

Term Project Milestone 2 Evaluation Team # 1-5 Points: 38/40

Evaluation Criteria Categories	Specific Criteria	Comments	Score
Consistency with higher level specifications	<ul style="list-style-type: none"> <input type="checkbox"/> Every instruction allowed by the machine language (ML) specification has a unique register transfer language (RTL) representation <input type="checkbox"/> The sequences of register transfers specified by each RTL description correctly implement the functions described in the assembly language (AL) specification <input type="checkbox"/> Every component referenced in the RTL descriptions is determined <input type="checkbox"/> For each component, input, output, and control signals that are sufficient to implement the RTL descriptions are identified, including the size of each signal 	<p>Every instruction is specified in RTL.</p> <p>The RTL seems to accomplish the command it is meant to.</p> <p>The components are determined and signals are specified. The length of control signals is not specified after the third or fourth. -1</p>	(5/6)
Self-consistency	<ul style="list-style-type: none"> <input type="checkbox"/> The effect of each individual RTL statement is unambiguous <input type="checkbox"/> No state element is assigned more than one value in any given clock cycle 	The RTL is clear and state variables are handled properly.	(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	<ul style="list-style-type: none"> <input type="checkbox"/> Significant delays are balanced between cycles, so that the clock cycle can be as short as reasonably possible <input type="checkbox"/> Each instruction uses as few clock cycles as possible without extending the clock cycle <input type="checkbox"/> Each component is used efficiently at each clock cycle, and components are not duplicated unnecessarily 	<p>The delays seem balanced and the instructions seem minimized.</p> <p>The components are used well.</p>	(6/6)
Documentation (see below) <input type="checkbox"/> Organization <input type="checkbox"/> Completeness <input type="checkbox"/> Conciseness <input type="checkbox"/> Grammar and style	<ul style="list-style-type: none"> <input type="checkbox"/> Clear English specifications <ul style="list-style-type: none"> o The behavior of each component is described unambiguously o Documentation, as listed in the following page, demonstrates all the design issues discussed above 	<p>The journal is in good shape. I see no problems currently. The memo is also well written.</p> <p>The design document needs a table of contents. It is necessary to make the document easier to traverse. -1 Please include one.</p>	(15/16)

Milestone 1 updates	<ul style="list-style-type: none"><input type="checkbox"/> List of instructions described.<input type="checkbox"/> List of special purpose and general purpose registers.<input type="checkbox"/> Rules for machine language translation.<input type="checkbox"/> Sample programs in assembly and machine language.	Registers and language are specified. Translation information given. Good job.	(6/6)
---------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------	-------

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