

16.317: Microprocessor Systems Design I

Spring 2014

Lecture 24: Key Questions
April 4, 2014

1. Describe the PIC control flow instructions.
2. Describe the instructions used for conditional execution on the PIC 16F1829.

3. **Example:** Show the values of all changed registers after each of the following sequences. What high-level operation does each perform?

a. movf a, W
 sublw 0xA
 btfsc STATUS, Z
 goto L1
 incf b, W
 goto L2
L1
 decf b, W
L2
 movwf a

b. movf NUM2, W
 subwf NUM1, W
 btfss STATUS, C
 goto BL
 movf NUM1, W
 goto Done
BL
 movf NUM2, W
Done
 movwf MIN