1-1sta teorica J. Porte 1 - Velie Compelin soores de Peule

D #50=A

#51=B

#52=C

ADDI \$50,\$300,10

ADDI \$51,\$300,-1

ADDI \$50,\$0,£

1001 \$50,83ero,3 # x=3 400 \$1,\$40,\$50 # to:2x 400 \$51,\$40,\$60 #51=4x (3)
50:X
51:y

ADDI \$50,\$ zero, 3 # x = 3

ADD \$10,\$50,\$50

ADD \$10,\$50,\$50

ADD \$10,\$10,\$10 xg

ADD \$51,\$40,\$80 #51=605x

1 # 50= # # 51= y

400

ADDI \$50, \$3000, 3 #x=3 SEL \$51,850,2 #y=X/4

\$52,51,50

#50=X

#51=Y

ADD 1 = \$50,8300,-1

SEL \$151,\$50,5

D ADDI \$150, \$3000,100
ADDI \$52, \$300,1 \$h=1=52

LVI \$10 ,0x0001 SW \$50 ,8(\$10) LW \$11 ,8 (\$10) A00 \$11,\$11 ,\$52 SW \$11 ,12(\$10) # 50-6 # 51-1c. # 53-1 4001 \$51,\$300,0 4001 \$53,\$3000,4 LUI \$11, 0x1001 LW \$11, 4 (\$10) 400 \$50,\$51,\$11

(9) HSO=h HSI=IC HS3=1 ADDI SISI, \$1,900,0 ADDI \$151, \$1,900,0 LUI \$10,000 LW \$11,4(\$10) ADD \$150,851,\$11 SW \$50,12(\$10)

(9)
LUI \$10,000000
LW \$10, (\$100)

4001 \$10, \$110, 4

LW \$1 \$1, (\$140)

4006 \$1+2, \$140

SW \$1 \$12, (\$140)

40VE \$1+2, \$40 SW \$1+2, (\$40) MONE \$1+3, \$1+1 SW \$1+2, (\$40) #50=0 #51-1 ADDI #50, \$3900,0 ADDI #51, \$300,10

1001 \$ 50, \$ 50, L 6NE \$ 50 \$ 51 1000 Otest:

LUI \$ +0,0x1001

LW \$ 51,0(\$+0)

SC+1 \$ \$52,\$51,0 #Nagaline 20

\$30for L

· Data

Value: . mord 10

TEMP: . WORD O FLAG: . WORD O

ask.

· tex+

LW \$10, TEMP

ADDI 81+1, \$ jero, 30 4001 \$1 ta , \$1300 , 50

6LE B+1 , B+0 , CHECA_LIMHE_ SUPERIOR

> FLAG_ZERO

Checa-Limite - Superior:

BLE \$ to, \$+2, FLAG-UM

FLAG-UM:

4001 \$13,8 mo,L

SW 913, FLAG

J UM

FLAG-ZENO.

SW # 2000, FLAG

FIM :

· DATA

ARRAY & = WORD 5121911,9,3,816 14,10

o text

MAIN;

LUI 8 +0, 00000

4001 11, 8300, 100 to tamenho = 100

4001 \$1+2, \$1 pro, 1 * Sucep=1

LOOP-EXTERNOS

LU \$13,0 LI SHYII

LOOP_INTERNOS

to two on I fact - I whis Compression

LW 8/5, (8/10)

LW \$16, 6(8+0)

BG+ 8+5, 8+6, SWAP

ADDI \$ 10, \$10,4

4001 St 4 , 9+4, 1

BC+ \$1 +4, 8+1, LOOP_INTERVO

(11)

J FM-LOOP- INTERNO

SWAPS

SW & 16,6+01

Su 8175, 7(8+0)

L1 8/13, L

4001 \$108t0,4

4001 \$ 44 1844, L

66+ 8+4 151, LOOD-14END

FM-LOOP-INTERNO.

