i

SumaElenato:

mod1[i][j] = @ mat1+ 4(i*N+j) = @ mat1+ 4iN+j mod 2[i][j]=@mod2+4(i*M+j)=@mod2+4iM+j

puelel 1. elg morel / exp, /ely

morel 8(1.elsp), 1.eox # 1.eox = i

morel 12(1, days), 1. ex # 1. ex = 4 ; (1. ex < < 2 (aritmatic))

sall \$2,7.000 @ Ret

leal (, 1, 20x, 8), Y. adx # xedx = &(i.8)

8 guld 1. 20x, 1. 2dx # 1.ed = i*8-i

12 leal (xeax, x.eox5), xeax * x.cox = i+i*4 @met 2+ 20i+4.9. morel mot? (1.0ex, 1.20x, 4), 1.20x # 1.00x = a mot 2+ 4(i+i+4)+4.j= matz[i][1] addl mat1 (10ex, 1.edx, 4), 1. ed # mat2[i][j] = @mat1+ 4.j+4(i*8-i) 1. eax += wat 1[i][g] @mai 1+ 28 i + 4.1

mord 1. elsp 7. esp

pape 1. abj

a) @mat1+ 28 i + 4. j = @ mat1+ 4(7i+j) / @ mat2 + 20i+4. j = @mat2 + 4(5i+j)

N=7 ; M=5

6) 13 intruccione establique

C) 13 instrucciones dinamiques

9 accessos a mandecia

e) 0.8 instruccions/ tide -> no accés men. // 0.5 instruccions/ tides - Accés men. 9 occessor memoria (inst.)

13-9= 4 insta. no accordor a man.

0.8 = 1.25 didee / instruccione 1 = 2 cicles/instrucciony

Cicles totales = 4y. 1.25 c/x + 9j. 2c/x = 23 cicls

{) No occess a _ 1 = 1.25 c/i

men. - 1 = 1 = 1.67c/i

Cicles totale = 4x.1.25c/x + 9x . 1.67c/x= = 20 cides

Guarry = 20 = 0.87

19) typedel atomot { int it; clor (2[30]) inti3;

typedof atreet ? x tobla[100] int Mi

a) 5x:

tabla [0] 82: talla [99] 4000 4004 4004 Bytex

3 =x; int F(2x *12, inty);

int examen (e, 2 * p1, but * x, but 4)

¿ int is ji sx aux > examen: 6

-40 aux 1.00p ret

C) notwer (* X+ aux. i3);

morel 12 (1. dop), 1. eax # 1.00x + Bx morel (7. eax), 7. eax # *X addl-4(1, ely), reax # aux. i3 -40+36=-4

e) i= j*y;

moral 16 (1.elg), 1.eax # neax = y morel -44(1. elsp), 1. elx #1. ex= } inel 1.00x, 1.00x # 2 ccx= j * 4 morel / exx 1 -48 (/ dep) # i= j * y

d) aux. i1= F(&(*p1) tabla[[],y);

pueled 16(1.elp) # 4 morel 8(1. elg), 1. eax # 1. eax = M morel -44(1, dop), 1, elax # 1, dox = } inul \$40, % elsx # x elsx = j * 40

addl /lelex, /leax # p1+talola []] # & (*p1) tabla[3]

puebl 1.eax morel 1.00x, -40(4.0g) # sux. i1 = F(&(9/1) tolas(1), y);

oddl \$8, 7. com

```
() aux.cz[i]= aux.cz[23];
                                         -40+4+23=-13
         mordo -13(1.dep), 1.al # 1.al = aux. [22 [23]
         leal -40 (v. elgs). " elx # 1.exx = & oux
                               # 1.08x = & aux +4
         addl $4. 1. ecx
        addl -48(r.elop), 1.ecx # 1.ecx = &aux +4+i
        more 1. al, (1. ex) # aux. c2[i] - aux. c2[23]
  g) for (i=0; (i<y) fk (i<(*p1).m); i=1+5)
         (*p1).tolola[i].i1 = (*p1).tolola[i].i3+i)
                             # i=0
      morel $0, 1.eax
      moral 8(1.26p), 1. ex # 1.20x = M
 for: compl 16(1, elg), 1. eax # Salta ei 1 > 4
     jge endfor
     coupl 4000 (100x), 1.00x # Salta ei 1 > (*p.1). m
     jage andfor
     imul $40, 1.eax, 1.edx # 1.edx = i *40
     addl 1.ecx, 1.edx # 1.edx = p1 + i *40
     mobil 1. edx, 7. esi # 1. esi = p1+ i + 40 = p1. talla[i]
     mod 36 (10si), 10si # 1/osi = M. tabla [i] i3
                          # /. eei = p1. tabla [i7. i3+i
    addl /eax, 1. eri
    morel / ex ( / edx) # pr. tabla[i] i1=p1.tabla[i].i3+i
    addl $5, %eax # i+=5
    Jung for
                       morel -40(1. dep) 1/1. eax # 1. eax = aux . it
endfor:
(aux i1 != y) if: empl 16(1. elep), 1. cax # salta & aux i1 == y
                      je else.
                       morel -4 (1.26p), 1.0cx # 1.ex= aux. i3]
     aux 13=1;
                       march 48(1.def), 1 ex # aux. i3= i
                       grip and
                   Obe: morel -44(v. obp.), 1. cx # aux. i3 = j
                                      more $0, 1. eax # i=0
 i) i=01
   While (aux. CZ[i] != !!) {
                                      leal -40(1.elgs), 7.ex # 1.ex = & aux
                                      mond 4(1,ecx, 7,eax), 7.ecx # 1.ecx = aux. C2[i]
     aux. C2[i]= '#';
                                                          # Salta & aux C?[i] == !!
                                While: empl $1.1, 1. eex
     1++;
                                      je endudrile
                                                          # aux. c2[i]= '#'
                                     morel '#', 1.00x
                                                          # 1++
                                     ind 1. cax
```

adulik: