16.317: Microprocessor Systems Design ISpring 2014

Lecture 4: Key Questions January 29, 2014

1.	Example: Given the following register values:
	 CS = 0x1000 SS = 0x2000 DS = 0x3000 ES = 0x4000 IP = 0x0100 ESP = 0x0002FF00 EBP = 0x0000F000 ESI = 0x0001000E EBX = 0xABCD1234
Wh	at linear addresses correspond to the following logical addresses?
	• CS:IP
	• SS:SP
	• SS:BP
	- 55.DI
	• DS:SI

• ES:BX

2. Describe the different addressing modes specific to the x86 architecture.