## 16.317: Microprocessor Systems Design I

Fall 2013

Lecture 30: Key Questions November 22, 2013

1.			Translate these x86 operations to PIC code. Assume that there are registers or each x86 register (e.g. AL, AH, BL, BH, etc.) AL, BL
	•	SUB	BL, AL
	•	JNZ	label
	•	JL	label
	•	SAR	AL, 1

• ROL AL, 5

M. Geiger Lecture 29: Key Questions

2. Describe how to work with multi-byte data.

- 3. Translate these x86 operations to PIC code. Assume that there are registers defined for each x86 register (e.g. AL, AH, BL, BH, etc.). 16-bit values (e.g., AX) must be dealt with as individual bytes
- MOVZX AX, BL

• MOVSX AX, BL

• INC AX

• SUB BX, AX

• RCL AX, 5