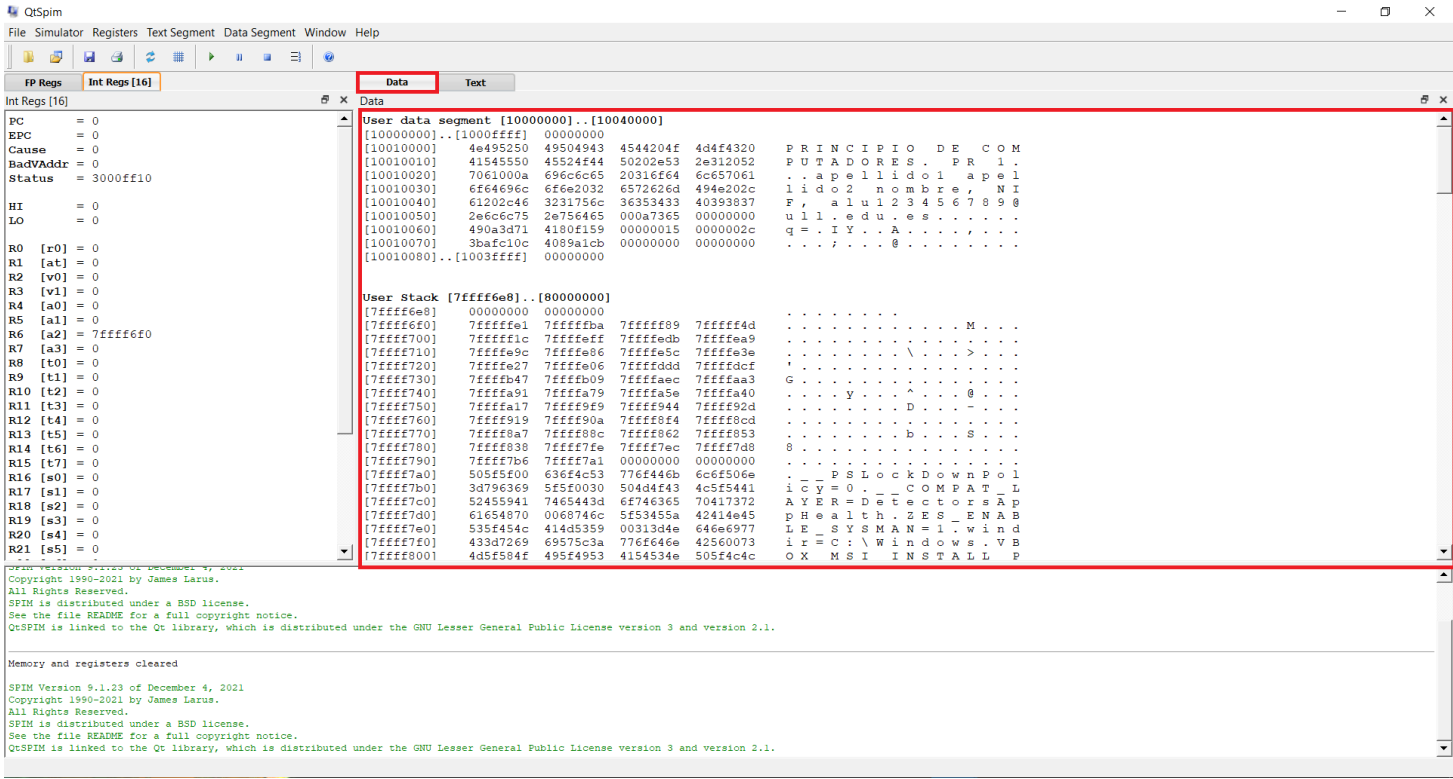


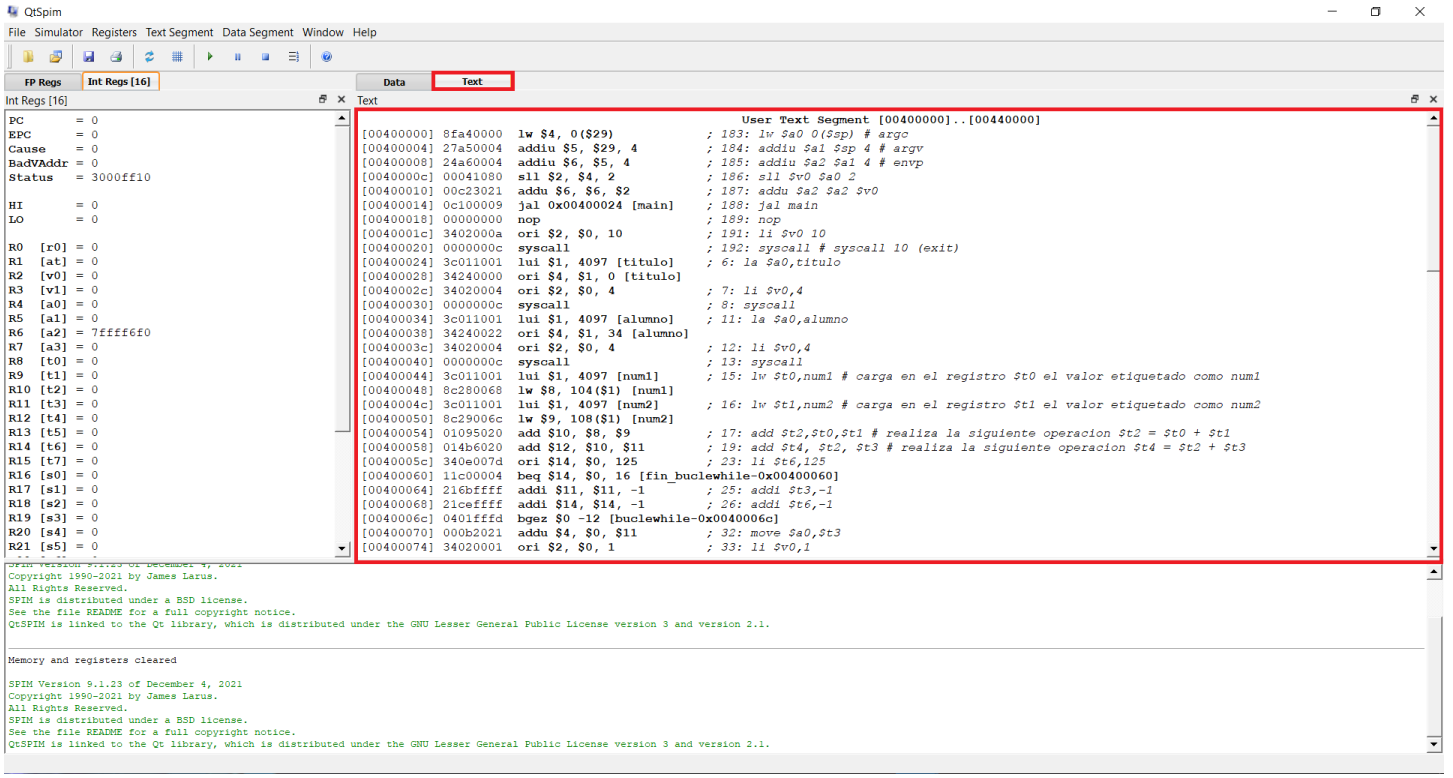
Práctica 1 - Principio de computadores

a)

I)
Se muestra aquí el segmento de datos (Usuario, Kernel y Pila).



II)
Se muestra esta vez el segmento de instrucciones (Usuario y Kernel).



III)

Aquí se puede ver el banco de registros enteros.

The screenshot shows the QtSpim MIPS simulator interface. The 'Int Regs [16]' window is open, displaying the state of the integer registers. The registers are listed on the left, and the assembly code is shown on the right. The registers are:

- PC = 0
- EPC = 0
- Cause = 0
- BadVAddr = 0
- Status = 3000ff10
- HI = 0
- LO = 0
- R0 [r0] = 0
- R1 [at] = 0
- R2 [v0] = 0
- R3 [v1] = 0
- R4 [a0] = 0
- R5 [a1] = 0
- R6 [a2] = 7ffff6f0
- R7 [a3] = 0
- R8 [t0] = 0
- R9 [t1] = 0
- R10 [t2] = 0
- R11 [t3] = 0
- R12 [t4] = 0
- R13 [t5] = 0
- R14 [t6] = 0
- R15 [t7] = 0
- R16 [s0] = 0
- R17 [s1] = 0
- R18 [s2] = 0
- R19 [s3] = 0
- R20 [s4] = 0
- R21 [s5] = 0

