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Continuous Time Modeling vs Event Driven (Discrete Event)

- Continuous time modeling is what is done in Spice ٠ Models analog systems
- Event driven or Discrete Event modeling is what is done in Verilog, VHDL, SystemC
- Holy Grail is a standard simulation environment that marries continuous time + discrete time simulation -- known as mixed signal modeling
- Extensions have been proposed to all languages to support mixed continuous time + discrete event simulation
 - Prototype implementations of continuous time simulation in VHDL,
 - Verilog has been done (anaVHDL, VHDL-AMS, Verilog-AMS)
 - EDA Standard committees exist for VHDL-AMS, Verilog-AMS
- Other proprietry languages/simulators exist (Spectre from Cadence) Cadence has a product called AMS Designer that supports Verilog-AMS

BR

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