

Lab 5 Specifications

Lab-specific Specifications

Proficiency

Excellence

General Specifications

Proficiency

General Schematic Specifications

- All pin names labeled
- All pin numbers labeled
- Crossing wires clearly identified as junction or unconnected
- Neat layout (e.g., clear organization and spacing)
- All parts labeled with part number
- All component values present

Block Diagram

- Block diagram present with one block per SystemVerilog module
- Each block includes all input and output signals

HDL & Code Specifications

General Formatting

- Descriptive filename (e.g., lab2_jb.sv)
- Descriptive variable names
- Neat formatting (e.g., standard indentation, consistent formatting for variable names (kebab-case/snake_case/camelCase/PascalCase))
- Descriptive and clear function/module names

Comments

- Comments to indicate the purpose of each function/module

Lab Writeup/Summary

- Brief (e.g., 3-5 sentence) description of the main goals of the assignment and what was done.
- Explanation of design approach. How did you go about designing and implementing the design?
- Explanation of testing approach. How did you verify your design was behaving as expected?
- Statement of whether the design meets all the requirements. If not, list the shortcomings.
- Number of hours spent working on the lab are included.
- Writeup contains minimal spelling or grammar issues and any errors do not significantly detract from clarity of the writeup.
- (Optional) List comments or suggestions on what was particularly good about the assignment or what you think needs to change in future versions.

Excellence

General Schematic Specifications

- Standard symbols used for all components where applicable
- Signals “flow” from left to right where possible (e.g., inputs on left hand side, outputs on right hand side)
- Title block with author name, title, and date

HDL & Code Specifications

General Formatting

- Name, email, and date at the top of every file
- Comment at the top of each source code file to describe what is in it
- Clear and organized hierarchy (e.g., delineation between top level modules and submodules)

Testbenches

- Testbenches written for each individual module to demonstrate proper operation
- Testbench output included in the report

Lab Writeup/Summary

- Writeup is free of spelling and grammar issues

Comments

Add specific notes here about the assignment.