The assembly code window shows the following code:

```
[00400000] 8fa40000 lw $4, 0($29) ; 183: lw $a0 0($sp) # argc
[00400004] 27a50004 addiu $5, $29, 4 ; 184: addiu $a1 $sp 4 # argv
[00400008] 24a60004 addiu $6, $5, 4 ; 185: addiu $a2 $a1 4 # envp
[0040000c] 00041080 sll $2, $4, 2 ; 186: sll $v0 $a0 2
[00400010] 00c23021 addu $6, $6, $2 ; 187: addu $a2 $a2 $v0
[00400014] 0c100009 jal 0x00400024 [main] ; 188: jal main
[00400018] 00000000 nop ; 189: nop
[0040001c] 3402000a ori $2, $0, 10 ; 191: li $v0 10
[00400020] 0000000c syscall ; 192: syscall # syscall 10 (exit)
[00400024] 3c011001 lui $1, 4097 [titulo] ; 6: la $a0,titulo
[00400028] 34240000 ori $4, $1, 0 [titulo] ;
[0040002c] 34020004 ori $2, $0, 4 ; 7: li $v0,4
[00400030] 0000000c syscall ; 8: syscall
[00400034] 3c011001 lui $1, 4097 [alumno] ; 11: la $a0,alumno
[00400038] 34240022 ori $4, $1, 34 [alumno] ;
[0040003c] 34020004 ori $2, $0, 4 ; 12: li $v0,4
[00400040] 0000000c syscall ; 13: syscall
[00400044] 3c011001 lui $1, 4097 [num1] ; 15: lw $t0,num1 # carga en el registro $t0 el valor etiquetado como num1
[00400048] 8c280069 lw $8, 104($1) [num1] ;
[0040004c] 3c011001 lui $1, 4097 [num2] ; 16: lw $t1,num2 # carga en el registro $t1 el valor etiquetado como num2
[00400050] 8c29006c lw $9, 108($1) [num2] ;
[00400054] 01095020 add $10, $9, $9 ; 17: add $t2,$t0,$t1 # realiza la siguiente operacion $t2 = $t0 + $t1
[00400058] 014b6020 add $12, $10, $11 ; 19: add $t4, $t2, $t3 # realiza la siguiente operacion $t4 = $t2 + $t3
[0040005c] 340a007d ori $14, $0, 125 ; 23: li $t6,125
[00400060] 11c00004 beq $14, $0, 16 [fin_buclewhile-0x00400060] ;
[00400064] 216bffff addi $11, $11, -1 ; 25: addi $t3,-1
[00400068] 21ceffff addi $14, $14, -1 ; 26: addi $t6,-1
[0040006c] 0401ffff bgez $0 -12 [buclewhile-0x0040006c] ;
[00400070] 000b2021 addu $4, $0, $11 ; 32: move $a0,$t3
[00400074] 34020001 ori $2, $0, 1 ; 33: li $v0,1
```

IV)

Y aquí se puede ver el banco de registros en punto flotante.

The screenshot shows the QtSpim MIPS simulator interface. The 'FP Regs' window is open, displaying the state of the floating-point registers. The registers are listed on the left, and the assembly code is shown on the right. The registers are:

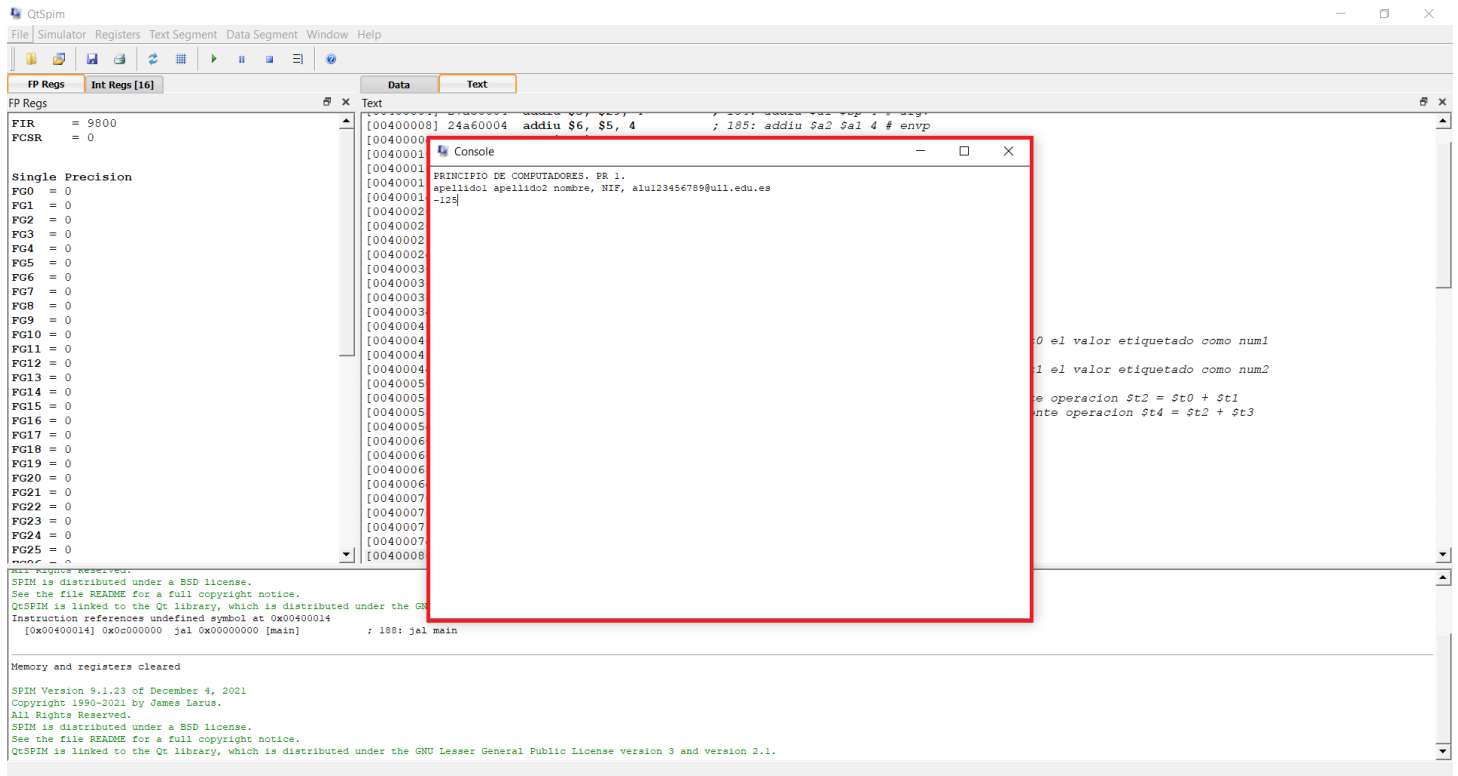
- FIR = 9800
- FCSR = 0
- Single Precision
- FG0 = 0
- FG1 = 0
- FG2 = 0
- FG3 = 0
- FG4 = 0
- FG5 = 0
- FG6 = 0
- FG7 = 0
- FG8 = 0
- FG9 = 0
- FG10 = 0
- FG11 = 0
- FG12 = 0
- FG13 = 0
- FG14 = 0
- FG15 = 0
- FG16 = 0
- FG17 = 0
- FG18 = 0
- FG19 = 0
- FG20 = 0
- FG21 = 0
- FG22 = 0
- FG23 = 0
- FG24 = 0
- FG25 = 0

The assembly code window shows the following code:

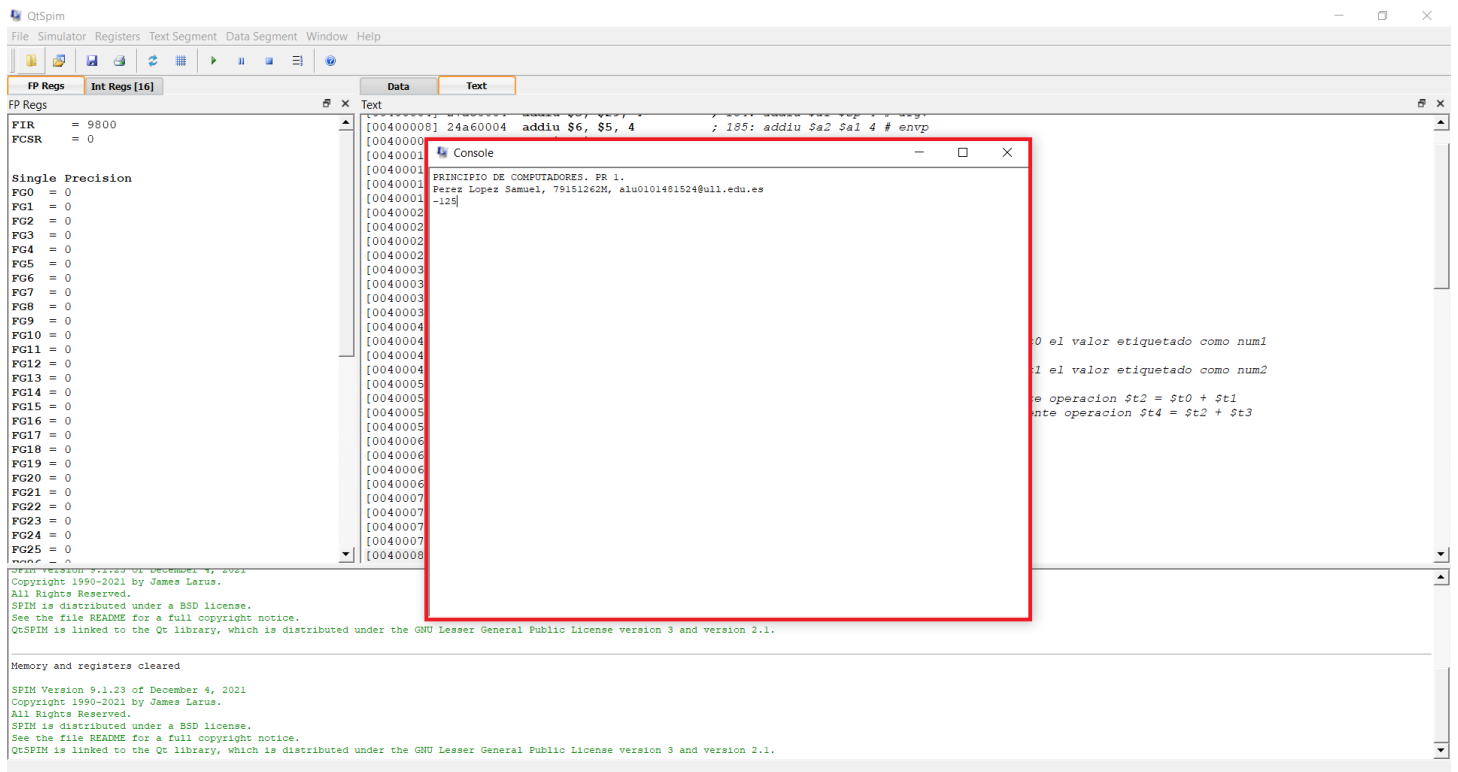
```
[00400000] 8fa40000 lw $4, 0($29) ; 183: lw $a0 0($sp) # argc
[00400004] 27a50004 addiu $5, $29, 4 ; 184: addiu $a1 $sp 4 # argv
[00400008] 24a60004 addiu $6, $5, 4 ; 185: addiu $a2 $a1 4 # envp
[0040000c] 00041080 sll $2, $4, 2 ; 186: sll $v0 $a0 2
[00400010] 00c23021 addu $6, $6, $2 ; 187: addu $a2 $a2 $v0
[00400014] 0c100009 jal 0x00000000 [main] ; 188: jal main
[00400018] 00000000 nop ; 189: nop
[0040001c] 3402000a ori $2, $0, 10 ; 191: li $v0 10
[00400020] 0000000c syscall ; 192: syscall # syscall 10 (exit)

[80000180] 0001d821 addu $27, $0, $1 ; 90: move $k1 $at # Save $at
[80000184] 3c019000 lui $1, -28672 ; 92: sw $v0 $1 # Not re-entrant and we can't trust $sp
[80000188] ac220200 sw $2, 512($1) ;
[8000018c] 3c019000 lui $1, -28672 ; 93: sw $a0 $2 # But we need to use these registers
[80000190] ac240204 sw $4, 516($1) ;
[80000194] 401a6800 mfc0 $26, $13 ; 95: mfc0 $k0 $13 # Cause register
[80000198] 001a2082 srl $4, $26, 2 ; 96: srl $a0 $k0 2 # Extract ExCoCode Field
[8000019c] 3084001f andi $4, $4, 31 ; 97: andi $a0 $a0 0x1f
[800001a0] 34020004 ori $2, $0, 4 ; 101: li $v0 4 # syscall 4 (print_str)
[800001a4] 3c049000 lui $4, -28672 [__ml_] ; 102: la $a0 __ml_
[800001a8] 0000000c syscall ; 103: syscall
[800001ac] 34020001 ori $2, $0, 1 ; 105: li $v0 1 # syscall 1 (print_int)
[800001b0] 001a2082 srl $4, $26, 2 ; 106: srl $a0 $k0 2 # Extract ExCoCode Field
[800001b4] 3084001f andi $4, $4, 31 ; 107: andi $a0 $a0 0x1f
[800001b8] 0000000c syscall ; 108: syscall
[800001bc] 34020004 ori $2, $0, 4 ; 110: li $v0 4 # syscall 4 (print_str)
[800001c0] 3344003c andi $4, $26, 60 ; 111: andi $a0 $k0 0x3c
[800001c4] 3c019000 lui $1, -28672 ; 112: lw $a0 __exop($a0)
[800001c8] 00240821 addu $1, $1, $4 ;
```

