

# CS 315-02 Lab Tests Mem

Tests

Inst Mem

Data Memory

511

ADDR 255

A data bits  
32  
addr 6 bits  
8  
Round

SP →

1024  
127

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

$$2^{10} = 1024$$

ADDR 0

word  
addr

0

double  
addr

64 bits

7 bits  
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 ]

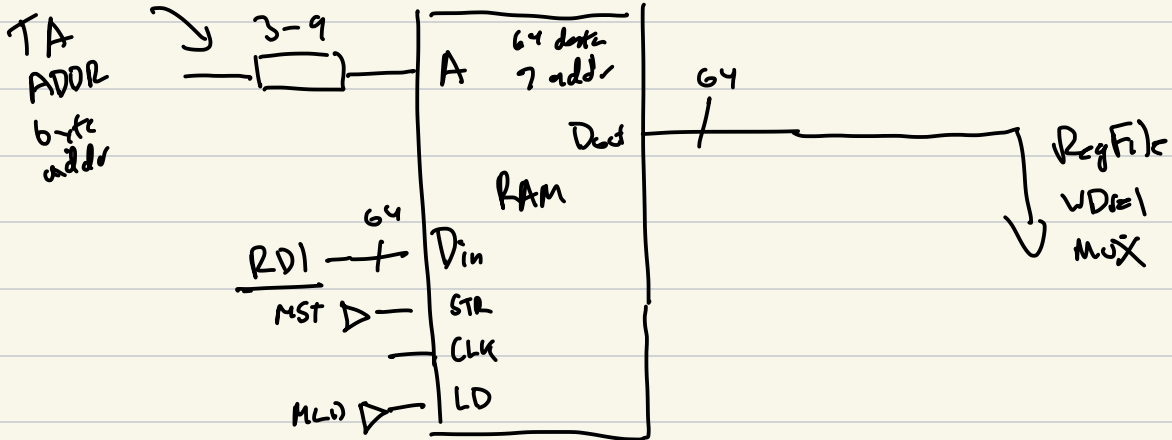
unimp

func:

ld / sd

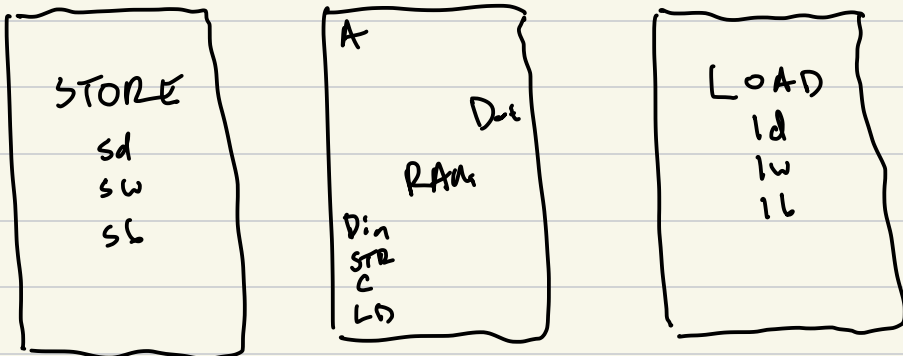
ld to, 0(t1)  
 ↑  
 RSZ  
 RD1  
 RS1  
 RD0

