

```
In the direction 3
            SW Instruction
                                       Puts the data 8,
Instruction:101011000000100000000000000000011
                                       then is soved in datumen
                  CONTROL
                                       and it will be what
RegDst:0
            Branch:0
                        XorBNE:0
                                       will out of the data
MemtoRea:1
           ALUOp:010
                        MemWrite:1
                                        mem.
ALUSrc:1
           RegWrite:0
                        Zero:0
                                      # KERNEL:
              BEQ Instruction
KERNEL: Instruction:000100000100000100000000000000000101
                                     this comes from the adder
KERNEL:
               CONTROL
KERNEL: RegDst:0
              Branch:1
                       XorBNF:0
KERNEL: MemtoReg:0
              ALUOp:011
                       MemWrite:0
KERNEL: ALUSTC:0
              RegWrite:0
                       Zero:1
                                  ∂ 00010000010000010000000000000101//Beq Register 1,2,br
10101100000010000000000000000011//sw $t0,3($0) -DONE
                                  2 000101000110000100000000000000101//Bne Register 1,2,bra
10001101000010010010000000000000100//lw $t1,4($t0)
                                  4 00000001000010010100000000100000//R ADD $50 $t0$t1
```

101011010010101000000000000000011//sw \$t2,3(\$t1) -DONE 0000000100001010100000000100100//R AND \$50 \$t0\$t1 1000110000001011111111111111110000//lw \$t3,-16(\$0)-DONE 10101110001011000000000000011010//sw \$t4,26(\$s1) -DONE 00000001000010010100000000100010//R SUB \$50 \$t0\$t1 00000001000010010100000000100101//R OR \$50 \$t0\$t1 # KERNEL: 00000001000010010100000000101010//R SLT \$s0 \$t0\$t1 # KERNEL: R-Instruction AND # KERNEL: Instruction:00000000100001010100000000100100 # KERNEL: CONTROL # KERNEL: RegDst:1 Branch:0 XorBNE:0 # KERNEL: MemtoReg:0 ALUOp:000 MemWrite:1 # KERNEL: ALUSrc:0 RegWrite:1 Zero:0 both vegistors are equal

