CSU22022 Computer Architecture I

Prof. Michael Manzke

Assignment: Milestone Function Unit

Checklist

14th October 2024

Version 1.0

All files must be submitted to Blackboard as individual files, no zipfiles. With one exception: the "Processor_XXXXXXXXX.srcs" must be a zip-file. 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 to 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 with your milestone assignment to Blackboard.

All files must be submitted in the checklist order:

DP_FullAdder_XXXXXXXX.vhd

DP_FullAdder_XXXXXXXX_TB.vhd

DP_FullAdder_XXXXXXXX_SchematicXX.pdf

 ${\sf DP_FullAdder_XXXXXXXX_TDXX.png}$

DP_FullAdder_XXXXXXXX_Doc. txt (can be any file format)

 $DP_Ripple Carry Adder 32 Bit_XXXXXXXX.vhd$

 $DP_Ripple Carry Adder 32 Bit_XXXXXXXX_TB.vhd$

 $DP_Ripple Carry Adder 32 Bit_XXXXXXXX_Schematic XX.pdf$

DP_RippleCarryAdder32Bit_XXXXXXXX_TDXX.png

 $\label{lem:decomposition} DP_Ripple Carry Adder 32 Bit_XXXXXXXX_Doc.txt \ (can \ be \ any \ file \ format)$

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	My submission complies with the Instructions for the Blackboard Submission of the Assignment"	
	CSU22022 Milestone Function Unit 2024-2025 Instruction V1.0.pdf)	
	2024-2025 Instruction V1.0.pdf)	
		Yes
	DP_FullAdder_XXXXXXXX.vhd	Yes
	DP_FullAdder_XXXXXXXX _TB.vhd	Yes
1	DP_FullAdder_XXXXXXXX _SchematicXX.pdf	Yes
()	DP_FullAdder_XXXXXXXX _TDXX.png	Yes
	DP_FullAdder_XXXXXXXX _Doc.txt (can be any file format)	Yes
	Is working	Yes
	T	T
	DP_RippleCarryAdder32Bit_XXXXXXXX.vhd	Yes
	DP_RippleCarryAdder32Bit_XXXXXXXX_TB.vhd	Yes
	DP_RippleCarryAdder32Bit_XXXXXXXX_SchematicXX.pdf	Yes
	DP_RippleCarryAdder32Bit_XXXXXXXX_TDXX.png	Yes
UZ	DP_RippleCarryAdder32Bit_XXXXXXXX_Doc.txt (can be any file format)	Yes
	Is working	Yes
	DP_SingleBit_B_Logic_XXXXXXXX.vhd	Yes
	DP_SingleBit_B_Logic_XXXXXXXX_TB.vhd	Yes
$\mathbf{\Omega}$	DP_SingleBit_B_Logic_XXXXXXXX_SchematicXX.pdf	Yes
1113	DP_SingleBit_B_Logic_XXXXXXXX_TDXX.png	Yes
	DP_SingleBit_B_Logic_XXXXXXXX_Doc.txt (can be any file format)	Yes
	Is working	Yes

	DP_32Bit_B_Logic_XXXXXXXX.vhd	Yes
	DP_32Bit_B_Logic_XXXXXXXX_TB.vhd	Yes
\cap Λ	DP_32Bit_B_Logic_XXXXXXXX_SchematicXX.pdf	Yes
04	DP_32Bit_B_Logic_XXXXXXXX_TDXX.png	Yes
	DP_32Bit_B_Logic_XXXXXXXX_Doc.txt (can be any file format)	Yes
	Is working	Yes
	DP_SingleBit_LogicCircuit_XXXXXXXX.vhd	Yes
	DP_SingleBit_LogicCircuit_XXXXXXXX_TB.vhd	Yes
	DP_SingleBit_LogicCircuit_XXXXXXXX_SchematicXX.pdf	Yes
	DP_SingleBit_LogicCircuit_XXXXXXX _TDXX.png	Yes
05	DP_SingleBit_LogicCircuit_XXXXXXXX_Doc.txt (can be any file format)	Yes
	Is working	Yes
	15 115 11115	103
	DP_32Bit_LogicCircuit_XXXXXXXX.vhd	Yes
	DP_32Bit_LogicCircuit _XXXXXXXX TB.vhd	Yes
		Yes
06	DP_32Bit_LogicCircuit _XXXXXXXX_TDXX.png	Yes
UU	DP_32Bit_LogicCircuit _XXXXXXXX _Doc.txt (can be any file format)	Yes
	Is working	Yes
	15 WOTKING	1.03
	CPU_Mux2_32Bit_XXXXXXXX.vhd	Yes
	CPU_Mux2_32Bit _XXXXXXXX_TB.vhd	Yes
07	CPU_Mux2_32Bit _XXXXXXXX_SchematicXX.pdf	Yes
() /	CPU_Mux2_32Bit _XXXXXXXX_TDXX.png	Yes
U	CPU_Mux2_32Bit _XXXXXXXX_Doc.txt (can be any file format)	Yes
	Is working	Yes
	DP_ArithmeticLogicUnit _XXXXXXXX.vhd	Yes
	DP_ArithmeticLogicUnit _XXXXXXXXX_TB.vhd	Yes
	DP_ArithmeticLogicUnit _XXXXXXXXX_SchematicXX.pdf	Yes
\cap	DP_ArithmeticLogicUnit _XXXXXXXX_TDXX.png	Yes
80	DP_ArithmeticLogicUnit _XXXXXXXX_Doc.txt (can be any file	
	format)	Yes
	Is working	Yes

