

Term Project Milestone 4 Evaluation (Components Specification) Team 2-5
Points: 15 /30

Evaluation Criteria Categories	Specific Criteria	Comments	Score
Consistency with higher level specifications	<ul style="list-style-type: none"> <input type="checkbox"/> Components have interfaces (inputs, outputs, and control signals) that are consistent with the datapath specification, including signal widths. <input type="checkbox"/> Components produce behaviors that are consistent with the assembly language and register transfer language levels of the design specification. <input type="checkbox"/> Components implement their behaviors within the timing constraints imposed by the RTL specification. 		(3)
Self-consistency	<ul style="list-style-type: none"> <input type="checkbox"/> Example: Specification of 1-bit ALU is consistent with specification of 16-bit ALU. <input type="checkbox"/> Example: Specification of bi-directional variable-displacement shifter is consistent with specifications of unidirectional variable-displacement shifters. 		(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	<ul style="list-style-type: none"> <input type="checkbox"/> Component specifications are as simple as reasonably possible (e.g. variable-displacement shifters are composed of multiple fixed-displacement shifters). <input type="checkbox"/> Component specifications are as small as reasonably possible (e.g. variable-displacement shifters use as few fixed-displacement shifters as possible). <input type="checkbox"/> Conflicts between the preceding criteria are resolved by considering overall performance (e.g. design of variable displacement shifters) 	I don't see this anywhere in your documentation. -3	(0/3)

	considers how often shifts of various displacements actually are used)		
Documentation (see below) <input type="checkbox"/> Organization <input type="checkbox"/> Completeness <input type="checkbox"/> Conciseness <input type="checkbox"/> Grammar and style	<input type="checkbox"/> All design decisions necessary to implement Xilinx model are documented (components may be implemented by core generated objects or built-in symbols, which include gates and some higher-level entities) <input type="checkbox"/> Clear English specifications as necessary <input type="checkbox"/> Component tests	Your journal is seriously lacking in its development. It provides little to no detail about anything which was done for M3 or M4. I don't know what your tests are or how they went. -4 Your memo is missing any mention of testing and how it went. It seems like a mere update of success, and isn't even clear on that. -2 Your design document is seriously lacking. It makes no mention of tests or anything and has no mention of M4 at all. It is also missing a table of contents. -6 The four points is having something in the components.xls.	(4/16)

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