

QtSpim

File Simulator Registers Text Segment Data Segment Window Help

FP Regs Int Regs [16]

Int Regs [16]

PC = 0
EPC = 0
Cause = 0
BadVAddr = 0
Status = 3000fff10
HI = 0
LO = 0
R0 [r0] = 0
R1 [at] = 0
R2 [v0] = 0
R3 [v1] = 0
R4 [a0] = 1
R5 [a1] = 7ffff8cc
R6 [a2] = 7ffff8d4
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
R22 [s6] = 0

Data

User data segment [10000000]..[10040000]

[10000000]..[1000ffff] 00000000
[10010000] 6568540a 78616d20 6d756d69 6d756e20 . The maximum num
[10010010] 20726562 6320666f 61726168 72657463 ber of character
[10010020] 68742073 74207461 20736968 676f7270 s that this prog
[10010030] 206d6172 206e6163 726f7473 73692065 ram can store is
[10010040] 30303120 09090a5c 09090909 540a2020 1 0 0 \T
[10010050] 73206568 6e697274 68742067 68207461 he string that h
[10010060] 62207361 206e6565 726f7473 61206465 as been stored a
[10010070] 72657466 73617020 676e6973 65687420 fter passing the
[10010080] 6a696e20 69207469 000a3a73 656c500a limit is: . . . Ple
[10010090] 20657361 65746e65 6f720272 63207275 ase enter your c
[100100a0] 61726168 72657463 0a000a3a 20656854 haracter: . . .The
[100100b0] 69727473 6920676e 000a3a73 00000000 string is:
[100100c0]..[1003ffff] 00000000

User Stack [7ffff8c8]..[80000000]

[7ffff8c8] 00000001 7ffff980
[7ffff8d0] 00000000 7fffffe1 7fffffbd 7fffff8c
[7ffff8e0] 7fffff50 7fffff1f 7fffff02 7ffffede P
[7ffff8f0] 7ffffeac 7ffffe7b 7ffffe53 7ffffe46 . . . { . . . S . . . F . . .
[7ffff900] 7ffffe33 7ffffe0c 7ffffdee 7ffffdd7 3
[7ffff910] 7ffffdac 7ffffd77 7ffffd69 7ffffc90 . . . w . . . i
[7ffff920] 7ffffc52 7ffffc35 7ffffbec 7ffffbda R . . . 5
[7ffff930] 7ffffbcb 7ffffbaf 7ffffb89 7ffffb60
[7ffff940] 7ffffb42 7ffffad7 7ffffac0 7ffffaac B
[7ffff950] 7ffffa9d 7ffffa87 7ffffa63 7ffffa40 c @ . . .
[7ffff960] 7ffffa25 7ffff9fb 7ffff9ef 7ffff9d7 %
[7ffff970] 7ffff9c5 7ffff9b1 00000000 00000000
[7ffff980] 552f3a43 73726573 2f63502f 75636f44 C : / U s e r s / P c / D o c u
[7ffff990] 746e656d 73412f73 626d6573 325f796c m e n t s / A s s e m b l y _ 2
[7ffff9a0] 2d313230 6c2f3232 31306261 6d73612e 0 2 1 - 2 2 / l a b 0 1 . a s m

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Memory and registers cleared

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R2 [v0] = 0
R3 [v1] = 0
R4 [a0] = 1
R5 [a1] = 7ffff8cc
R6 [a2] = 7ffff8d4
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
R22 [s6] = 0

Data

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[10000000]..[1000ffff] 00000000
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[100100c0]..[1003ffff] 00000000

User Stack [7ffff8c8]..[80000000]

[7ffff8c8] 00000001 7ffff980
[7ffff8d0] 00000000 7fffffe1 7fffffbd 7fffff8c
[7ffff8e0] 7fffff50 7fffff1f 7fffff02 7ffffede P
[7ffff8f0] 7ffffeac 7ffffe7b 7ffffe53 7ffffe46 . . . { . . . S . . . F . . .
[7ffff900] 7ffffe33 7ffffe0c 7ffffdee 7ffffdd7 3
[7ffff910] 7ffffdac 7ffffd77 7ffffd69 7ffffc90 . . . w . . . i
[7ffff920] 7ffffc52 7ffffc35 7ffffbec 7ffffbda R . . . 5
[7ffff930] 7ffffbcb 7ffffbaf 7ffffb89 7ffffb60
[7ffff940] 7ffffb42 7ffffad7 7ffffac0 7ffffaac B
[7ffff950] 7ffffa9d 7ffffa87 7ffffa63 7ffffa40 c @ . . .
[7ffff960] 7ffffa25 7ffff9fb 7ffff9ef 7ffff9d7 %
[7ffff970] 7ffff9c5 7ffff9b1 00000000 00000000
[7ffff980] 552f3a43 73726573 2f63502f 75636f44 C : / U s e r s / P c / D o c u
[7ffff990] 746e656d 73412f73 626d6573 325f796c m e n t s / A s s e m b l y _ 2
[7ffff9a0] 2d313230 6c2f3232 31306261 6d73612e 0 2 1 - 2 2 / l a b 0 1 . a s m