		1
	DP_Mux3_1Bit_XXXXXXXX.vhd	Yes
	DP_Mux3_1Bit_XXXXXXXX_TB.vhd	Yes
\cap	DP_Mux3_1Bit_XXXXXXXX_SchematicXX.pdf	Yes
09	DP_Mux3_1Bit_XXXXXXXX_TDXX.png	Yes
	DP_Mux3_1Bit_XXXXXXXX_Doc.txt (can be any file format)	Yes
	Is working	Yes
	DP_ShifterCFlagMux2_1Bit_XXXXXXXX.vhd	Yes
	DP_ShifterCFlagMux2_1Bit_XXXXXXXX _TB.vhd	Yes
_	DP_ShifterCFlagMux2_1Bit_XXXXXXXX _SchematicXX. pdf	Yes
10	DP_ShifterCFlagMux2_1Bit _XXXXXXXX _TDXX.png	Yes
10	DP_ShifterCFlagMux2_1Bit _XXXXXXXX _Doc.txt (can be any file format)	Yes
	Is working	Yes
	DP_Shifter_XXXXXXXX.vhd	Yes
	DP_Shifter_XXXXXXXX_TB.vhd	Yes
11	DP_Shifter_XXXXXXXX _SchematicXX. pdf	Yes
	DP_Shifter_XXXXXXXX _TDXX.png	Yes
	DP_Shifter_XXXXXXXX _Doc.txt (can be any file format)	Yes
	Is working	Yes
	DP_CFlagMux2_1Bit_XXXXXXXX.vhd	Yes
	DP_CFlagMux2_1Bit_XXXXXXXXX _TB.vhd	Yes
17	DP_CFlagMux2_1Bit_XXXXXXXXX _SchematicXX. pdf	Yes
	DP_CFlagMux2_1Bit_XXXXXXXXX _TDXX.png	Yes
4	DP_CFlagMux2_1Bit_XXXXXXXXX _Doc.txt (can be any file format)	Yes
	Is working	Yes
•		1
	DP_ZeroDetection_XXXXXXXX.vhd	Yes
	DP_ZeroDetection_XXXXXXXX _TB.vhd	Yes
17	DP_ZeroDetection_XXXXXXXX _SchematicXX.pdf	Yes
13	DP_ZeroDetection_XXXXXXXX _TDXX.png	Yes
	DP_ZeroDetection_XXXXXXXX _Doc.txt (can be any file format)	Yes
	Is working	Yes
i .		1

14	DP_FunctionalUnit_XXXXXXXX.vhd	Yes
	DP_FunctionalUnit_XXXXXXXX _TB.vhd	Yes
	DP_FunctionalUnit_XXXXXXXX _SchematicXX.pdf	Yes
	DP_FunctionalUnit_XXXXXXXXX _TDXX.png	Yes
	DP_FunctionalUnit_XXXXXXXX _Doc.txt (can be any file format)	Yes
	Is working	Yes

Processor_XXXXXXXX.srcs (including all subdirectories and files)	Yes
Processor_XXXXXXXX.xpr	Yes

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Student Name: Kyara McWilliam

Student ID: 23375183

Signature

25.10.24 Date