6692 \$13, LOOP-EXTERNO

FIM -LOOP- EXTERNO:

(3)

5 . DAHA PAR: VALUE: . WORD 10 MUL \$ 51, 8+0. 11+2 6 XET+ MUL 814, \$51,851 # +4=+4 MAIN: LUI \$10, 0 X1001 MUL \$51, 812, 812 4001 St1, 8 yero, 2 MUL SITS 18151, 18+2 15=+3 Lw 8/t2 1 (10) # +2=x ADD 81+6, 8+2, 8+2 MUL \$1+9 , \$1+6 , \$1+6 # 2x=1979 CONFERE PARIDADE ; ADD \$51 18 14. 113 DIV Ata St! ADD \$51,852 1859 # SJ- some de tudo MEHI 813 GEPZ 813, PAR IMPAR: D IMPAR MUL \$51, 8+2, 8+2 MUL 9/15, DSI, \$12 4+3 MUL \$ 51, \$12. \$ +2 MU 8+4 181, 851 MUL Sty, Sty, Sty, Starts 506 \$152 , \$1+3, \$1+4 ADD(8/52,152

600000 x:.uoro 0 yp.uoen 0

MAIN.

o text

LW \$160, X

86+2 \$1+0, MAIORD

ADDI \$1+1 18+0,=L

> ESCREVEY

MAIDR O?

MUCT \$12,810,810

MUL \$12,810,810

AODI \$11,812,L

EXPERE y:

· text

MAIN:

LA \$10, FIBONACCI LI \$11, 100 LI \$172, 1 LI \$1+31L

SW \$1+2 (\$1+0) SW \$1+31(\$+0) ADDI \$1+0, \$1+0.8 LI\$1+1,2 LOOP:

ADDI \$14,8+4,1 400 8+5,8+2,#3

SW \$15, (40)
ADDI \$10, \$10, 4

MOVE \$113, \$15

MOVE \$113, \$15

61+ #th, 8th, 1000

(8)

e DAHA

NUMERO: o MOPO O

FLAG ; wong

· text

MAIN:

LW \$ +0, NUMERO

LI \$11,50

LI 41+3,100

LI 8/+3, 150

61 81+4 ,000

SC+ 4+5, 8+0, 8+1

SL+ \$1+6, 81+0, \$1+0

SL+ SI12, NtO 14+3

SL+ 8+8,9+4, #+0

on \$149, 8+5, \$16

on 4 110, 419, 4+8

OR \$111 Atg , \$110

GEBS 8411, ALAGZENO

[1 # +12, 11 LA

SW \$+12, FLAG

FLAGZERO:

SW & ZERO, FLAG

· DATA · worn 0 · 4001) C: - NOUI) MOI) . . WORD O

o text MAIN: LW SITO, A LW \$141,6 LW 8/taic BL + 8 +0, #1, Checad Checa3: 3 SET_MED

CHECA): BL+ 4+1, 4+2, SET-MED BG+ \$1 to, +2, SEX_ MED SET-MED BG+ \$10, 81t1, CHECA3 Bb+ \$1+1, 8+2, SEY-MED BL+ 91+0, 8+2 BE+-MEN

CHECA)

J SET-MED SET_NED: SW \$10, MED

V/ · DATA ARRAY . WORD 011,2,3 * text LUI \$ to, 0 > 1001 LOOP. LW \$1+1, (8+0) ADDI \$1+0, \$1+0,4 1, Ct, 2118 1004 101) \$51, 911 1951 609 \$173,99, FM J 1000 FIM:

CALCULOS (VAN+16)

& INST SPEED UP 11.24% 4-ALU - 0,571°_ 25619 - 0.143° L. MEM DESUID - 0128.10

CPI MEDIO = 300159 + 40014+ 500128 = 3.69 6,84 10,364 358:10,20

+.6 : 3167 . 7 . 10 = 256,9 US

CALCULO V NOWA

9115+ CP1 300,69 + 400.11 6 - ALU - 01683° 1-MEM QILLJO +5.0:33= 3.55

9 - DEPAID = 01771, +E = 3155 .9.10= 319,505

ANT 160

1NS+ 2

CPI = 300157 + 40014 + 200128 = 2,8,3

ALU 4 -01571

te = 7 - 2,83010 = 198,1

DEJU L -0114,10

MEN 2 - 01081

NOVO

1 NST 9

CP1 = 3.00,69 + 4.00,11 + 200,02 = 289

ALU 6 - 0,69

te = 9. 289.10 : 300/

DESV 1 - 01/1

260,1 = 113/X 50:

ME M 2 - 012)

198.1

RESULTADO S. WORD O

etGX+

· 6 LOGL MAN

MAIU

11 BlAD, OX 1001 LISIAI, 10

DAL SOMA_VETOR

MOVE \$ to, \$10

LI \$100,10

SOMA_VETOR .

