

CS 631-01 RISC-V Assembly

Topics

Registers

instructions

labels

register conventions

function calling conventions

Simple functions

arrays

if / else

loops

Memory / Array

64 32 8

loads : ld , lw , lb

stores : sd , sw , sb

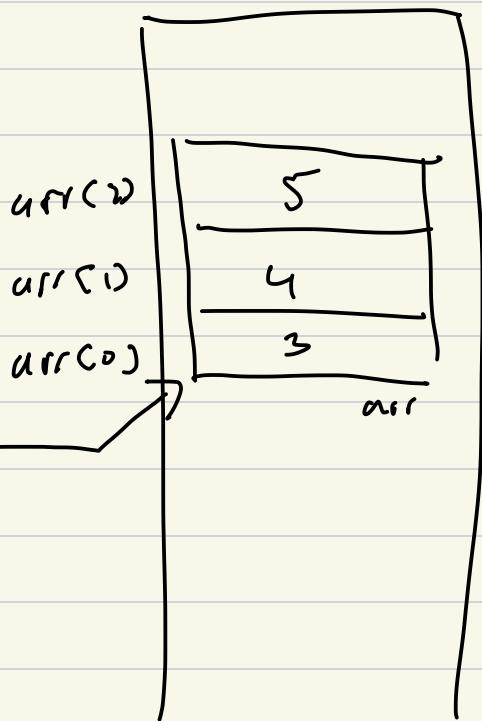
lw to, (a0) # to = *a0;

a0 contains an address,

Main :

→ add3arr-s:

lw to, (a0)



Stores

$sw \underline{to}, (a_0) \quad \# \quad *a_0 = t_0$



Control

Branches and Jumps

ble $a_0, zero, \frac{\text{close}}{\text{target address}}$

$\begin{cases} less \\ to compare \end{cases}$

less than or equal)

bge greater than or equal

Simple functions

Rules

arguments in a_0, a_1, a_2, \dots

return value put into a_0

Only use a registers or t registers

Don't use the s registers