

Michael Masenheimer CSC 252 HW 2

2.1(i) la \$s4, bnstf # load bnstf
lw \$s4, 0(\$t4)

sub \$t0, \$s4, \$s2 # bnstf - atsf

sub \$t1, \$s1, \$s0 # csx - kcs

slt \$t2, \$t1, \$t0 # prev > prev

bne \$t2, \$zero, EXIT

la \$t3, \$t0

lw \$t3, \$t4

store bnst-atsf

EXIT:

rest of code

la \$s4, errie

lw \$s4, 0(\$t4)

2.1(ii) slt \$t0, \$s0, \$s4 # errie > kcs

slt \$t1, \$s4, \$s5 # errie < epsw

bne \$t1, \$zero, EXIT

bne \$t0, \$zero, EXIT

la \$t5, \$t6

lw \$t5, 0(\$t6)

kcs into epsw

EXIT:

rest of code

2.2(c)

.data

magic .word 0x55555555

.text

la \$t0, magic

load address of magic

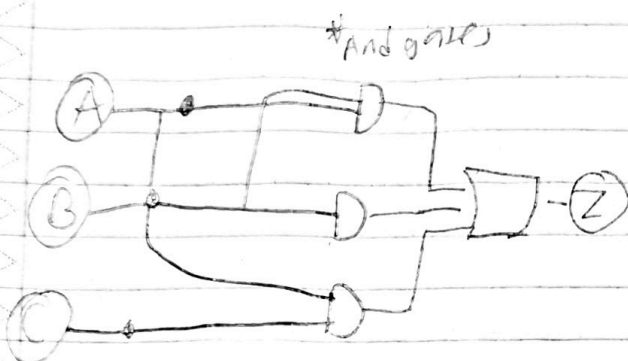
lw \$t0, 0(\$t0)

load magic into \$t0

and \$t0, \$s0, \$t0

apply the magic

2.3(d)



$$Z = (A \wedge B) \vee (A \wedge C) \vee (B \wedge C)$$

$$X = A'B'C' + A'BC + AB'C' + ABC$$

$$Y = A'B'C + A'BC' + ABC$$

2.4(d)

li \$t1, 1

li \$t0, 0

LOOP:

bge \$t0, \$s0, DONE # i < pow

sll \$s1, \$s1, 2 # prod *= 2

addi \$t0, \$t0, 1 # \$t0++

DONE:

rest of code