

CS 315-02 Lab Tests Mem

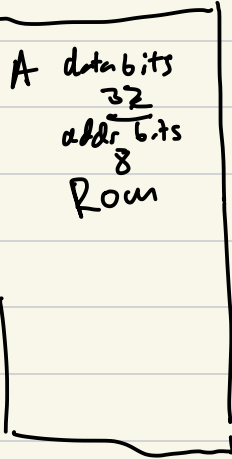
Tests

Inst Mem

Data Memory

511

ADDR 255



word
addr

SP →

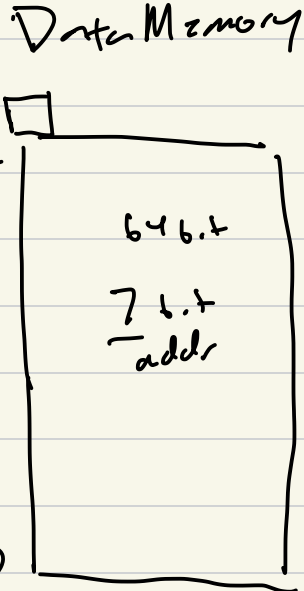
1024

$$2^7 \times 2^3 = 2^{10}$$

$$2^{10} = 1024$$

0

double
addr



Tests

unit

prog

Main:

setup stack pointer

li sp, 1024

put data on stack

set args a0, a1, a2, a3

jal func (call)

[pack]

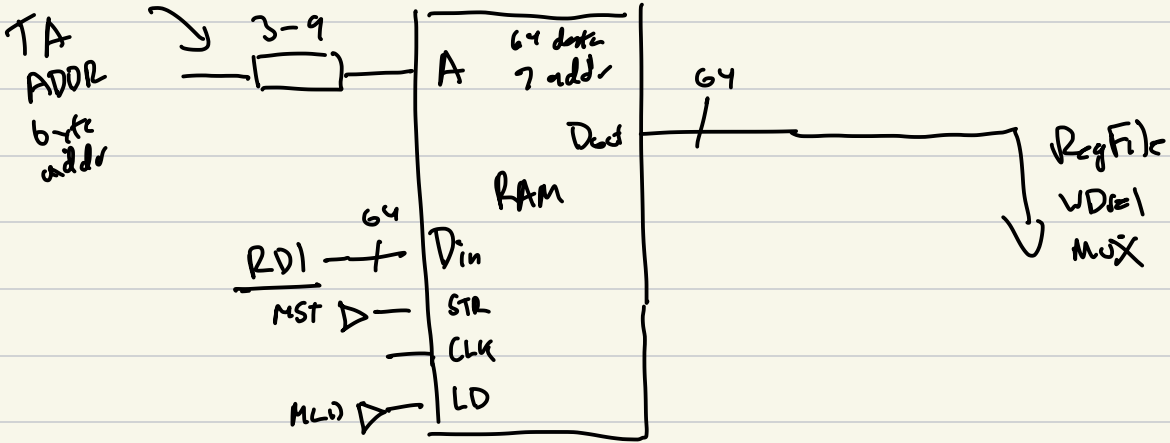
unimp

func:

ld / sd

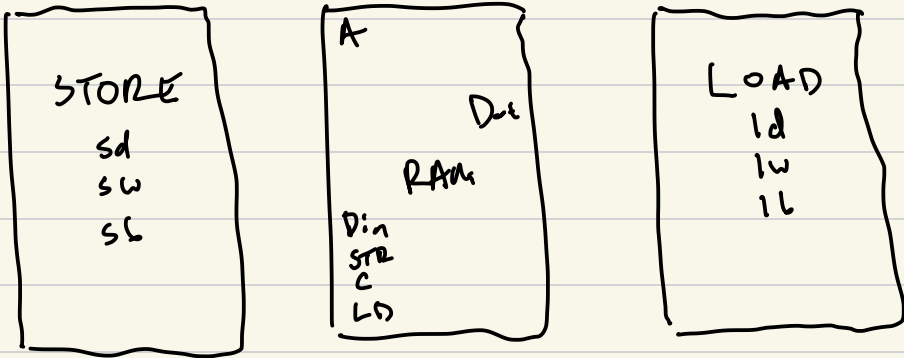
ld to, 0(t1)
↑
RSZ
RDI
RSI
RDI

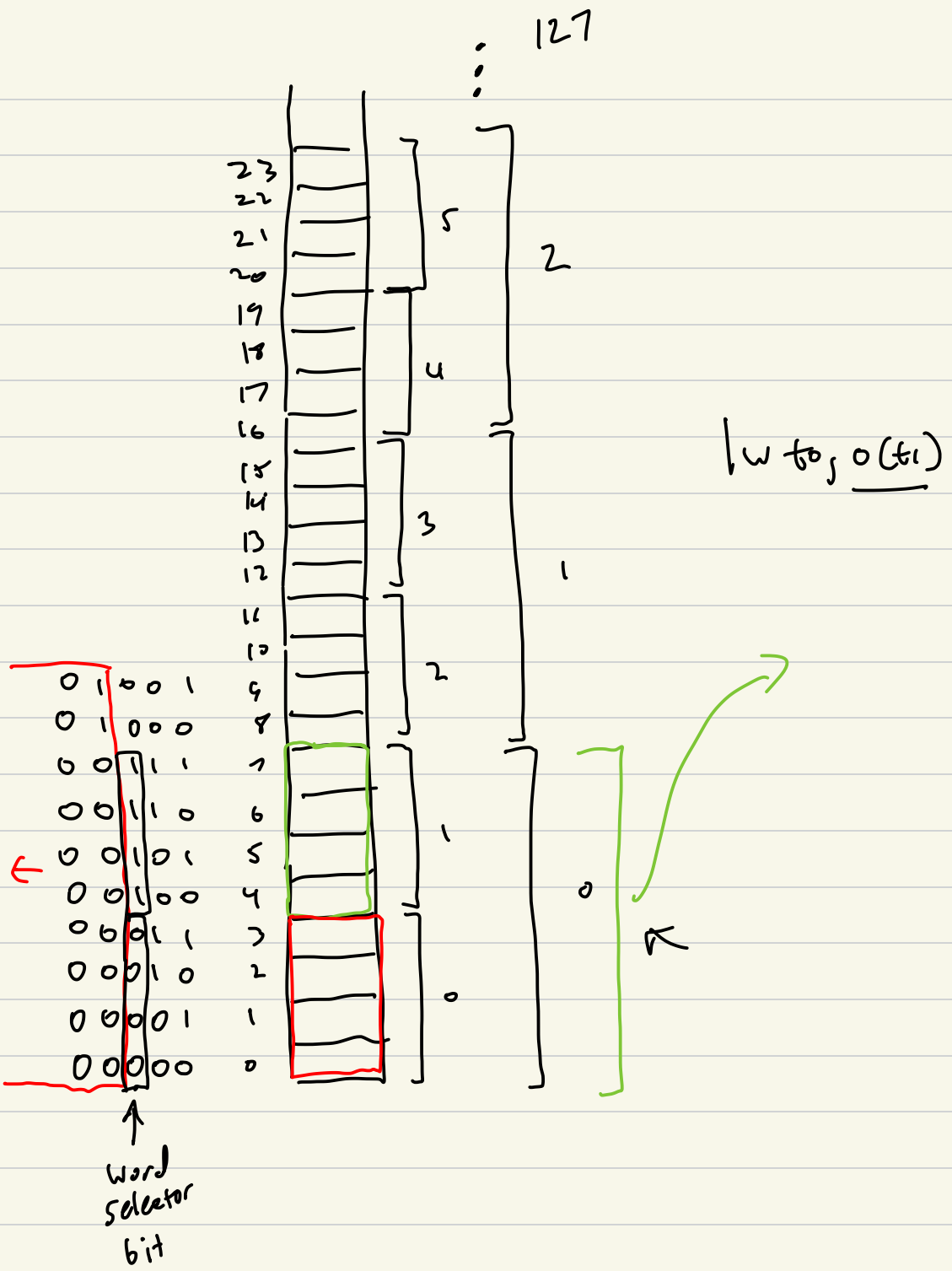
ld

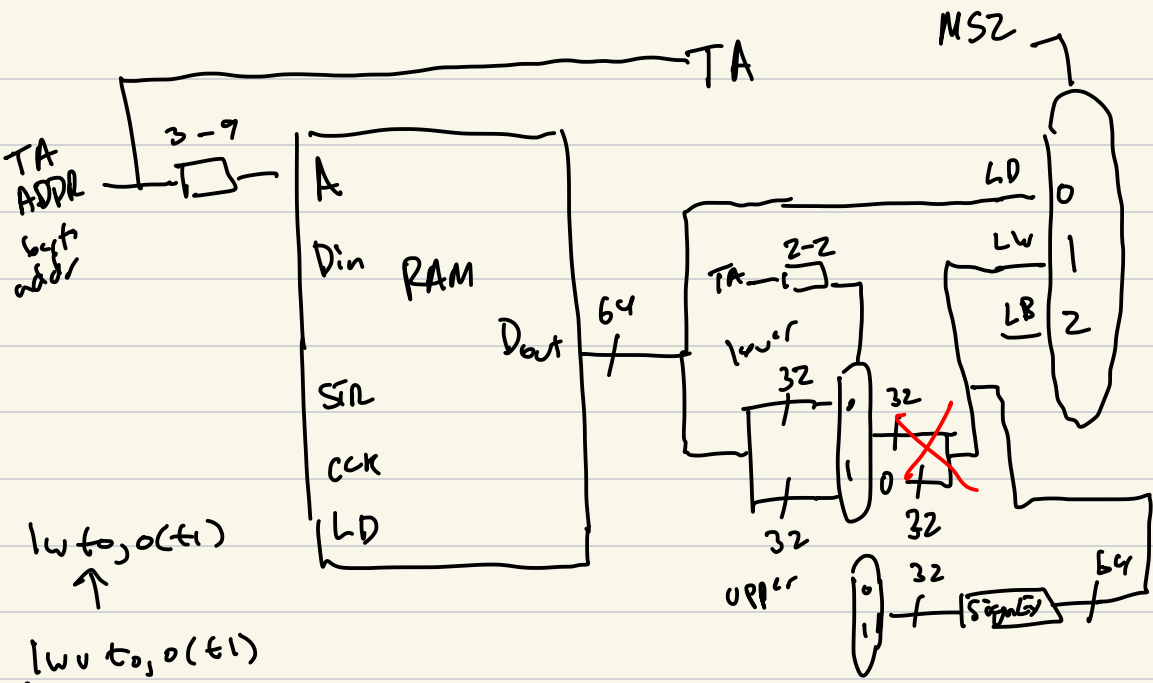


