16.317: Microprocessor Systems Design I

Fall 2013

Lecture 8: Key Questions September 20, 2013

1. Show the results of running the following program if DATA_SEG_ADDR = 1200H, assuming the memory contents shown:

DATA_SEG_ADDR:0000			MOV AX, DATA_SEG_ADDR
DATA SEG ADDR:INIT TABLE	11	22	MOV DS,AX
DAIA_GEG_ADDICIMIT_TABLE			MOV SI,[INIT_TABLE]
	33	44	LES DI,[INIT_TABLE+02H]
	55	66	MOV AX,[INIT_TABLE+06H]
	77	88	MOV SS,AX
	99	AA	MOV AX,[INIT_TABLE+08H]
	ВВ	СС	MOV BX,[INIT_TABLE+0AH]
		-	MOV CX,[INIT_TABLE+0CH]
	DD	EE	MOV DX,[INIT_TABLE+0EH]
	FF	16	
	03	17	

2. Describe the x86 flags.

3. Describe the operation of the ADD, ADC, and INC instructions.

4. Describe the operation of the SUB, SBB, DEC, and NEG instructions.