



# Microprocessor Design Using Verilog HDL

*Monte Dalrymple*

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## **Microprocessor Design Using Verilog HDL** Monte Dalrymple

Monte Dalrymple's *Microprocessor Design Using Verilog HDL* is a practical guide to processor design in the real world. If you have the right tools, designing a microprocessor shouldn't be complicated. The Verilog hardware description language (HDL) is one such tool. It can enable you to depict, simulate, and synthesize an electronic design, and thus increase your productivity by reducing the overall workload associated with a given project. *Microprocessor Design Using Verilog HDL* presents the Verilog HDL in an easily digestible fashion and serves as a thorough introduction about reducing a computer architecture and instruction set to practice. You're led through the microprocessor design process from start to finish, and essential topics ranging from writing in Verilog to debugging and testing are laid bare. The book details the following, and more: - Verilog HDL Review: data types, bit widths/labeling, operations, statements, and design hierarchy - Verilog Coding Style: files vs. modules, indentation, and design organization - Design Work: instruction set architecture, external bus interface, and machine cycle - Microarchitecture: design spreadsheet and essential worksheets (e.g., Operation, Instruction Code, and Next State) - Writing in Verilog: choosing encoding, assigning states in a state machine, and files (e.g., defines.v, hierarchy.v, machine.v) - Debugging, Verification, and Testing: debugging requirements, verification requirements, testing requirements, and the test bench - Post Simulation: enhancements and reduction to practice

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