COE 205, Term 092 Computer Organization & Assembly Programming Quiz# 6

Date: Monday, May 17, 2010

Q1. Compare macros and procedures in terms of parameter passing, types of parameters, invocation mechanism, memory space, execution time and assembly time.

Q2. Give an example where it is better to use macros than procedures.

Q3. Given the following macros and macro invocations, determine the assembly code generated by the assembler:

(i) GET_BIG FIRST, SECOND

GI	ET BIG	MACRO	WORD1,	WORI	02	
			LOCA	AL EXI	TI	
			MOV	EAX,	WORD1	
			CMP	EAX,	WORD2	
			JG	EXIT		
			MOV	EAX,	WORD2	
		EXI	IT:			
		ENDM				

(ii) A LABEL DWORD BLOCK 5 BLOCK MACRO N K=1 REPT N DWORD K K=2*K+1 ENDM ENDM

(iii) SAVE_REGS < EAX, EBX, ECX>

SAVE REGS	MACRO	REGS				
	IRP	D, <regs></regs>				
		PUSH D				
ENDM						
ENDM						