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Running

QtSpim

File Simulator Registers Text Segment Data Segment Window Help

FP Regs Int Regs [16] Data Text

Int Regs [16]

PC = 40008c
EPC = 0
Cause = 0
BadVAddr = 0
Status = 3000ff10
HI = 0
LO = 0
R0 [r0] = 0
R1 [at] = 10010000
R2 [v0] = a
R3 [v1] = 0
R4 [a0] = 100100bc
R5 [a1] = 7ffff8cc
R6 [a2] = 7ffff8d4
R7 [a3] = 0
R8 [t0] = 40
R9 [t1] = 40
R10 [t2] = 4
R11 [t3] = 64
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
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User data segment [10000000]..[10040000]
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[10010090] 20657361 65746e65 6f792072 63207275 ase enter your c
[100100a0] 61726168 72657463 0a000a3a 20656854 haracter: . . . The
[100100b0] 69727473 6920676e 000a3a73 37234261 string is: . . a b # 7
[100100c0]..[1003ffff] 00000000

User Stack [7ffff808]..[80000000]
[7ffff808] 00000001 7ffff980
[7ffff810] 00000000 7fffff1e 7fffffbd 7fffff8c
[7ffff820] 7fffff50 7fffff1f 7fffff02 7ffffede P
[7ffff830] 7ffffeac 7ffffe7b 7ffffe53 7ffffe46 P . . . { . . . S . . . F . . .
[7ffff840] 7ffffe33 7ffffe0c 7ffffdee 7ffffdd7 3 . . . w . . . i . . .
[7ffff850] 7ffffdac 7ffffd77 7ffffd69 7ffffc90
[7ffff860] 7ffffc52 7ffffc35 7ffffbec 7ffffbda R . . . 5
[7ffff870] 7ffffbc2 7ffffba7 7ffffb89 7ffffb60
[7ffff880] 7ffffb42 7ffffad7 7ffffac0 7ffffaac B
[7ffff890] 7ffffa9d 7ffffa63 7ffffa40 7ffffa40 c . . . @ . . .
[7ffff8a0] 7ffffa25 7ffff9fb 7ffff9ef 7ffff9d7 %
[7ffff8b0] 7ffff9c5 7ffff9b1 00000000 00000000
[7ffff8c0] 552f3a43 73726573 2f63502f 75636f44 C : / U s e r s / P c / D o c u
[7ffff8d0] 746e656d 73412f73 62d6573 325f796c m e n t s / A s s e m b l y _ 2
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[7ffff820] 7fffff50 7fffff1f 7fffff02 7ffffede P
[7ffff830] 7ffffeac 7ffffe7b 7ffffe53 7ffffe46 P . . . { . . . S . . . F . . .
[7ffff840] 7ffffe33 7ffffe0c 7ffffdee 7ffffdd7 3 . . . w . . . i . . .
[7ffff850] 7ffffdac 7ffffd77 7ffffd69 7ffffc90
[7ffff860] 7ffffc52 7ffffc35 7ffffbec 7ffffbda R . . . 5
[7ffff870] 7ffffbc2 7ffffba7 7ffffb89 7ffffb60
[7ffff880] 7ffffb42 7ffffad7 7ffffac0 7ffffaac B
[7ffff890] 7ffffa9d 7ffffa63 7ffffa40 7ffffa40 c . . . @ . . .
[7ffff8a0] 7ffffa25 7ffff9fb 7ffff9ef 7ffff9d7 %
[7ffff8b0] 7ffff9c5 7ffff9b1 00000000 00000000
[7ffff8c0] 552f3a43 73726573 2f63502f 75636f44 C : / U s e r s / P c / D o c u
[7ffff8d0] 746e656d 73412f73 62d6573 325f796c m e n t s / A s s e m b l y _ 2
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