CSU22022 Computer Architecture I

Prof. Michael Manzke

Assignment: Project Milestone Register File

Checklist

30th October 2024

Version 2.0

All files must be submitted to Blackboard as individual files, no zip files. Submit only entities that are working and are fully tested. You must follow the entity order on the checklist. You cannot skip entities.

The entities must be programmed and tested in the following order. Please confirm by ticking all the boxes next the items that all required files are available on Blackboard and that the entity is fully working. You must print this checklist, tick the boxes, sign it, and submit it to Blackboard.

1	RF_Mux3_1Bit_XXXXXXXX.vhd	✓
	RF_Mux3_1Bit_XXXXXXXX_TB.vhd	✓
	RF_Mux3_1Bit_XXXXXXXX_SchematicXX.pdf	✓
	RF_Mux3_1Bit_XXXXXXXX_TDXX.png	✓
	RF_Mux3_1Bit_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

2	RF_Mux3_32Bit_XXXXXXXX.vhd	✓
	RF_Mux3_32Bit_XXXXXXXX_TB.vhd	✓
	RF_Mux3_32Bit_XXXXXXXX_SchematicXX.pdf	✓
	RF_Mux3_32Bit_XXXXXXXX_TDXX.png	✓
	RF_Mux3_32Bit_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

3	RF_Mux16_1Bit_XXXXXXXX.vhd	✓
	RF_Mux16_1Bit_XXXXXXXX_TB.vhd	✓
	RF_Mux16_1Bit_XXXXXXXX_SchematicXX.pdf	✓
	RF_Mux16_1Bit_XXXXXXXX_TDXX.png	✓
	RF_Mux16_1Bit_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

4	RF_Mux16_32Bit_XXXXXXXX.vhd	✓
	RF_Mux16_32Bit_XXXXXXXX_TB.vhd	✓
	RF_Mux16_32Bit_XXXXXXXX_SchematicXX.pdf	✓
	RF_Mux16_32Bit_XXXXXXXX_TDXX.png	✓
	RF_Mux16_32Bit_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

5	RF_Mux32_1Bit_XXXXXXXX.vhd	✓
	RF_Mux32_1Bit_XXXXXXXX_TB.vhd	✓
	RF_Mux32_1Bit_XXXXXXXX_SchematicXX.pdf	✓
	RF_Mux32_1Bit_XXXXXXXX_TDXX.png	✓
	RF_Mux32_1Bit_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

6	RF_Mux32_32Bit_XXXXXXXX.vhd	✓
	RF_Mux32_32Bit_XXXXXXXX_TB.vhd	✓
	RF_Mux32_32Bit_XXXXXXXX_SchematicXX.pdf	✓
	RF_Mux32_32Bit_XXXXXXXX_TDXX.png	✓
	RF_Mux32_32Bit_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

7	RF_DFlipFlop_XXXXXXXX.vhd	✓
	RF_DFlipFlop_XXXXXXXX_TB.vhd	✓
	RF_DFlipFlop_XXXXXXXX_SchematicXX.pdf	✓
	RF_DFlipFlop_XXXXXXXX_TDXX.png	✓
	RF_DFlipFlop_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

8	RF_Register32Bit_XXXXXXXX.vhd	✓
	RF_Register32Bit_XXXXXXXX_TB.vhd	✓
	RF_Register32Bit_XXXXXXXX_SchematicXX.pdf	✓
	RF_Register32Bit_XXXXXXXX_TDXX.png	✓
	RF_Register32Bit_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

9	RF_DestReg_Decoder_XXXXXXXX.vhd	✓
	RF_DestReg_Decoder_XXXXXXXX_TB.vhd	✓
	RF_DestReg_Decoder_XXXXXXXX_SchematicXX.pdf	✓
	RF_DestReg_Decoder_XXXXXXXX_TDXX.png	✓
	RF_DestReg_Decoder_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

10	RF_TempDestReg_Decoder_XXXXXXXX.vhd	✓
	RF_TempDestReg_Decoder_XXXXXXXX_TB.vhd	✓
	RF_TempDestReg_Decoder_XXXXXXXX_SchematicXX.pdf	✓
	RF_TempDestReg_Decoder_XXXXXXXX_TDXX.png	✓
	RF_TempDestReg_Decoder_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

11	RF_RegisterFile_32_15_XXXXXXXX.vhd	✓
	RF_RegisterFile_32_15_XXXXXXXX_TB.vhd	✓
	RF_RegisterFile_32_15_XXXXXXXX_SchematicXX.pdf	✓
	RF_RegisterFile_32_15_XXXXXXXX_TDXX.png	✓
	RF_RegisterFile_32_15_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

12	RF_Test_RegisterFile_32_15_XXXXXXXX.vhd	✓
	RF_Test_RegisterFile_32_15_XXXXXXXX_TB.vhd	✓
	RF_Test_RegisterFile_32_15_XXXXXXXX_SchematicXX.pdf	✓
	RF_Test_RegisterFile_32_15_XXXXXXXX_TDXX.png	✓
	RF_Test_RegisterFile_32_15_XXXXXXXX_Doc.tex (can be any file format)	✓
	Is working	✓

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08/11/2024 Matthew Poole

Date Signature