

CS315-02 RISC-V Assembly 5

Functions and Recursion

Function Calls

caller-saved regs: a0-a7, t0-t6, ra

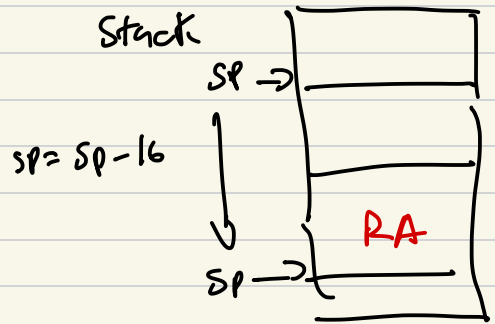
callee-saved regs: s0-s11, sp

foo:

addi sp, sp, -16

sd ra, (sp)

save s regs on stack



bar:

add a0, a0, a1

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save caller saved

call bar

restore
caller saved

restore s regs

ld ra, (sp)

addi sp, sp, 16

ret

ret

add4f.3

Stack

SP →

a0 (tempo)

a3

a2

RA

SP+32

Recursion

STACK

