EGC442 Class Notes 2/17/2023

Baback Izadi Division of Engineering Programs bai@engr.newpaltz.edu 1) Given the following initial values, determine the resulting value for the given operation.

$$s_{s1} = 0011\ 0000\ 0000\ 0000\ 0000\ 0000\ 1110\ 1001$$

a. For the following instruction: nori \$t1, \$s1, 0x0000

Only put down the value of the register that changes

Assume \$\$1 has 0x58 and \$\$2 has 0x34. Given this code:

bne \$s3, \$s4, Else add \$s0, \$s1, \$s2 j Exit Else: sub \$s0, \$s1, \$s2 Exit:

g(X = Y) $c = A - B_{j}$ else: $c = A + B_{j}$

 A main program will call a procedure Power for computing x^y. Currently, x is in \$s0, y is in \$s1. How might the program pass the parameter values to Power?

add\$a0, \$s0, \$zeroadd\$a1, \$s1, \$zeroadd\$s0, \$a0, \$zeroadd\$s1, \$a1, \$zeroadd\$v0, \$s0, \$zeroadd\$v1, \$s1, \$zero

2) A first part of a main program calls procedure Power to compute x^y, where x is in \$s0, y is in \$s1. Later, the program is to call Power again, but this time x is in \$s3 and y is in \$s7. How might the program pass the parameter values to Power?

Copy \$s3 to \$a0, and \$s7 to \$a1.

Not possible; x and y must be in \$s0 and \$s1.





done by E C Saz 1em R Exch SP, SP $ssi, \phi(sp)$ push SI \$92, \$92, 2 # Kx 4 $(a_1), (a_1), (a_2), (a_1) = (VCF)$ $(a_1), (a_1), (a_2), (a_1) = (VCF)$ $(a_1), (a_1), (a_2), (a_1) = (VCF)$ $(a_1), (a_2), (a_2), (a_1) = (VCF)$ IW fW \$51,4(\$a1) SW 541 $5E_10(5q_1)$ \$\$1, \$\$(\$P); vestore old \$51 ₹2, \$\$+\$ | 11 | addi

 $\frac{2}{100}$ 5/1 \$az, \$az, 1 511 \$az, \$az, 2 ; \$az+4 ack) 1 *4

> \$51 RP LowAdres

