

Term Project Milestone 2 Evaluation
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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 		(3)
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 		(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"/> 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 		(3)
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 		(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