

## Virtuoso Spectre Circuit Simulator User Guide

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Started with Spectre To specify single  
components within a circuit, you must  
provide the following information: A  
unique component name for the  
component The names of nodes to which  
the component is connected The master  
name of the component (identifies the type  
of component)

Spectre User Simulation Guide  
Spectre Circuit Simulator User Guide  
January 2004 3 Product Version 5.0  
Preface ...

Spectre Circuit Simulator User Guide -  
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The Virtuoso® Spectre® circuit simulator is a modern circuit simulator that uses direct methods to simulate analog and digital circuits at the differential equation level. The basic capabilities of the Spectre circuit simulator are similar in function and application to SPICE, but the Spectre circuit simulator is not descended from SPICE.

## Virtuoso Spectre Circuit Simulator Reference

For more information, refer to the section on Monte Carlo Analysis in Chapter 6 of the Cadence Virtuoso Spectre Circuit Simulator User Guide, Product Version 5.1.41. The statistics Statement. The Spectre statistics control statement enables you to specify a batch-to-batch (process) and per-instance (mismatch) variations for netlist parameters.

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## Process Variation and Mismatch - Keysight

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## Virtuoso Spectre Circuit Simulator User Guide

As the industry's leading solution for accurate analog simulation, the Cadence® Spectre® Simulation Platform contains multiple solvers to allow a designer to move easily and seamlessly between circuit-, block-, and system-level simulation tasks. The foundation of the platform is a unified set of technologies

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shared by all of the engines—the parser, device models, Verilog-A behavioral ...

Spectre Simulation Platform - Cadence  
The Cadence® Spectre® Accelerated Parallel Simulator provides scalable performance and capacity—at full Spectre Circuit Simulator accuracy—for complex analog, RF, and mixed-signal blocks and subsystems with tens of thousands of devices.. The Spectre Accelerated Parallel Simulator performs advanced SPICE-accurate simulation with faster convergence, scalable performance, and higher capacity.

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Language Reference Manual. Available  
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XL Reference

Cadence AMS Simulator User Guide -  
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The Virtuoso® Spectre® circuit simulator is a modern circuit simulator that uses direct methods to simulate analog and digital circuits at the differential equation level. The basic capabilities of the Spectre circuit simulator are similar in function and application to SPICE, but the Spectre circuit simulator is not descended from SPICE.

Product Version 11.1 September 2011 - A  
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To use Spectre's process and mismatch  
model in RFDE, you need to include

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**User Guide**  
Spectre's process and mismatch model in a model file and add it to the model library from Virtuoso Analog Design Environment. For more information on Process and Mismatch, refer to the section on Monte Carlo Analysis in Chapter 6 of the Cadence Virtuoso Spectre Circuit Simulator User Guide , Product Version 5.1.41.

## Performing Monte Carlo Analysis and Yield Analysis in RF ...

(For more detail on the transient noise parameters refer to the Virtuoso Spectre Circuit Simulator User Guide). `noiseseed` Seed for the random number generator (used by the simulator to vary the noise sources internally). Specifying the same seed allows you to reproduce a previous experiment. The default value is 1.

`how_do_i_simulate_transient_noise` [Cad

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Wiki for Analog IC ...

Follow the steps in circuit simulation with Spectre to simulate the circuit. Before running the simulation, go to Setup->Environment... in Virtuoso Analog Design Environment window, and add 'extracted' in front of 'schematic' in Switch View List Box. After running the simulation, we will get the simulation result as the figure below.

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Virtuoso® Spectre® Circuit Simulator;  
Virtuoso® UltraSim Full-chip Simulator;  
Virtuoso® Spectre® RF Simulation  
Option for 38500; Virtuoso® RelXpert;  
Virtuoso® Analog HSPICE Interface  
Option ; AMS Designer with Flexible  
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