Go to first line

Next Line

addi \$t0, \$t0, 1

operation: addi

Register File:

Instruction Memory:

addi St1, St1, 7

operation: addi

Register File:

Instruction Memory:

operation: add

PC: 000000000000000000000000000001100

Register File:

Instruction Memory:

operation: and

Register File:

Instruction Memory:

 $\begin{aligned} \mathbf{Mem}[00000000000000000000000001100] &= 00000010 \\ \mathbf{Mem}[000000000000000000000000001101] &= 00010001 \\ \mathbf{Mem}[00000000000000000000000001110] &= 01000000 \\ \mathbf{Mem}[0000000000000000000000001111] &= 00100100 \end{aligned}$

operation: slt

Register File:

Instruction Memory:

addi \$t0, \$t0, 4

operation: addi

Register File:

Instruction Memory:

operation: addi

Register File:

Instruction Memory:

operation: slti

PC: 00000000000000000000000000001100

Register File:

Instruction Memory:

> Mem[000000000000000000000000000110] = 00000000Mem[0000000000000000000000000000111] = 00000001

operation: lw Register File: Instruction Memory: Mem[000000000000000000000000000000001] = 00010001Mem[000000000000000000000000010010] = 00000000Mem[0000000000000000000000000010011] = 00000100Data Memory: Mem[000000000000000000000000000101] = 00000000Mem[000000000000000000000000000110] = 00000000

Mem[000000000000000000000000000111] = 00000001

ient: beq \$t1, \$t0, Initiali

operation: beq

Register File:

Instruction Memory:

Initialization: addi \$t0, \$t0, 4

operation: addi

Register File:

Instruction Memory:

operation: addi

PC: 00000000000000000000000000001100

Register File:

Instruction Memory:

operation: bne

Register File:

Instruction Memory:

 $\begin{aligned} \mathbf{Mem}[00000000000000000000000001100] &= 00010101 \\ \mathbf{Mem}[000000000000000000000000001101] &= 00101000 \\ \mathbf{Mem}[00000000000000000000000001110] &= 11111111 \\ \mathbf{Mem}[00000000000000000000000001111] &= 11111111 \end{aligned}$

ient: beq \$t1, \$t0, Initiali

operation: beq

Register File:

Instruction Memory:

operation: j opcode: 000010

address: 00000000000000000000010101 PC: 000000000000000000000000000011000

Register File:

Instruction Memory:

Exit: addi \$s0, \$s0, 5

operation: addi

PC: 000000000000000000000000000011100

Register File:

Instruction Memory:

 $\begin{aligned} \mathbf{Mem}[00000000000000000000000010100] &= 00100010 \\ \mathbf{Mem}[000000000000000000000000010101] &= 00010000 \\ \mathbf{Mem}[00000000000000000000000010110] &= 00000000 \\ \mathbf{Mem}[0000000000000000000000010111] &= 00000101 \end{aligned}$