

## 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)

```
0x7fffffffef0: 0x0000000000000000
(gdb) x/20gx $rsp
0x7fffffffef0: 0x0000000000000000
0x7fffffffefa0: 0x0000000000000000
0x7fffffffefa10: 0x0000000000000000
0x7fffffffefa20: 0x0000000000000001
0x7fffffffefa30: 0x000000000000000f0b5ff
0x7fffffffefa40: 0x000000000000000400578
0x7fffffffefa50: 0x000000000000000600000000
0x7fffffffefa60: 0x000000000000000000000000
0x7fffffffefa70: 0x000000000000000000000000
0x7fffffffefa80: 0x000000000000000000000000
```

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

rax: 3

rsp: 0x7fffffffef0

rdi: 0

rbp: 0x7fffffffefa10