

Slide 1

Administrivia

- I'm not having a good semester (obviously). Part of it's circumstances, but maybe I could have coped better. Many of you may have your own troubles. I'll try to do better!
- Many recorded lectures to view. Some people appear to be watching them, others not (or not yet). Posting schedule has admittedly been erratic. I'm hoping to do better.
- The plan going forward is to have lectures at class time. For the next week, "flipped" format so people can catch up with recordings. Maybe switch this long-term since I do like not having to present the same material twice (two sections). But only if I can make recordings available ahead of time!
- Office hours via Gather — I hope! I haven't tried it. If I can't make it work today I'll set up a one-time Zoom meeting and mail you all info. Okay?

Slide 2

More Administrivia

- Due dates for assignments posted this weekend are a little aggressive. I'm thinking check in with near the end of this week and ask how people are doing with them?
- Still working on sharing grade information with you, making progress but it will be another day or so. The plan is to do this via shared Google Drive folders, one for each of you, shared only with you.
- Next set of assignments: Another reading quiz on more of Chapter 2, programming assignment (!).

Slide 3

2/22 Lecture

- Introduction: Architecture as specification, allows for more than one implementation; design goals for architecture.
- Arithmetic operations.
- Registers.
- Load/store instructions.
- Representing integers in binary.
- Questions?

Slide 4

3/01 Lecture

- Hexadecimal.
- Representing instructions in binary — “formats”, arithmetic, load/store.
- Program structure.
- SPIM demo.
- Pseudoinstructions.
- Sign extension.
- Machine language to assembly.
- Questions?

Slide 5

3/03 Lecture

- Shift instructions.
- Logical instructions (bitwise and, bitwise or, etc.)
- Branch instructions.
- Translating C conditional execution and loops to MIPS assembly.
- “Set on less than” instruction.
- Questions?

Slide 6

Assignments

- Questions about assignments?

More About SPIM?

- Another SPIM demo?

Slide 7

Minute Essay

- Are you able (and willing) to spend a little extra time on this course for a week or so to help us catch up? (It's AOK to say no — you have other courses!)
- How do you think you're doing with this course? given that you have no feedback yet, yes, but have you felt like you understood what you were turning in?

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