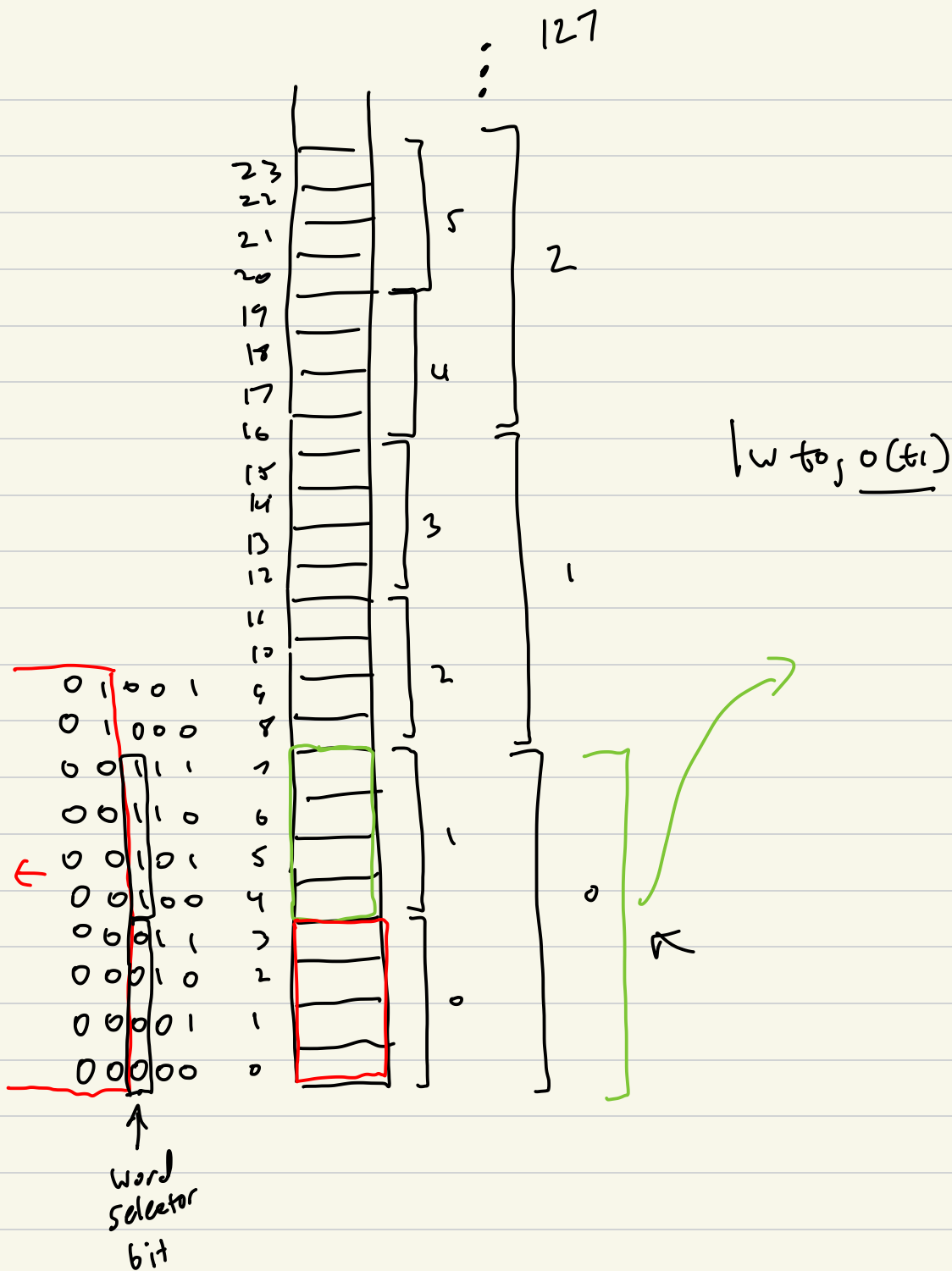
ld

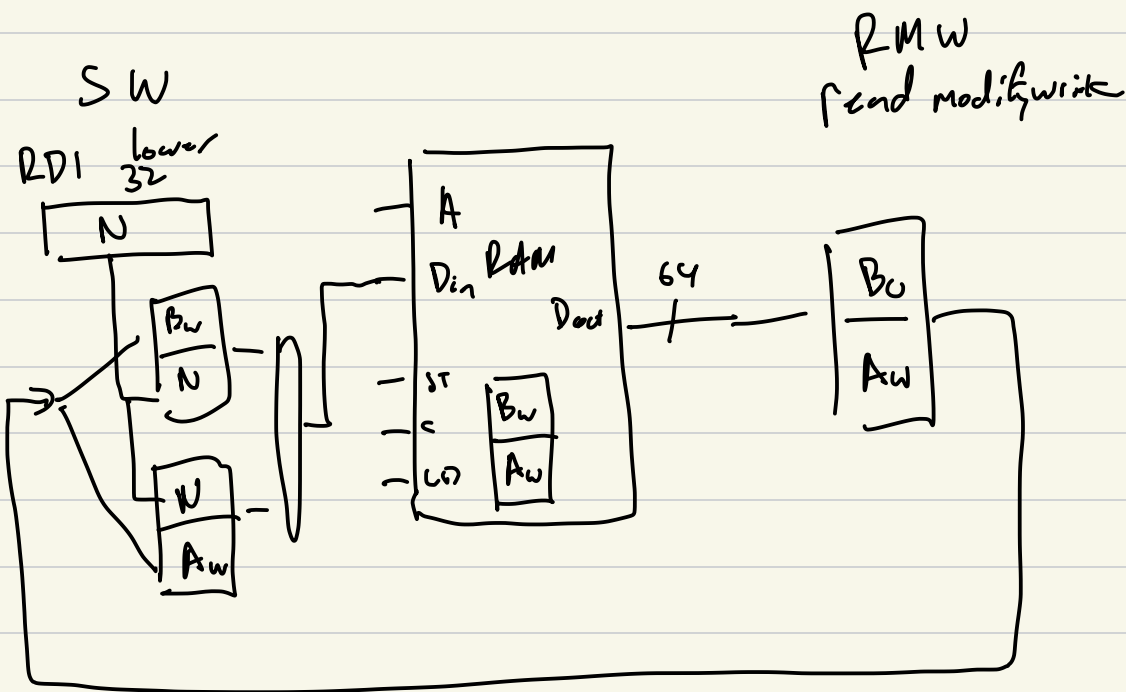
