16.317: Microprocessor Systems Design I

Spring 2014

Lecture 26: Key Questions
April 9, 2014

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