1 Administrivia

Announcements

Last assignment due in one week.

Assignment

From Last Time

Multiplier design.

Outline

1. Definition of instruction set.

2. Layout of instruction formats and consideration of design trade-offs.

Coming Up

Continued CPU16 design.
2 Instruction Set Definition

Our starting point:

1. add, sub.
2. and, or, nor.
3. slt, beq
4. lw, sw
5. j

3 Instruction Format Definition

Starting from the standard three formats (R-, I-, and J-format), what alternatives do we have and what are the trade-offs?