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Computer Org

Homework 2

1.

lui $t0, 1

lui $t1, 2

add $s1, $t0, $t1

addi $s1, 8

2.

beginif: slt $t0, $s1, $s0

bne $t0, $zero, elseif

beq $s0, $s2, elseif

sub $s0, $s1, $s2

J endif

Elseif: add $s0, $s1, $s2

Endif: -------

3.

slt $t0, $s1, $s0

bne $t0, $zero, ifpart

beq $s0, $s2, ifpart

J elseif

Ifpart: sub $s0, $s1, $s2

J endif

Elseif add $s0, $s1, $s2

Endif: -------

4.

addi $t0, $zero, $20

for: beq $t0, $s4, endfor

add $t1, $s4, $s4

add $t1, $t1, $t1

lw $t2, 0($t1)

beq $t2, $zero, elseif

add $s0, $s0, $t2

addi $s4, $s4, 1

J for

elseif: sub $s0, $s0, $t2

addi $s4, $s4, 1

J for

Endfor:------

5.

addi $s4, $zero, 19

for: beq $s4, $zero, endfor

lw $t0, $s4($s5)

sub $t1, $s4, $s4

sub $t1, $t1, $t1

add $t0, $zero, $t1

subi $s4, $zero, 1

J for

Endfor: -----