LI \$1 to 0 L1 81+1, D

1000

MOVE \$1+2,840 ANDI St3, Sto. 6692 843, PAR

IMPAR:

ADDU #14 1941 1812

ADD BAL , H+1,8+1

5 prox

PAR:

SLL SItJ, Atd, L

506 8144, 142, I

ADD & +1,841,044

PROX.

ADDI & AO ALO, 4

ADDI \$40, \$40,L

ENE \$1+0, \$111, LOOP

SW \$1+1, BESULTADO

MOVE BIVO, 841

JR BRA

. DATA

PESCHADO: . WODO O

· tet

MAIN:

LI \$1 VO. 5

Move sito, sivo

LI SLVOIS

LOVE 8+1 , \$ VO

SAL POTENCIA

ove, ctu swom

SW 8172, RESULTADO

potencia: LI SIta, 1

LOOP:

GEPZ Ati, Finlow

OKBICHAI CHIS TON

5061 BITI, BITI, I

2 6000

FIMLOOP :

MOVE SI VO, 8+2

JR HRA

Parte 2

ODATA

ARRAY: -WORD 0,000...

· text

· 6LOBL MAIN

MAIN .

LA 81 40, ARPAY

LI 5141,05

JAC CRIAVETOR

MOVE \$11,\$10

DAL SOMA

MOVE Qta, Blue

LI SVO,5

L1800,10

MOVE SHO, QUO

L1 31 VO,5

PAR: CPIAVETOR. MUL A +4, H+2, BTJ L1 8 +3,30 SLL SI+S, \$72 L SHU \$ 14, \$1 41,8143 ADD BITS, 1115 1112 ADDI Sts, Bts, 1 MOVZ A A1, 81+3, 81+4 400 8 +4 ilty, 8+5 L18to,0 Su \$1+4, (+1) MOVE ATIPTO Lowpleton,0 PROX VET : ADDIV \$ +1 . Str. 4 MOVE B+2 1840 4001 \$ 40, \$40, 1 ANDI Ats 1883, A 6692 8+3 IPAR SLYU 81+3 , 81+0, \$1AL Guez 9/+3, Loopuston IMPAR: MULT 9144, 112, 112 DR BRA SW #+4, (\$+1)

SOMA:

LI \$1+2.0

LOOP SOMA:

LW \$1+3. (\$140)

AND \$1+3. (\$140)

AND \$1+3. (\$141, \$141, -1

SLOVE \$141, \$141, -1

GNEZ \$1+4, \$100 SOMA

MOVE \$1 VO, \$1+2

TR \$1. RA

3 PROXVET

- · LW ISI, NUM (\$150) Recelja lecturer da memoria
- Unidade de memorio: 6 ucureles os enclireços de memoria, adem de receljos a lestura ou escrita
- Contrale: O contrale emeia rinais p/ melias beture en escrita
- · SW \$51, NUM (\$50) Recilier a escrito de 31 ma memoria Unidade de memoria : fi descrita anteriorment Combrate : De descrito anteriorment
- ESI, ESI, PUCOS Comparcecció entre registractures «

Umelado de combrab: Decide quel instruccio esculor com bare no resultado

Control. Debourne quel instrucció sera erecutado

· ADD \$ 51, \$52,\$53 - Some entre realores et so es 3 a 53 a roselback comagnació en 51

Unichel bogic Andmedic: Soma, Sulbracao, deresao, mullibleaux s

Contrate: Devel qual operación de CLA

3

E LW \$51, VUM(\$5) - 4+ 1+2+4 = 11

SW \$1 \$1 , VUM(\$5) - 4+ 1+2+4 + 1 = 12

BEG \$51, \$52, PLOS - 4+1+2+1=8

AOD \$51, \$52, \$53 = 7+1+2=1

6 W=5 MULTICICE = 0,2305 + 0,1104 SW=4 0,4903 + 0,1602 + 4LU=3 0,00302 = 3,37 < 1005 0=2 0=2 0=3

100/3,37-29,7

Muluarlo e 2917 reges meis respecte

(1) Introvation Felces

(1) Introvation Decoch

Ex - Execution

MEM - Memory

WG - Writ Back

