Lecture 4 Learning outcomes

Upon successful completion of this module, you will be able to:

- Represent integer numbers as 32-bit binary
- Classify basic operations of computers
- Express MIPS instruction set
- Convert MIPS instructions to machine language (i.e. binary representation)
- Describe MIPS addressing modes

Lecture 4 Activities

Lecture 4 study is split into 2-day work.

Day 1:
Session I:
    View Lecture 3a: Introduction to ISA
    Study zyBook Ch 2.1-2.3
Session II:
    View Lecture 3b: Number Representation
    Study zyBook Ch 2.4
Session III:
    View Lecture 3c: MIPS Instructions
    Study zyBook Ch 2.5

Day 2:
Session I:
    Review Lecture 3c: MIPS Instructions
    Study zyBook Ch. 2.5-2.7 (continue from Day 1 session III).
Session II:
    View Lecture 3d: Addressing Modes
    Study zyBook Ch. 2.10 (focus on addressing modes; this is not for credit but highly recommended)
    Work on Homework #2
Session III:
    Take Test #1

Assignment Checklist: -- due Su 6/13
    Z4: zyBook 2.1 – 2.7
    H2: Homework #2
    Take Test 1 between 6/10 – 6/13