Rel 10

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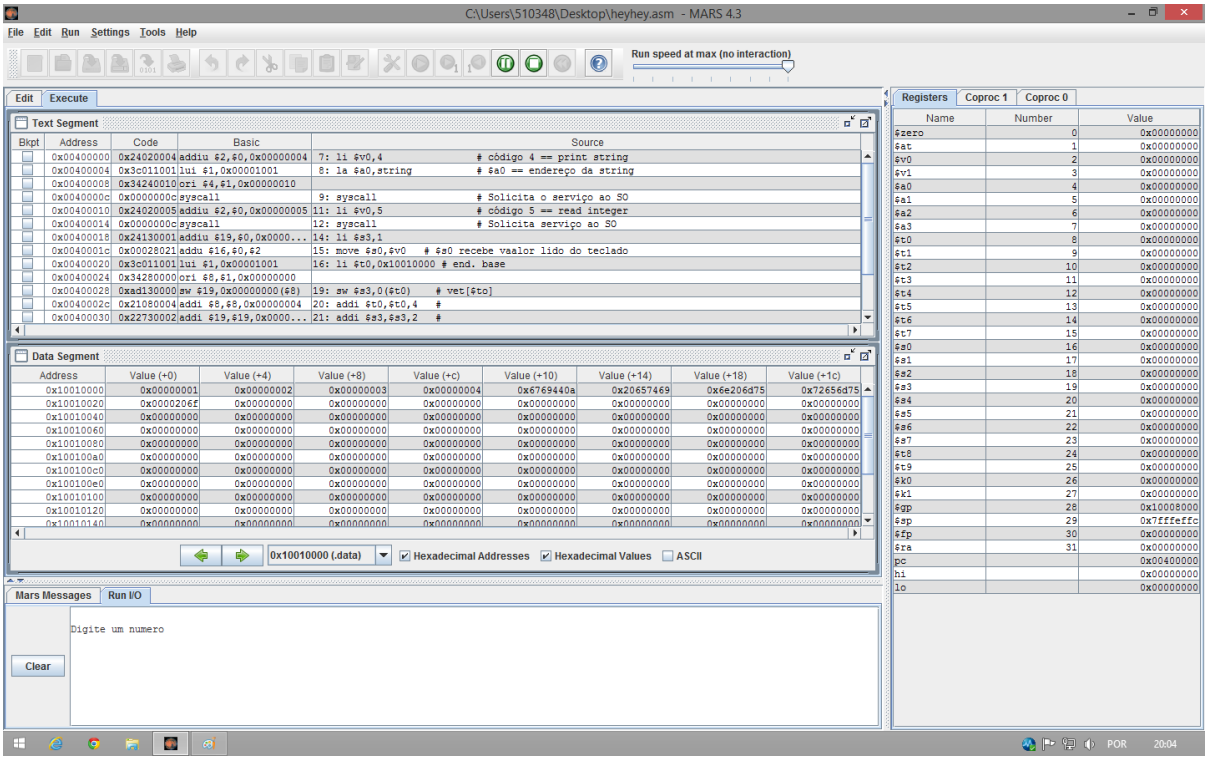
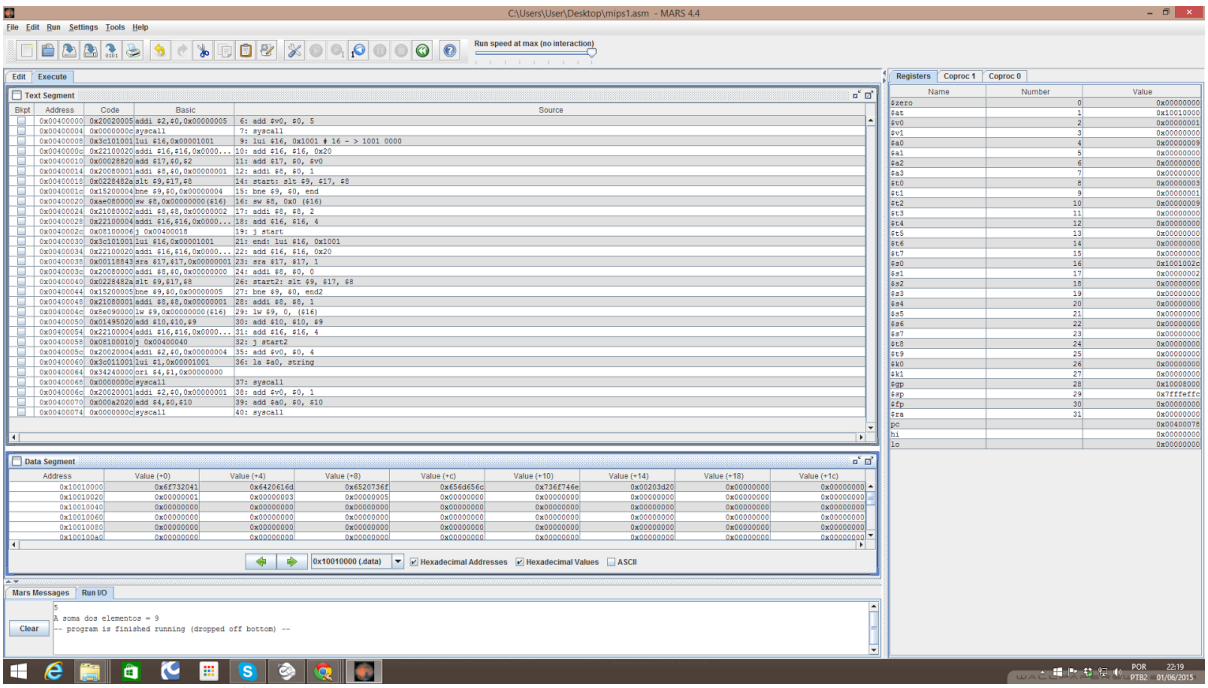
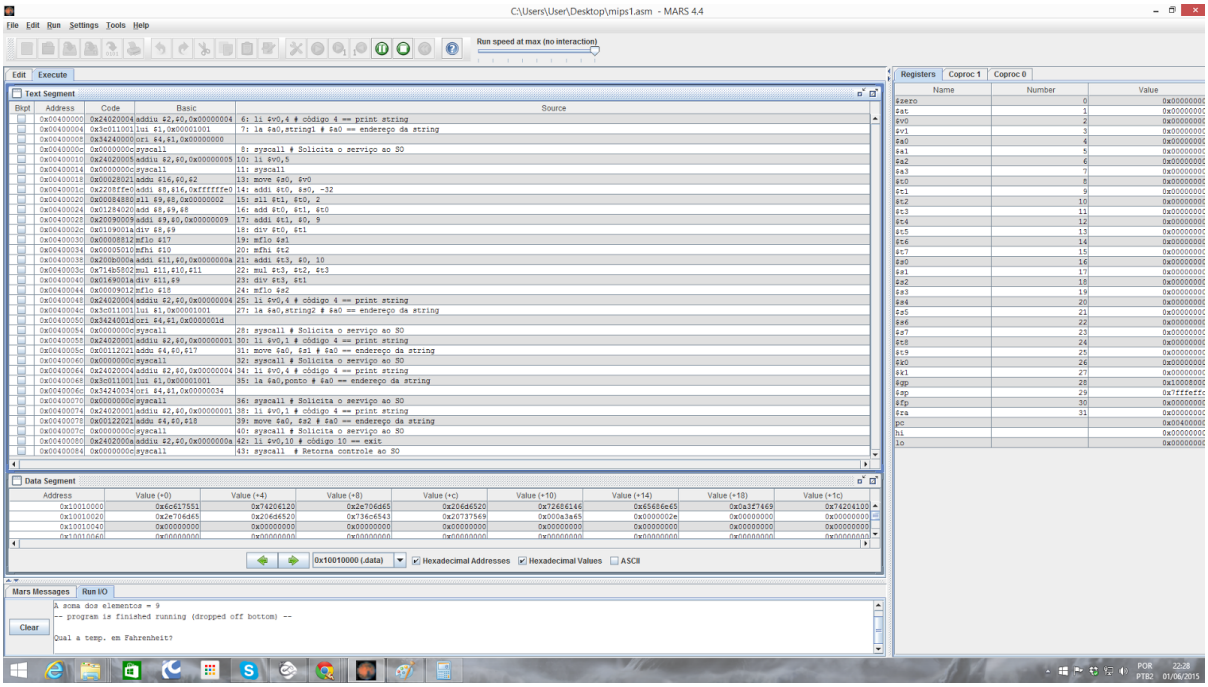
Q01



Q02



Q03


C:\Users\User\Desktop\mips1.asm - MARS 4.4
File Edit Run Settings Tools Help
Run speed at max (no interaction)
Edit Execute
Text Segment
Bkpt Address Code Basic Source
0x00400000 0x24020004 addiu $2,$0,0x00000004 6: li $v0,4 # código 4 == print string
0x00400004 0x3c011001 lui $1,0x00001001 7: la $a0,string1 # $a0 == endereço da string
0x00400008 0x34240000 ori $4,$1,0x00000000
0x0040000c 0x0000000c syscall 8: syscall # Solicita o serviço ao SO
0x00400010 0x24020005 addiu $2,$0,0x00000005 10: li $v0,5
0x00400014 0x0000000c syscall 11: syscall
0x00400018 0x00028021 addu $16,$0,$2 13: move $s0, $v0
0x0040001c 0x2205fff0 addi $5,$16,0xfffffff0 14: addi $t0, $s0, -32
0x00400020 0x00084880 sll $9,$8,0x00000002 15: sll $t1, $t0, 2
0x00400024 0x01284020 add $8,$9,$8 16: add $t0, $t1, $t0
0x00400028 0x20090009 addi $9,$0,0x00000009 17: addi $t1, $0, 9
0x0040002c 0x0119001a div $8,$9 18: div $t0, $t1
0x00400030 0x00008812 mflo $17 19: mflo $s1
0x00400034 0x00005010 mfhi $10 20: mfhi $t2
0x00400038 0x200b000a addi $11,$0,0x0000000a 21: addi $t3, $0, 10
0x0040003c 0x714b5802 mul $11,$10,$11 22: mul $t3, $t2, $t3
