

16.317: Microprocessor Systems Design I

Fall 2015

Lecture 8: Key Questions September 21, 2015

1. Describe the operation of the MUL and IMUL operations.

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

3. **Example:** Given $EAX = 00000005h$ and $EBX = 0000FF02h$, what are the results of the following instructions? Assume each instruction starts with the values shown above in EAX and EBX .
- a. `MUL BL`
 - b. `MUL BH`
 - c. `IMUL BH`
 - d. `DIV BL`
 - e. `DIV BH`
 - f. `IDIV BH`