V)
Por último se muestra la consola del sistema ejecutando el programa.



b)
Se observa la consola del sistema, con el programa cambiado en el Visual Studio Code, sustituyendo los datos iniciales con los míos personales.



c)

l)

Aquí se está localizando la letra inicial (S) para poder asignarle su espacio de memoria.

```
User data segment [10000000]..[10040000]
[10000000]..[1000ffff] 00000000
[10010000] 4e495250 49504943 4544204f 4d4f4320 P R I N C I P I O D E C O M
[10010010] 41545550 45524f44 50202e53 2e312052 P U T A D O R E S . P R 1 .
[10010020] 6550000a 207a6572 65706f4c 6153207a . . P e r e z L o p e z S a
[10010030] 6c65756d 3937202c 32313531 2c4d3236 m u e l , 7 9 1 5 1 2 6 2 M ,
[10010040] 756c6120 31303130 35313834 75403432 a l u 0 1 0 1 4 8 1 5 2 4 @ u
[10010050] 652e6c6c 652e7564 00000a73 00000000 l l . e d u . e s . . . . .
[10010060] 490a3d71 4180f159 00000015 0000002c q = . I Y . . A . . . . , . . .
[10010070] 3bafc10c 4089a1cb 00000000 00000000 . . . ; . . . @ . . . . .
[10010080]..[1003ffff] 00000000
```

La dirección de memoria de la inicial de mi nombre (S) es [1001002e].

II)

Están señaladas la letra inicial de mi nombre y su representación en hexadecimal.

```
User data segment [10000000]..[10040000]
[10000000]..[1000ffff] 00000000
[10010000] 4e495250 49504943 4544204f 4d4f4320 P R I N C I P I O D E C O M
[10010010] 41545550 45524f44 50202e53 2e312052 P U T A D O R E S . P R 1 .
[10010020] 6550000a 207a6572 65706f4c 6153207a . . P e r e z L o p e z S a
[10010030] 6c65756d 3937202c 32313531 2c4d3236 m u e l , 7 9 1 5 1 2 6 2 M ,
[10010040] 756c6120 31303130 35313834 75403432 a l u 0 1 0 1 4 8 1 5 2 4 @ u
[10010050] 652e6c6c 652e7564 00000a73 00000000 l l . e d u . e s . . . . .
[10010060] 490a3d71 4180f159 00000015 0000002c q = . I Y . . A . . . . , . . .
[10010070] 3bafc10c 4089a1cb 00000000 00000000 . . . ; . . . @ . . . . .
[10010080]..[1003ffff] 00000000
```

