one measurement specification is allowed.
 - A maximum of three devices with tolerance are supported.
 - A maximum of 20 runs only are supported.
- Encrypted parameterised models cannot be simulated.
- The Optimizer Random Engine can make a maximum of 5 runs only.