16.317: Microprocessor Systems Design I

Spring 2014

Lecture 8: Key Questions February 10, 2014

- 1. Given the following initial state:
 - AX = 1234H
 - BL = ABH
 - Memory location SUM = 00CDH

Show the results of each step of the following instruction sequence. Be sure to track the carry flag throughout the sequence:

ADD AX, [SUM] ADC BL, 05H NEG BL SUB AX, 12H INC WORD PTR [SUM] 2. Describe the operation of the MUL and IMUL operations.

3. Describe the operation of the DIV and IDIV operations.