III)

Se observa el segmento de datos correspondiente a la dirección de num3.

```
User data segment [10000000]..[10040000]
[10000000]..[1000ffff] 00000000
[10010000] 4e495250 49504943 4544204f 4d4f4320 P R I N C I P I O D E C O M
[10010010] 41545550 45524f44 50202e53 2e312052 P U T A D O R E S . P R 1 .
[10010020] 6550000a 207a6572 65706f4c 6153207a . . P e r e z L o p e z S a
[10010030] 6c65756d 3937202c 32313531 2c4d3236 m u e l , 7 9 1 5 1 2 6 2 M ,
[10010040] 756c6120 31303130 35313834 75403432 a l u 0 1 0 1 4 8 1 5 2 4 @ u
[10010050] 652e6c6c 652e7564 00000a73 00000000 l l . e d u . e s . . . . .
[10010060] 490a3d71 4180f159 00000015 0000002c q = . I Y . . A . . . . , . . .
[10010070] 3bafc10c 4089a1cb 00000000 00000000 . . . ; . . . @ . . . . .
[10010080]..[1003ffff] 00000000
```

IV)

Se puede ver el número 4.301 pasado a hexadecimal, y posteriormente buscado en el QTSpim.

Enter a decimal floating-point number here, then click either the **Rounded** or the **Not Rounded** button.

Decimal Floating-Point: 4.301 Clear

Rounding from floating-point to 32-bit representation uses the IEEE-754 round

Results:

Decimal Value Entered: 4.301

Single precision (32 bits):

Binary: Status: normal

Bit 31 Sign Bit: 0

Bits 30 - 23 Exponent Field: 10000001

0: + 1: -

Decimal value of exponent field and exponent D: 129 - 127 = 2

Hexadecimal: 4089A1CB Decimal: 4.3010001

Double precision (64 bits):

Binary: Status: normal

Bit 63 Sign Bit: 0

Bits 62 - 52 Exponent Field: 10000000001

0: + 1: -

Decimal value of exponent field and exponent D: 1025 - 1023 = 2

Hexadecimal: 4089A1CB Decimal: 4.3010001

QTSpim

File Simulator Registers Text Segment Data Segment Window Help

FP Regs Int Regs [16] Data Text

Int Regs [16]

PC = 400080

EPC = 0

Cause = 0

BadVAddr = 0

Status = 3000fff10

HI = 0

LO = 0

R0 [r0] = 0

R1 [at] = 10010000

R2 [v0] = a

R3 [v1] = 0

R4 [a0] = fffff83

R5 [a1] = 7ffff6e4

R6 [a2] = 7ffff6ec

R7 [a3] = 0

R8 [t0] = 15

R9 [t1] = 2c

R10 [t2] = 41

R11 [t3] = fffff83

R12 [t4] = 41

R13 [t5] = 0

R14 [t6] = 0

R15 [t7] = 0

R16 [s0] = 0

R17 [s1] = 0

R18 [s2] = 0

R19 [s3] = 0

R20 [s4] = 0

R21 [s5] = 0

User data segment [10000000]..[10040000]

[10000000]..[1000ffff] 00000000

[10010000] 4e495250 49504943 4544204f 4d4f4320 P R I N C I P I O D E C O M

[10010010] 41545550 45524f44 50202e53 2e312052 P U T A D O R E S . P R 1 .

[10010020] 6550000a 207a6572 65706f4c 6153207a . . P e r e z L o p e z S a

[10010030] 6c65756d 3937202c 32313531 2c4d3236 m u e l , 7 9 1 5 1 2 6 2 M ,

[10010040] 756c6120 31303130 35313834 75403432 a l u 0 1 0 1 4 8 1 5 2 4 @ u

[10010050] 652e6c6c 652e7564 00000a73 00000000 l l . e d u . e s

[10010060] 490a3d71 4180f159 00000015 0000002c q = . I Y . A

[10010070] 3ba6c10c 4089a1cb 00000000 00000000 @

[10010080]..[1003ffff] 00000000

User Stack [7ffff6e0]..[80000000]

[7ffff6e0] 00000001 7ffff799 00000000 7fffffe1 M

[7ffff6f0] 7ffff6ba 7ffffeb9 7ffffef4 7ffffefc

[7ffff700] 7ffff6ff 7ffffedb 7ffffea9 7ffffec9

[7ffff710] 7ffff686 7ffffec5 7ffffee3 7ffffee2 \ . . . >

[7ffff720] 7ffff606 7ffffddc 7ffffdb7 7ffffdb4

[7ffff730] 7ffffb09 7ffffaef 7ffffaa3 7ffffa91

[7ffff740] 7ffffa79 7ffffa5e 7ffffa40 7ffffa17 y . . . ^ . . . @

[7ffff750] 7ffff949 7ffff944 7ffff92d 7ffff919 D

[7ffff760] 7ffff90a 7ffff8f4 7ffff8cd 7ffff8a7

[7ffff770] 7ffff80c 7ffff862 7ffff853 7ffff838 b . . . s . . . 8 . . .

