

① lb \$t0, -3(\$t2)

|   |            |       |       |                           |
|---|------------|-------|-------|---------------------------|
| ① | 32         | 10    | 8     | -3                        |
| ② | 0x20       | 0x0A  | 0x08  | FFFF 0xFFFFFFFFD          |
| ③ | 10 0000    | 01010 | 01000 | 11 11 11 11 11 11 11 1 01 |
| ④ | 10 0000    | 01010 | 01000 | 11 11 11 11 11 11 11 1 01 |
| ⑤ | 0x8148ffff |       |       |                           |

beq \$t0, \$zero, StrEnd

|   |           |            |                      |                       |
|---|-----------|------------|----------------------|-----------------------|
| ① | 4         | 0          | 8                    | 3                     |
| ② | 0x04      | 0x00       | 0x08                 | 0x000000003           |
| ③ | 000 1 00  | 000000     | 01000                | 0000000000000000 0 11 |
| ④ | 000 1,000 | 00000,1000 | 0000,0000,0000,00 11 |                       |
| ⑤ | 0x1010003 |            |                      |                       |

add \$t9, \$t9, \$t0

|   |            |            |                     |       |       |        |
|---|------------|------------|---------------------|-------|-------|--------|
| ① | 0 0        | 25         | 8                   | 25    | 0     | 32     |
| ② | 0x00       | 0x19       | 0x08                | 0x19  | 0x00  | 0x20   |
| ③ | 0000000    | 11001      | 01000               | 11001 | 00000 | 100000 |
| ④ | 0000,001   | 11001,1000 | 1100,1000,0010,0000 |       |       |        |
| ⑤ | 0x0328c820 |            |                     |       |       |        |

addi \$t2, \$t2, -12

|   |            |       |       |                           |
|---|------------|-------|-------|---------------------------|
| ① | 8          | 10    | 10    | -12                       |
| ② | 0x08       | 0x0A  | 0x0A  | 0xFFFFFFFF4               |
| ③ | 00 1000    | 01010 | 01010 | 11 11 11 11 11 11 1 01 00 |
| ④ | 00 1000    | 01010 | 01010 | 11 11 11 11 11 11 1 01 00 |
| ⑤ | 0x21A4FFF4 |       |       |                           |

j NextCh

|   |  |            |
|---|--|------------|
| ① | 2                                      | 1048640    |
| ② | 0x02                                   | 0x00100040 |
| ③ | 000010100000010000000000000001000000   |            |
| ④ | 00001000100010000000000000000010000000 |            |
| ⑤ | 0x08100040                             |            |

Dec                      decimal  
 0x400100  $\Leftrightarrow$  4,194,560





③ main:

move \$S1, \$S0 =

$i=0$  מזהיר את

addi \$S2, \$t2, 0x01001010 =

מזהיר בתוכנית  
מזהיר שמחכה שני  
מתחיל

loop:

bge \$S1, \$S3, end = בדיוק זה ז' ציון, או שוב ציטוט במערכת

addi \$S4, \$S1, 5 =  $i+5$

sw \$S4, (\$S2) =  $a[i] = i+5$

addi \$S1, \$S1, 1 =  $i++$

addi \$S2, \$S2, 4 = קופץ למיקום הבא במערכת

exit:

move \$S1, \$S0 =  $i=0$

li \$v0, 10

syscall

מפתח:

$\$S1 \Rightarrow i$  מונה

$\$S2 \Rightarrow$  כתובת של המערכת

$\$S3 \Rightarrow$  גודל המערכת

$\$S4 \Rightarrow$  מעתה  $temp$  את המידע

④  
 ① lw \$t0, num1  
 lw \$t1, num2  
 lw \$t2, num3  
 move \$t4, \$t0 # result is num1  
 blt \$t0, \$t1, F1 # if num1 < num2 save result  
 beq \$t0, \$t1, F2 # if num1 = num2  
 addi \$t4, \$t2, 5 # result = num3 + 5  
 j F1  
 F2: ble \$t1, \$t2, F3 # if num2 <= num3  
 or \$t4, \$t0, \$t2 # else result = num1 | num3  
 j end  
 F3: and \$t1, \$t1, \$t2 # result = num2 & num3  
 F1: sw \$t4, result # save result

② lw \$t0, num1  
 lw \$t1, num2  
 lw \$t2, num3  
 loop: bge \$t0, \$t1, end # if num1 >= num2, end loop  
 bge \$t1, \$t2, end # if num2 >= num3, end loop  
 addi \$t0, \$t0, 1 # num1++  
 addi \$t2, \$t2, -1 # num3--  
 j loop  
 end: add \$t4, \$t0, \$t1 # result = num1 + num2  
 add \$t4, \$t4, \$t2 # result = result + num3  
 sw \$t4, result # save result