Rose-Hulman Institute of Technology
Computer Science and Software Engineering
Prof. Archana Chidanandan

Term Project Milestone 4 Evaluation (Components Specification) Team __1-1_
Points: ___23__/30

Evaluation Criteria Categories	Specific Criteria	Comments	Score
Consistency with higher level specifications	❑ Components have interfaces (inputs, outputs, and control signals) that are consistent with the datapath specification, including signal widths. ❑ Components produce behaviors that are consistent with the assembly language and register transfer language levels of the design specification. ❑ Components implement their behaviors within the timing constraints imposed by the RTL specification.		(3/3)
Self-consistency	❑ Example: Specification of 1-bit ALU is consistent with specification of 16-bit ALU. ❑ Example: Specification of bi-directional variable-displacement shifter is consistent with specifications of unidirectional variable-displacement shifters.		(3/3)
Demonstration of design principles 1. Simplicity favors regularity 2. Smaller is faster 3. Good design demands good compromises 4. Make the common case fast	❑ Component specifications are as simple as reasonably possible (e.g. variable-displacement shifters are composed of multiple fixed-displacement shifters). ❑ Component specifications are as small as reasonably possible (e.g. variable-displacement shifters use as few fixed-displacement shifters as possible). ❑ Conflicts between the preceding criteria are resolved by considering overall performance (e.g. design of variable displacement shifters considers how often shifts of various displacements actually are used)	Xilinx component specification was not given.	(0/3)
Documentation (see below) ❑ Organization ❑ Completeness	❑ All design decisions necessary to implement Xilinx model are documented (components may be implemented by core generated	Your memo is fine. I have no serious complaints with it. Your journal is fine.	(12/16)

❑ Conciseness ❑ Grammar and style	objects or built-in symbols, which include gates and some higher-level entities) ❑ Clear English specifications as necessary ❑ Component tests	Your design document is ok, but make sure every signal is specified a "natural" state. No ambiguity is allowed. -1 Tests are not listed, nor results of these tests. -3	

Required Documents

- Memo
  - Objective assessment of design and status
- Design Documentation
  - Demonstration of conceptual understanding
  - Highlights interesting features
- Design Process Journal
  - Alternatives considered
  - Tradeoffs
  - Decisions
- Website