

16.317: Microprocessor Systems Design I

Fall 2012

Lecture 25: Key Questions

November 14, 2012

1. Describe how to write PIC code to implement operations that deal with two registers (e.g. moving the contents of one register to another; adding two registers).
2. Describe how to implement conditional jumps.

3. Describe how to implement shift and rotate operations.

4. Translate these x86 operations to PIC code. Assume that there are registers defined for each x86 register (e.g. AL, AH, BL, BH, etc.)

- OR AL, BL

- SUB BL, AL

- JNZ label

- JL label

- SAR AL, 1

- ROL AL, 5