CS 261 Machine Organization

- Prof. Theys

Lab Week 5

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Q1 Contents of the stack when the 2nd instance of fib(4) is ready to remove its stack frame from the stack. (60 points)

[(gdb) x/20gx \$rsp 0x7fffffffe9f0: 0x00000000fffffffff 0x00000000000000004 0x7fffffffea00: 0x00007fffff7a411a8 0x00000000000000005 0x7fffffffea10: 0x00007ffffffffea40 0x0000000000400552 0x7fffffffea20: 0x0000000000000001 0×00000000000000006 0x7fffffffea30: 0x0000000000f0b5ff 0x00000000000000000 0x7fffffffea40: 0x00007ffffffffea60 0x0000000000400578 0x7fffffffea50: 0x00007ffffffffeb40 0x0000000600000000 0x7fffffffea60: 0x0000000000000000 0x00007ffff7a52b45 0x7fffffffea70: 0x0000000000000000 0x00007fffffffeb48 0x7fffffffea80: 0x0000000100000000 0x000000000040055c

Q2 Please fill out the register contents: (40 pts)

rax: 3

rsp: 0x7fffffffe9f0

rdi: 0

rbp: 0x7fffffffea10