16.216: ECE Application Programming

Fall 2015

Lecture 28: Key Questions November 13, 2015

1. Describe how to represent decimal values in binary (base 2) and hexadecimal (base 16) and how to convert between those bases.

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2. Describe the C bitwise operators.

3. Explain C bit shift operators and their uses.

- 4. Example: Evaluate each of the following expressions if you have the following unsigned int variables: A = 7, B = 10, and C = 0xFFFFFFFF
- a. A & B
- b. A | ~B

c. A ^ C

- d. A << 4
- e.B >> 5

f. A | (B << 2)