

AC-PROBLEMES-2.pdf



Arnau_FIB



Arquitectura de Computadores



2º Grado en Ingeniería Informática



**Facultad de Informática de Barcelona (FIB)
Universidad Politécnica de Catalunya**



Descarga la APP de Wuolah.
Ya disponible para el móvil y la tablet.



Estudiar sin publi es posible.

Compra Wuolah Coins y que nada te distraiga durante el estudio.



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a)

elem :



b)

$$@S + 44i + 4j + 4$$

$$K=4 \quad 1\text{elem} \rightarrow 44B$$

c)

$s \rightarrow \%ebx \quad i \rightarrow \%esi \quad j \rightarrow \%edi \quad x \rightarrow \%dl$

`leal (%ebx, %edi, 4), %eax`

`imul $44, %esi, %ecx`

$$S[i] = @S + 44i$$

~~`movb 4(%eax, %ecx), %dl`~~

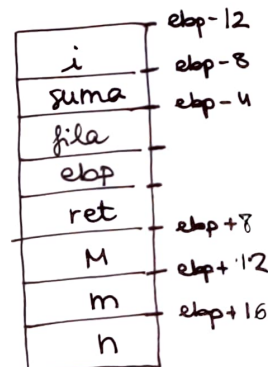
~~`movl 4(%eax, %ecx), %edx`~~

`imul $44, 4(%eax, %ecx), %edx`

`movb (%ebx, %edx), %dl`

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a)



calcula:

`pushl %ebp`

`movl %esp, %ebp`

`addl $-12, %ebp`

`pushl %ebx,`

`pushl %esi`

~~`pushl %edi`~~

`movl $0, -8(%ebp)`

`movl $0, -4(%ebp)`

`movl 12(%ebp), %esi`

for: `cmp 16(%ebp), %esi`

`jge ffor`

`leal -4(%ebp), %ebx`

`pushl %ebx`

`movl 8(%ebp), %ebx`

`leal (ebx, esi, 4), %ebx`

`imul $40, -4(%ebp), %ecx`

`pushl (ecx, %ebx)`

`call Normaliza`

`addl %eax, -8(%ebp)`

`incl %esi`

`jmp for`

$$M[file][i] = @M + file \cdot 10 \cdot 4 + i \cdot 4$$

ffor: `movl -8(%ebp), %eax`

`incl %eax`

`popl %esi`

`popl %ebx`

`movl %ebp, %esp`

`popl %ebp`

`ret`



WUOLAH

(14)

d[100]	-404 ebp
aux	4 ebp
ebp	
ret	
a	8 ebp
@ b	12 ebp
c	16 ebp

a) leal -4(ebp), %eax
 pushl %eax
 leal -404(ebp), %eax
 pushl %eax
 pushl \$0
 call examen
 addl \$12, %esp

c) move \$0, -4(ebp)

for: cmpl \$100, -4(ebp)

jge hfor

move -4(ebp), eax

move -404(ebp, eax, 4), ecx #d(aux)

move 12(ebp), edx #b

move ecx, (edx, eax, 4)

incl -4(ebp)

jmp for

d) pushl 16(ebp)
 pushl 12(ebp)
 pushl 8(ebp)
 call examen
 addl \$12, %esp