[7ffff780] 7ffff7fe 7ffff7ec 7ffff7d8 7ffff7c3

[7ffff790] 00000000 7ffff7c3 2f3a4300 72657355 C : / U s e r

[7ffff7a0] 61732f73 2f65706d 6e776f44 64616f6c s / s a m p e / D o w n l o a d

[7ffff7b0] 72702f73 69746361 5f316163 74736574 s / p r a c t i c a l t e s t

[7ffff7c0] 5f00732e 4c53505f 446b636f 506e776e P S L o c k D o w n P

[7ffff7d0] 63696c6e 00303d79 5f53455a 42414e45 o l i c y = 0 . 2 E S E N A B

[7ffff7e0] 535f454c 414d5359 00313d4e 646e6977 L E _ S Y S M A N = 1 . w i n d

[7ffff7f0] 433d7269 69575c3a 776f646e 42560073 i r = C : \ W i n d o w s . V B

[7ffff800] 4d5f584f 495f4953 4154534e 505f4c4c O X M S I I N S T A L L P

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Decimal value of the significand: 1.0752500000000000

V)

La dirección de memoria donde empieza es [10010074]

VI)

Se puede ver el número 35531561.13 pasado a hexadecimal, y posteriormente buscado en el QTSpim.

Results:

Decimal Value Entered: 35531561.13

Single precision (32 bits):

Binary: Status: normal

Bit 31 Sign Bit: 0

Bits 30 - 23 Exponent Field: 10011000

0: + 1: -

Decimal value of exponent field and exponent D: 152 - 127 = 25

Hexadecimal: 4C078ACA Decimal: 35531560

Double precision (64 bits):

Binary: Status: normal

Bit 63 Sign Bit: 0

Bits 62 - 52 Exponent Field: 1000011000

0: + 1: -

Decimal value of exponent field and exponent D: 1048 - 1023 = 25

Hexadecimal: 4180F159490A3D71 Decimal: 35531561.13

QTSpim

File Simulator Registers Text Segment Data Segment Window Help

FP Regs Int Regs [16] Data Text

Int Regs [16]

PC = 400080

EPC = 0

Cause = 0

BadVAddr = 0

Status = 3000fff10

HI = 0

LO = 0

R0 [r0] = 0

R1 [at] = 10010000

R2 [v0] = a

R3 [v1] = 0

R4 [a0] = fffff83

R5 [a1] = 7ffff6e4

R6 [a2] = 7ffff6ec

R7 [a3] = 0

R8 [t0] = 15

R9 [t1] = 2c

R10 [t2] = 41

R11 [t3] = fffff83

R12 [t4] = 41

R13 [t5] = 0

R14 [t6] = 0

R15 [t7] = 0

R16 [s0] = 0

R17 [s1] = 0

R18 [s2] = 0

R19 [s3] = 0

R20 [s4] = 0

R21 [s5] = 0

User data segment [10000000]..[10040000]

[10000000]..[1000ffff] 00000000

[10010000] 4e495250 49504943 4544204f 4d4f4320 P R I N C I P I O D E C O M

[10010010] 41545550 45524f44 50202e53 2e312052 P U T A D O R E S . P R 1 .

[10010020] 6550000a 207a6572 65706f4c 6153207a . . P e r e z L o p e z S a

[10010030] 6c65756d 3937202c 32313531 2c4d3236 m u e l , 7 9 1 5 1 2 6 2 M ,

[10010040] 756c6120 31303130 35313834 75403432 a l u 0 1 0 1 4 8 1 5 2 4 @ u

[10010050] 652e6c6c 652e7564 00000a73 00000000 l l . e d u . e s

[10010060] 490a3d71 4180f159 00000015 0000002c q = . I Y . A

[10010070] 3ba6c10c 4089a1cb 00000000 00000000 @

[10010080]..[1003ffff] 00000000

User Stack [7ffff6e0]..[80000000]

[7ffff6e0] 00000001 7ffff799 00000000 7fffffe1 M

[7ffff6f0] 7ffff6ba 7ffffeb9 7ffffef4 7ffffefc

[7ffff700] 7ffff6ff 7ffffedb 7ffffea9 7ffffec9

[7ffff710] 7ffff686 7ffffec5 7ffffee3 7ffffee2 \ . . . >

[7ffff720] 7ffff606 7ffffddc 7ffffdb7 7ffffdb4

[7ffff730] 7ffffb09 7ffffaef 7ffffaa3 7ffffa91

[7ffff740] 7ffffa79 7ffffa5e 7ffffa40 7ffffa17 y . . . ^ . . . @

[7ffff750] 7ffff949 7ffff944 7ffff92d 7ffff919 D

[7ffff760] 7ffff90a 7ffff8f4 7ffff8cd 7ffff8a7

[7ffff770] 7ffff80c 7ffff862 7ffff853 7ffff838 b . . . s . . . 8 . . .

