Administrivia

• As we head into the home stretch, I've been trying to focus on important "learning outcomes", and there really are only two that haven't been fully addressed:

Operation of the single-cycle implementation (most recent videos, reading quiz, homework).

A little about pipelining and exceptions (two videos, a reading quiz, a homework).

• That doesn't sound very good, *but* remember that there's no final in this course, and I'm cautiously optimistic that I can get my part of this done by sometime Friday. And is this really so different in terms of last-minute stress from a course with a final?

Slide 1



1



Course Recap — Topics
A little about performance. (It's not simple!)
MIPS assembler language; translating C to MIPS assembler language.
Compiling, assembling, and linking.
Binary representation of instructions.
Binary representation of data (integers, ASCII, floating-point numbers); basics of computer arithmetic.
(Continued ...)

Slide 4



- Gate-level logic design.
- Design of a processor ALU, datapath, control; a little about pipelining.
- Other schools spread this material over two or even three courses (though they presumably cover more in all). So, we have done a lot?

Slide 5



 $\mathbf{3}$



Slide 7