

16.317: Microprocessor Systems Design I

Fall 2015

Lecture 23: Key Questions

October 28, 2015

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 simple rotate operations and multi-bit shift/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

- JB label (B = below = unsigned less than)

- ROL AL, 5