[7ffff780] 7ffff7fe 7ffff7ec 7ffff7d8 7ffff7c3

[7ffff790] 00000000 7ffff7c3 2f3a4300 72657355 C : / U s e r

[7ffff7a0] 61732f73 2f65706d 6e776f44 64616f6c s / s a m p e / D o w n l o a d

[7ffff7b0] 72702f73 69746361 5f316163 74736574 s / p r a c t i c a l t e s t

[7ffff7c0] 5f00732e 4c53505f 446b636f 506e776e P S L o c k D o w n P

[7ffff7d0] 63696c6e 00303d79 5f53455a 42414e45 o l i c y = 0 . 2 E S E N A B

[7ffff7e0] 535f454c 414d5359 00313d4e 646e6977 L E _ S Y S M A N = 1 . w i n d

[7ffff7f0] 433d7269 69575c3a 776f646e 42560073 i r = C : \ W i n d o w s . V B

[7ffff800] 4d5f584f 495f4953 4154534e 505f4c4c O X M S I I N S T A L L P

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Decimal value of the significand: 1.0752500000000000

VII)

La dirección de memoria donde empieza es [10010060].

d)

l)

PC	=	400058
EPC	=	0
Cause	=	0
BadVAddr	=	0
Status	=	3000ff10
HI	=	0
LO	=	0
R0 [r0]	=	0
R1 [at]	=	10010000
R2 [v0]	=	4
R3 [v1]	=	0
R4 [a0]	=	10010022
R5 [a1]	=	7ffff6e4
R6 [a2]	=	7ffff6ec
R7 [a3]	=	0
R8 [t0]	=	15
R9 [t1]	=	2c
R10 [t2]	=	41
R11 [t3]	=	ffffff83
R12 [t4]	=	41
R13 [t5]	=	0
R14 [t6]	=	0
R15 [t7]	=	0
R16 [s0]	=	0
R17 [s1]	=	0
R18 [s2]	=	0
R19 [s3]	=	0
R20 [s4]	=	0
R21 [s5]	=	0

El \$t2 contiene el valor 41 en hexadecimal, que sería el número 65 en decimal.

II)

Se ha modificado manualmente el valor de \$t3 y se ha introducido el valor 1200 en formato decimal.

PC	=	400058
EPC	=	0
Cause	=	0
BadVAddr	=	0
Status	=	3000ff10
HI	=	0
LO	=	0
R0 [r0]	=	0
R1 [at]	=	10010000
R2 [v0]	=	4
R3 [v1]	=	0
R4 [a0]	=	10010022
R5 [a1]	=	7ffff6e4
R6 [a2]	=	7ffff6ec
R7 [a3]	=	0
R8 [t0]	=	15
R9 [t1]	=	2c
R10 [t2]	=	41
R11 [t3]	=	4b0
R12 [t4]	=	41
R13 [t5]	=	0
R14 [t6]	=	0
R15 [t7]	=	0
R16 [s0]	=	0
R17 [s1]	=	0
R18 [s2]	=	0
R19 [s3]	=	0
R20 [s4]	=	0
R21 [s5]	=	0

III)

```
PC      = 40005c
EPC     = 0
Cause   = 0
BadVAddr = 0
Status  = 3000ff10

HI      = 0
LO      = 0

R0 [r0] = 0
R1 [at] = 10010000
R2 [v0] = 4
R3 [v1] = 0
R4 [a0] = 10010022
R5 [a1] = 7ffff6e4
R6 [a2] = 7ffff6ec
R7 [a3] = 0
R8 [t0] = 15
R9 [t1] = 2c
R10 [t2] = 41
R11 [t3] = 4b0
R12 [t4] = 4f1
R13 [t5] = 0
R14 [t6] = 0
R15 [t7] = 0
R16 [s0] = 0
R17 [s1] = 0
R18 [s2] = 0
R19 [s3] = 0
R20 [s4] = 0
R21 [s5] = 0
-- -- --
```

El valor en hexadecimal de \$t4 es 4f1 en hexadecimal, y en decimal es 1265.

IV)

```
PC      = 400080
EPC     = 400070
Cause   = 24
BadVAddr = 0
Status  = 3000ff10

HI      = 0
LO      = 0

R0 [r0] = 0
R1 [at] = 10010000
R2 [v0] = a
R3 [v1] = 0
R4 [a0] = 433
R5 [a1] = 7ffff6e4
R6 [a2] = 7ffff6ec
R7 [a3] = 0
R8 [t0] = 15
R9 [t1] = 2c
R10 [t2] = 41
R11 [t3] = 433
R12 [t4] = 4f1
R13 [t5] = 0
R14 [t6] = 0
R15 [t7] = 0
R16 [s0] = 0
R17 [s1] = 0
R18 [s2] = 0
R19 [s3] = 0
R20 [s4] = 0
R21 [s5] = 0
```

El valor en hexadecimal de \$t3 es 433 en hexadecimal, y en decimal es 1075.

El valor en hexadecimal de \$t6 es 0 en hexadecimal, y en decimal es 0.