

## Homework 3

Brian Pham

- addi \$t0, \$s6, 4      # \$t0 = A[1]  
 add \$t1, \$s6, \$0      # \$t1 = A[0]  
 sw \$t1, 0(\$t0)      # \$t1 = &A[0]  
 lw \$t0, 0(\$t0)      # \$t0 = A[1]  
 add \$s0, \$t1, \$t0      # \$s0 = &A[0] + A[1]

&amp;A[0]

-4

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- \$t0 = 0x12345678 => 0001 0010 0011 0100 0101 0110 0111 1000  
 srl \$t1, \$t0, 16      0000 0000 0000 0000 0001 0010 0011 0100  
 andi \$t1, \$t1, -1      0000 0000 0000 0000 0001 0010 0011 0100  
                          1111 1111 1111 1111 1111 1111 1111 1111  
                          0000 0000 0000 0000 0001 0010 0011 0100

- \$t0 = 0xAAAAAAAA => 1010 1010 1010 1010 1010 1010 1010 1010  
 \$t1 = 0x12345678 => 0001 0010 0011 0100 0101 0110 0111 1000  
 sll \$t2, \$t0, 4      1010 1010 1010 1010 1010 1010 1010 0000  
 or \$t2, \$t2, \$t1      1010 1010 1010 1010 1010 1010 1010 0000  
                          0001 0010 0011 0100 0101 0110 0111 1000  
                          1011 1000 1001 1110 1111 1100 1101 1000

4

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