[#1.]

a not in could in mips

ALU would it impremented first Between its impremented in The Ish warn reason Beins row can Technically Jo it But reavises

XOR and add/Sub Which The ALU (ahdo, hehle Why its

a Pseudo instruction in mips.

S9t: Set greater Then is a Pseudo instruction in Mips

B. Sewence For ABS: SVA \$TD, \$TD, \$TD, \$TI # Sets Sibn Bit of TO TO TI

XOV \$TO, \$TO, \$TO, \$TI # Flip all Bits

Sub \$TO, \$TO, \$TI # Subtract to Set abs value it it

was hes you set Pos, if Pos it Stays

Positive.

S9T:

SIT \$TI, \$T2, \$T3, IF Y is greater

C. ABS: RTIPP Bewose 2

SG+: RTIPE as Well, Since its
The opposite of SIT.

日子

a. ox 141 = [20] in Decimal

6. C COAP

11, 11, 52 Y Z X

iht X = 10

iht Z = 0

iht Y = 0

While (X7Y) 3

X= X-1; z= z+1

7

1hSt. V (+ ons 10, h

- COUNTING this li instructions For \$11 and \$12

N.7 16

3. a

PC = 0x 0000 0000

12-PSS 0X 0002 0000

0000 000 L000000.

00 1 0

Brahines heeded =[]

- 1 is the raxinum aders for ohe Brahlh
instructions. So you (ah 1861h ox 000 2000
in Just 1 Brahlh.

- as a sid hote it also goes -17-1 is
To go backwards.

3 B. P(= 0x 0000 0000 112.055: 0x 0000 0000 Jumps heeded = []

- 128-1 alid -12-1 are The rax values an address can have within one Jump,

3 (. 26 61+5)26 = 101611 512P

Lanhot Jump 10 that ad. Pss Belouse pu will not reach that.

PC OXOCOU COCO

addicis OX FFFF FF ou

1 1 1 1 1 1

30.

pc: 0x 0000 0000 = in decimal advers 0x000200 0000 = in decimal 8 Bit 1 TYPP instruction: \[\frac{3}{2} \]

its exponential as 28-1 is sishificantis smaller Then ox 20000 is 13/072

6 x ____

36. bc: 0x 0000 0000

Jumps

3 F

- Resister addressins add operations add rd, 15, 14
- Immodiate addressins addi instruction addi 18, 15,1
- Buse addressins IN \$72,5 Load void instruction.
- PC nelative addicissins beaz \$To, StENd Lable
- PSCUDO DIPPT ADDIPSSING JUMP Instructions J End + Lable.