

EE514: VLSI Lab III

1. Introduction to Verilog Design and Small Design Implementations to understand Verilog and EDA tools required for the lab.
2. Design of 8-Bit Adder, 32-Bit Adder and Multiplier
3. Single-Cycle MIPS Datapath
4. Single-Cycle MIPS Control
5. Single-Cycle MIPS Branches
6. 5-Stage MIPS Processor (Pipelining)
7. Adding a Simple Branch Predictor to MIPS Processor
8. Implementing Full Forwarding to MIPS Processor

Lab Project