

Monte Carlo+ Package

Variation-Aware Custom IC Design
Fast - Accurate - High Capacity

solido
DESIGN AUTOMATION

Included Apps

Run Monte Carlo+
Verify High-Sigma Design
Find Sensitive Devices
Sweep Design Variables
Run Extracted Corners

Statistical variation is modeled by foundries to enable designers to design for variation. Designers typically analyze statistical variation using Monte Carlo analysis, which can take a long time to perform with adequate accuracy, and is not particularly effective at diagnosing or fixing variation problems. Variation Designer's **Monte Carlo+ Package** reduces Monte Carlo runtimes, pinpoints causes of variation problems, and provides insight to solve variation problems quickly.

Key Benefits

Fast

- 2-10x faster Monte Carlo runtimes
- 100-10,000x faster 4+ sigma verification

Accurate

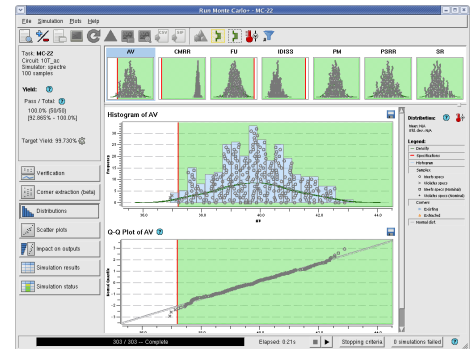
- Confidence intervals on yield
- Accuracy-aware stopping criteria
- Extract statistical corners at target yield
- Accurate environmental and process variable impacts with confidence intervals

High capacity

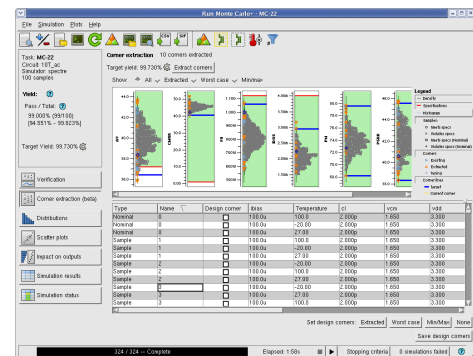
- Low overhead for circuits with 100,000+ devices
- Run up to 100,000 samples in a single run

Unique capabilities

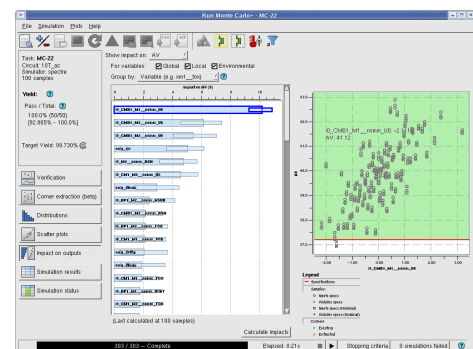
- Statistical corner extraction finds corners that include design-specific global and mismatch process variation at the target sigma
- Accurate impacts analysis reveals causes of problems and identifies the causes directly on the schematic
- Q-Q plots help visualize nuances in tails of distributions



Histograms and Q-Q Plots



Statistical Corner Extraction



Environmental and Process Impacts

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