16.216: ECE Application Programming

Fall 2011

Lecture 7: Key Questions September 19, 2011

- Example 1: Evaluate each of the following expressions if you have the following unsigned ints: A = 7, B = 10, and C = 0xFFFFFFFF
 A & B
- b. A | ~B
- c.A ^ C
- d. A && ~C

- e. A << 4
- f.B >> 5
- g. A | (B << 2)

- 2. Example 2: Given an unsigned int, n, and a number, b, how would you:
- a. Clear all bits of n?

b. Clear the lower 16 bits of n (mask out lower bits)?

c. Flip all bits of n?

d. Flip bit b of n?

e. Set bit b of n (i.e., make sure bit b is 1)?

f. Clear bit b of n (i.e., make sure bit b is 0)?