0x00400040 0x0169001a div $11,$9 23: div $t3, $t1
0x00400044 0x00009012 mflo $18 24: mflo $s2
0x00400048 0x24020004 addiu $2,$0,0x00000004 25: li $v0,4 # código 4 == print string
0x0040004c 0x3c011001 lui $1,0x00001001 27: la $a0,string2 # $a0 == endereço da string
0x00400050 0x3424001d ori $4,$1,0x0000001d
0x00400054 0x0000000c syscall 28: syscall # Solicita o serviço ao SO
0x00400058 0x24020001 addiu $2,$0,0x00000001 30: li $v0,1 # código 4 == print string
0x0040005c 0x00112021 addu $4,$0,$17 31: move $a0, $s1 # $a0 == endereço da string
0x00400060 0x0000000c syscall 32: syscall # Solicita o serviço ao SO
0x00400064 0x24020004 addiu $2,$0,0x00000004 34: li $v0,4 # código 4 == print string
0x00400068 0x3c011001 lui $1,0x00001001 35: la $a0,ponto # $a0 == endereço da string
0x0040006c 0x34240034 ori $4,$1,0x00000034
0x00400070 0x0000000c syscall 36: syscall # Solicita o serviço ao SO
0x00400074 0x24020001 addiu $2,$0,0x00000001 38: li $v0,1 # código 4 == print string
0x00400078 0x00122021 addu $4,$0,$18 39: move $a0, $s2 # $a0 == endereço da string
0x0040007c 0x0000000c syscall 40: syscall # Solicita o serviço ao SO
0x00400080 0x2402000a addiu $2,$0,0x0000000a 42: li $v0,10 # código 10 == exit
0x00400084 0x0000000c syscall 43: syscall # Retorna controle ao SO
Data Segment
