

EECE.3170: Microprocessor Systems Design I

Fall 2016

Lecture 24: Key Questions

November 7, 2016

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`