16.317: Microprocessor Systems Design I

Fall 2013

Lecture 5: Key Questions September 13, 2013

	1
1.	Example: Compute the linear address for the specified operand in each of the following instructions. The register contents and variables are as follows:
	 (CS) = 0A00₁₆ (DS) = 0B00₁₆ (ESI) = 00000100₁₆
	 (EDI) = 00000200₁₆ (EBX) = 00000300₁₆
a.	Destination operand in: MOV [DI], AX
b.	Source operand in: MOV DI, [SI]
c.	Destination operand in: MOV [BX+0400H], CX
d.	Destination operand in: MOV [DI+0400H], AH

e. Destination operand in MOV [BX+DI+0400H], AL