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

Term Project Milestone 2 Evaluation Team #_1-4___ Points: 37/ 40

Evaluation Criteria Categories	Specific Criteria	Comments	Score
Consistency with higher level specifications	❑ Every instruction allowed by the machine language (ML) specification has a unique register transfer language (RTL) representation ❑ The sequences of register transfers specified by each RTL description correctly implement the functions described in the assembly language (AL) specification ❑ Every component referenced in the RTL descriptions is determined ❑ For each component, input, output, and control signals that are sufficient to implement the RTL descriptions are identified, including the size of each signal	Every instruction has an RTL equivalent. The RTL accomplishes what it is supposed to. The components are well specified with input, output, and control. Size of control is not given. -1	(5/6)
Self-consistency	❑ The effect of each individual RTL statement is unambiguous ❑ No state element is assigned more than one value in any given clock cycle	The RTL statements are clear and state elements are used correctly. Very good job on this one.	(6/6)
Demonstration of design principles 1. Simplicity favors regularity 2. Smaller is faster 3. Good design demands good compromises 4. Make the common case fast	❑ Significant delays are balanced between cycles, so that the clock cycle can be as short as reasonably possible ❑ Each instruction uses as few clock cycles as possible without extending the clock cycle ❑ Each component is used efficiently at each clock cycle, and components are not duplicated unnecessarily	Delays are balanced to keep the clock cycle normal. The instruction length is minimized. The components are used well.	(6/6)
Documentation (see below) ❑ Organization	❑ Clear English specifications o The behavior of each	Your journal is still in bullet style. I would prefer it be in paragraph form. Paragraphs appear more professional and seem to hold more information	(14/16)

❑ Completeness ❑ Conciseness ❑ Grammar and style	component is described unambiguously o Documentation, as listed in the following page, demonstrates all the design issues discussed above	about why decisions were made. -1 Aside from this problem it was good. The memo is good. It is much less choppy than last time, and is quite descriptive, while fitting on one page. I like it. The design document is missing the table of contents at the top. Please include one. -1 Otherwise it is a very good document. I like the table set-up so all information is grouped together in a relevant manner.	
Milestone 1 updates	❑ List of instructions described. ❑ List of special purpose and general purpose registers. ❑ Rules for machine language translation. ❑ Sample programs in assembly and machine language.	M1 is good. I see nothing missing from it. All registers are defined and AL and ML are given. Very nice.	(6/6)

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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