CS23/8 PSUNO instruction "Reul" instructions 9/13/16 Real instruction Machine cook Machine V mov \$5, \$6 AJJ \$7, \$8, \$9 or \$5, 46, \$0 Mochine cuk

if i= 50 S1 1 1 Set 1 While (1 = = 4) E 1 = i + 1 + 3while (B-Exp) E Exp You chech for ! (B-exp) -whileD: bnc (\$50, \$51, exit CEXPO addi \$50, \$50,1 jnc b_whileD Exit:

So Sy While Mar(i<K)

! (12k) => (12h)

-Whiles loge \$50, \$51, exit

inc \$50 (BGE)

BLT:

BAT

BAT

BAT

BZ

BEQ BNE SLT SLT;

bet \$7,\$8, exit

il (\$7<\$8) go to exit

50+ \$Rd, \$Rs, BR+

4

3l+1, 12, 17 3l+0 - cond if(42 < 37) 1 < 1

\$1 0 candition does not hold

lne \$1,30,

bet \$2,87, exitle -7 3LT [\$1] \$2, \$7 2 inst -7/Bea -7 lnc \$1,50, exit10 byt SLT Sct on Loss Thon beti > when you ore O Human compiler Ploying the role of assembler 0115 \$2 \$3

=> default ossume \$3 \geq 0

Vues m not hold ?

then correct

Constant

SLEI SI, ST, 20

Assume Jefaula

Fix il wrong

SLEI Stp, St1, 20

ABS \$5,\$6

Usc \$1 (\$at) of gove discussion

Ost con be used os

O'Second temporg

MIPS Instruction

7

Britton List of pseudor inst.

List of Real inst.

E List of Virectives)

all oddi

506 <u>516i</u>

MEPS 3 Furmots & Bomily

R Arith, Immeliate

Earlitional Branch
Load/Store

J Jump J Jol

Bronch (50mp) conditional un conditiona 1) BEQ BNE 少くて 2) J CJOR) **约**2 BEQ \$5,\$19,00t BER'SRI BRS Constant B is relative to pc 215-1 FUVWA B ov/ 100000 215 luctiwand EA 31,82,001 1000 000

8

B 1000000 BEQ \$1,82,88 2'5 Beach wsw5 Great Cor Loops if then Relocatolle (no red to tor use (vulen) 13 Limited J Tout , 26 words

Mem is divided into 16 segments 10) each of which is 226 words J con Jump to ony oddress in the segment JR \$5 PC - \$5 J 011 PCG f(ovt) pc = hours BUVA JR JR PC & SR