Address Value (+0) Value (+4) Value (+8) Value (+c) Value (+10) Value (+14) Value (+18) Value (+1c)
0x10010000 0x6c617551 0x74206120 0x2e706d65 0x206d6520 0x72686146 0x6568e65 0x0a3f7469 0x74204100
0x10010020 0x2e706d65 0x206d6520 0x736c6543 0x20737569 0x000a3a65 0x0000002e 0x00000000 0x00000000
0x10010040 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000
0x10010060 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000
0x10010000 (.data)
Hexadecimal Addresses
Hexadecimal Values
ASCII
Registers Coproc 1 Coproc 0
Name Number Value
$zero 0 0x00000000
$at 1 0x00000000
$v0 2 0x00000000
$v1 3 0x00000000
$a0 4 0x00000000
$a1 5 0x00000000
$a2 6 0x00000000
$a3 7 0x00000000
$t0 8 0x00000000
$t1 9 0x00000000
$t2 10 0x00000000
$t3 11 0x00000000
$t4 12 0x00000000
$t5 13 0x00000000
$t6 14 0x00000000
$t7 15 0x00000000
$s0 16 0x00000000
$s1 17 0x00000000
$s2 18 0x00000000
$s3 19 0x00000000
$s4 20 0x00000000
$s5 21 0x00000000
$s6 22 0x00000000
$s7 23 0x00000000
$t8 24 0x00000000
$t9 25 0x00000000
$k0 26 0x00000000
$k1 27 0x00000000
$gp 28 0x10008000
$sp 29 0x7fffeffc
$fp 30 0x00000000
$ra 31 0x00000000
pc 0x00400000
hi 0x00000000
lo 0x00000000
Mars Messages Run I/O
Clear
A soma dos elementos = 9
-- program is finished running (dropped off bottom) --
Qual a temp. em Fahrenheit?
POR PTB2 22:28 01/06/2015