

605.204 Computer Organization
Module 4 Assignment

LC		ADDI	\$v0,	\$zero,	0	# Initialize counter	PC
		8	2	0	0		
	001000 00000 00010 0000000000000000						
0	2002 0000						4
	next:	LW	\$t9,	0	(\$a0)	# read the next word	
		35	25	0	4		
	100011 00100 11001 0000000000000000						
4	8C99 0000						8
		ADDI	\$v0,	\$v0,	1	# count the copied word	
		8	2	2	1		
	001000 00010 00010 0000000000000001						
8	2042 0001						12
		SW	\$t9,	0	(\$a1)	# copy / store	
		43	25	0	5		
	101011 00101 11001 0000000000000000						
12	ACB9 0000						16
		ADDI	\$a0,	\$a0,	4	# next source word	
		8	4	4	4		
	001000 00100 00100 0000000000000100						
16	2084 0004						20
		ADDI	\$a1,	\$a1,	4	# next destination	
		8	5	5	4		
	001000 00101 00101 0000000000000100						
20	20A5 0004						24
		BNE	\$t9,	\$zero,	next	# if not zero value	
		5	25	0	-6		
	000101 00000 11001 111111111111010						
24	1419 FFFA						28
		JR	\$ra			# return to caller	
		8	31				
	000000 11111 0000000000000000 001000						
28	03E0 0008						32