Laborator 0×02

- 1. Operation orithetice 2:
 - DIV
- 2. Salturi modiționate of nalturi condiționate
- 3. Jamelana structurilor repetitive
- 4. Instructiones LOOP
- 5. Jablouri unidmensionale

Operation aritmetice

mul on dir on

Uls mel of die on a destinatie of a musicipalità

mul on

(eds, eas) = eas * on

unde eds este completat and se depareste 2"2

2 32 · edx + eax

ear = ear * or

Exemple

mor \$ 9, 1. eax } 1. eax = 9 * 1. elx

mul 1. eax = 1 eax + 1 eax

dir on

(+ idx + iox) = + iox / on

instil

instil

institut

in

```
Exemple de reogram
```

. data

x: long 30

y:. long 7

pood: . man 4

cot: . you h

rest: . mon 4

. test

. global main

main :

mor x, 1 lax

mor y, 1. dr

mul 1. dox // 1. cox : = 1. cox * 1. dox = x * y

mor 1. eas, produs

mor x, 1/ 10x

dir 1. ela // (1. eda, 1. eoa) := 1. eoax / 1. ela = +/y

mor 1 ids, rest

mor 1 cos, cot

tin t

mov \$ 1, 1. cax

nov 50, 1. da

Salturi ne worditionate 3:

Solturi neurolitionate

jon et - sou la étideta et

Solturi condiționate

- evoluate prin comp on 2, on 1

< jl t > jg t

< jle it > jge it

== je d

! = jne et

ung 1. eas, 1. els

jle et

// 1. cbx & 1. cox

Exemple de peogram

. dota

x:. long 5 y: long 8 str 1:. aniz " x < y \n" str 2: . oniz " 2 > y \n"

. text

. global main

main:

mor 2, 1. cax

mor y, it da

if (els Dess)

Juny 1. was, 1. els

l jg et a gis 1 jun et afis 2

et_ afis 1:

mor \$1, 1 dx

mor I stil, I eez

mor S7, 1. cols

int \$ 0 + 8 0

jmn et-exit

et_ afis 2:

\$ 4, 1. cax

\$1, 1 da

mor I str 2, 1 ees

mor \$8, 1. w/s

int \$ 0 + 8 0

t- sat:

mor \$ 1, 1. eax

mor \$0, 1. els

Simulana studenter

Jol:

mor \$0, 1. erx # pe port de "i"
mor \$0, 1. erx

et - for :

ung 1. erx, n

je et exit

add 1 ers, 1 eas

odd \$1, 1 ecx 11 im 1 ecx

jan et for

et_ exit

mor \$1, 1 cax

mor 50, 1. els

Intructiones LOOP

- lucreagà en reg 1 eex prin de cumentarea lui
mov \$10, 1. eex

et - for :

loon it - for

verifice dans 1 eeu == 0, zi dans da,
merge la lima umatvare
altfel
de crementeogé 1 eeu

rou la it-fr

Tallorni unidmensionale de date - perten ûrtregi -

15 | 27 | 3 | 11 | 17 | 5

- elementele sunt liniar arejote in memorie

- v reprezentà un nume pt. odresa de inaput

```
long v [6]
I v + h + 0 I v + h + 2
  a(b, c, d) (=) b+ c + d + a
                               lepreste in great
                                   (mai ales la vertori)
       (b, c, d) dimensionea
  lea v, 1 coli
(1 edi, 1 eex, 4)

adresa

vertoului

re incurrenteze

la fierare pas
Dedorcus in menorie
    v: long 15, 27, 3, 11, 17, 5
   Suma dementelor dintr-un array
    for ( + ex = 0; + ex & n; + ex ++)
       1 / eax + = v [ // exx ]
```

. dota

v:. long 10, 15, 30
n:. long 3

. text

. global main

main

lea v, 1. idi

11 1. edi retine adresa de magnet a array-ului
mor \$0, 1. ex

mor \$0, 1 cox

d- for:

unp tes, n

je d-mit

mor (ted, tess, 1), telx

odd 1. cha, 1. cax

ine 1. ex

jon et-for

t- nit:

mor \$1, 1. was

mor \$ 0, 1. ela