LD → MST=0 MLD=1
 SD → MST=1 MLD=0

lw / sw (lb / sb)







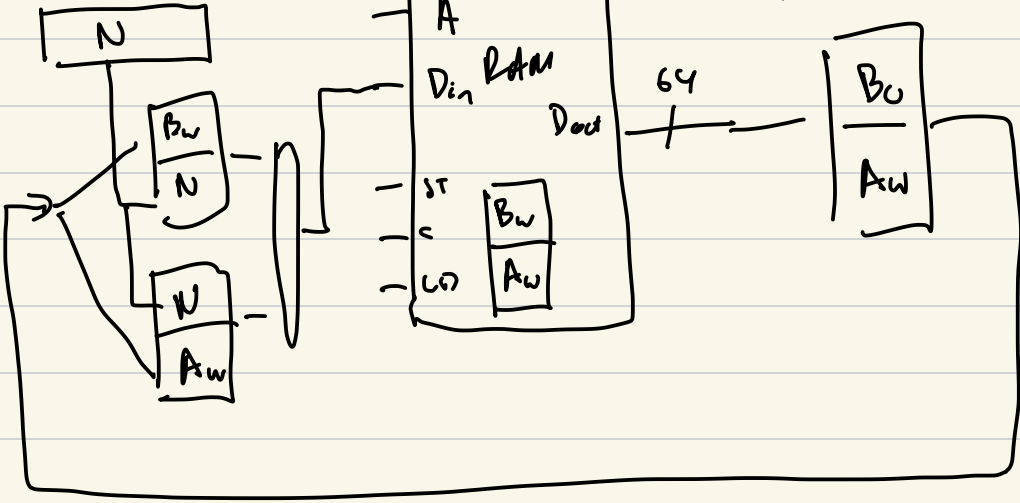
lw to, o(t)

↑

lwu to, o(t)

SW

RDI lower 32



RMW
read modify write

SW details