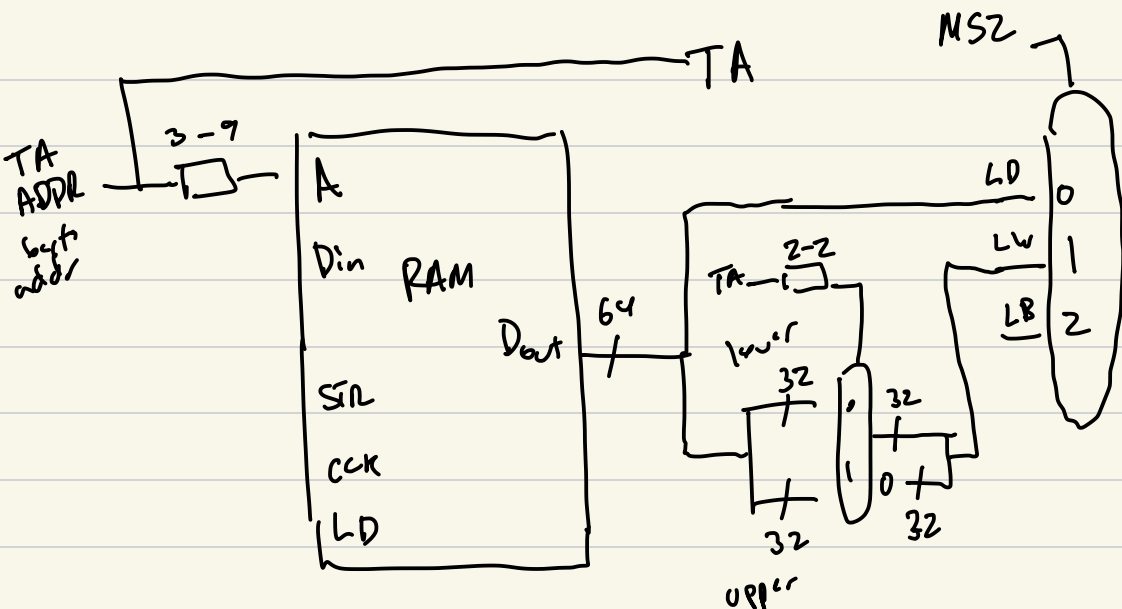


LD → MST=0 MLD=1  
 SD → MST=1 MLD=0

lw / sw (lb / sb)







SW details

