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Introduction to verilog

- Complexity
- Tedious and Time consuming
- Hand drawn Schematics, breadboards and wires
- More and more components on a chip,
- Improvements have advanced the **VLSI** (very large scale integration) field





You



Computer-aided design

- **(CAD)** tools have advanced significantly during the past decade, and nowadays digital design is performed using a variety of software tools.
- Prototypes or even final designs can be created without discrete components and interconnection wires.

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- **SSI (small-scale integration),**
- **MSI (medium-scale integration),**
- **LSI (large-scale integration)**
- **All depends on the density of integration.**
- **SSI referred to ICs with 1 to 20 gates**
- **MSI referred to ICs with 20 to 200 gates**
- **LSI referred to devices with 200 to a few thousand gates**
- **Building blocks such as adders, multiplexers, decoders, registers, and counters are available as MSI standard parts.**
- **Term VLSI was coined, devices with 10,000 gates were called VLSI chips. The boundaries between the different categories are fuzzy today. Many modern microprocessors contain more than 100 million transistors. Compared to what was referred to as VLSI in its initial days**
- **Modern integration capability could be described as ULSI (ultra large scale integration). Despite the changes in integration ability and the fuzzy definition, the term VLSI remains popular.**



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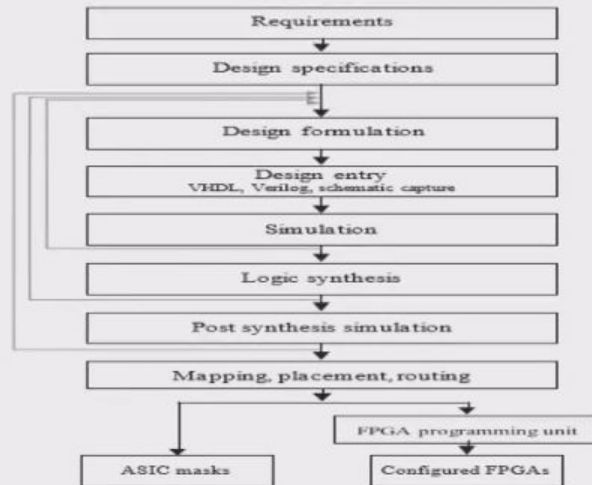
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Design Flow in Modern Digital System Design



You





Limitations of Verilog for Verification

Dr. Shasanka Sekhar Rout has left the meeting.

- Weak randomization
- Limited constructs for handling large data for complex design
- Automating verification process is difficult
- Lack of standard methodology
- Achieving higher level abstractions is difficult



Industry that offer ASIC Design and Verification Jobs

This meeting is being recorded.

Test & Measurement Companies



EDA Companies



Product Companies

