

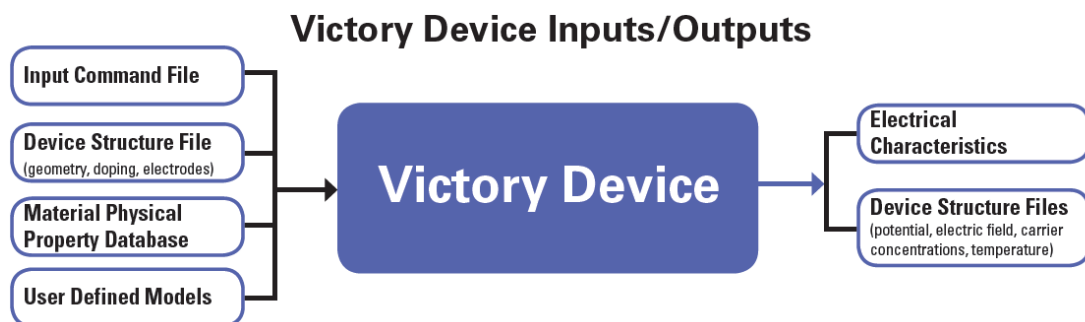


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Along with Victory Process Simulator, Victory Device Simulator provide a complete tools suite for process, sensor and devices simulation

Victory -3D Device Simulator

Victory Device is a general purpose 3D device simulator. A tetrahedral meshing engine is used for fast and accurate simulation of complex 3D geometries. Victory Device performs DC, AC, and transient analysis for silicon, binary, ternary, and quaternary material-based devices.



- Tetrahedral mesh for accurate 3D geometry representation
- Voronoi discretization for conformal Delaunay meshes
- Advanced physical models with user-customizable material database for silicon and compound materials
- Stress-dependent mobility and bandgap models
- Customizable physical models using the C-Interpreter or dynamically linked libraries
- DC, AC, and transient analysis
- Drift-diffusion and energy balance transport equations
- Self-consistent simulation of self-heating effects including heat generation, heat flow, lattice heating, heat sinks, and temperature-dependent material parameters
- Methods to simulate the electrochemical reaction and transport of an arbitrary number of chemical species
- Highly customizable chemistry models for simulation of performance degradation, atomic species transport, and complex charge-capture mechanisms
- Advanced multi-threaded numerical solver library

- **Atlas-compatible**
- **Silvaco's strong encryption is available to protect valuable customer and third party intellectual property**

[Read more about Victory 3D Process Simulation](#)

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