

# Trabajo Práctico Especial

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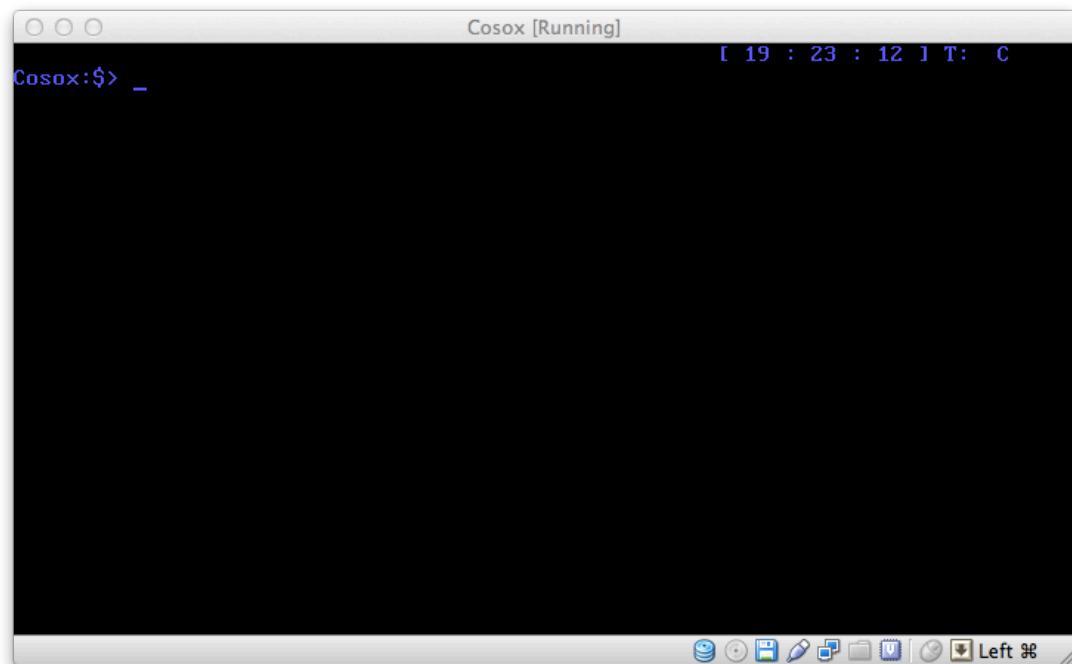
Arquitectura de Computadoras

Manual de Usuario

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**Primer Cuatrimestre 2013**

## *Pantalla de inicio:*

La primera pantalla al iniciar el sistema:

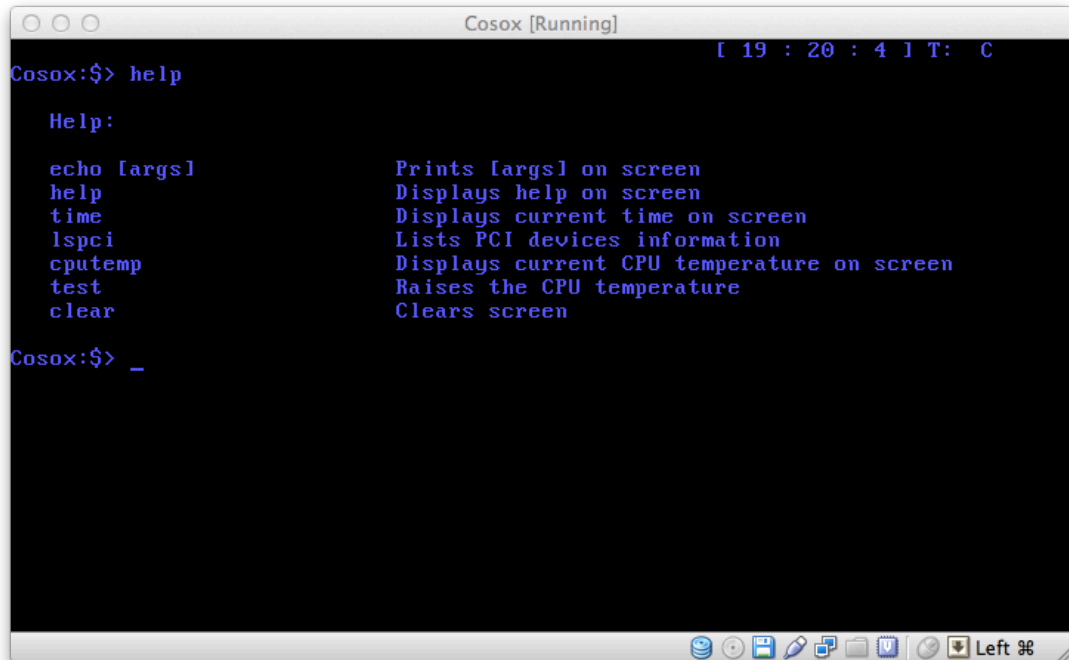


Desde esta pantalla se corren todos los comandos, los cuales están detallados a continuación.

## Comandos disponibles

### *Help:*

El comando help brinda en pantalla el siguiente menú con los comandos disponibles:



```
Cosox [Running] [ 19 : 20 : 4 ] T: C
Cosox:$> help

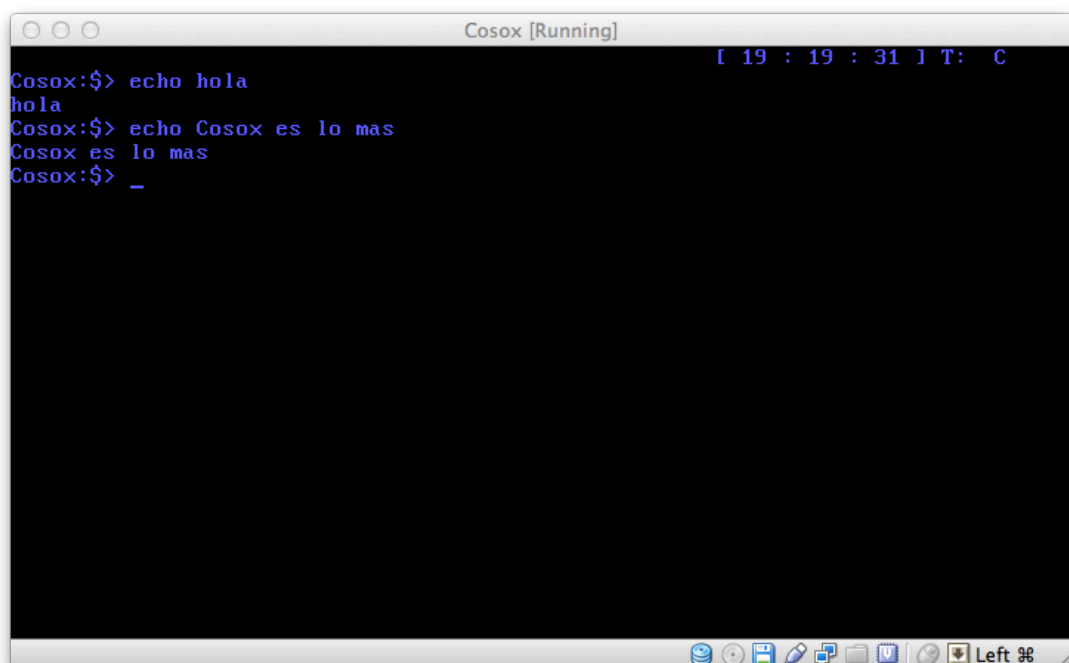
Help:

echo [args]          Prints [args] on screen
help                 Displays help on screen
time                 Displays current time on screen
lspci                 Lists PCI devices information
cputemp               Displays current CPU temperature on screen
test                  Raises the CPU temperature
clear                 Clears screen

Cosox:$> _
```

### *Echo:*

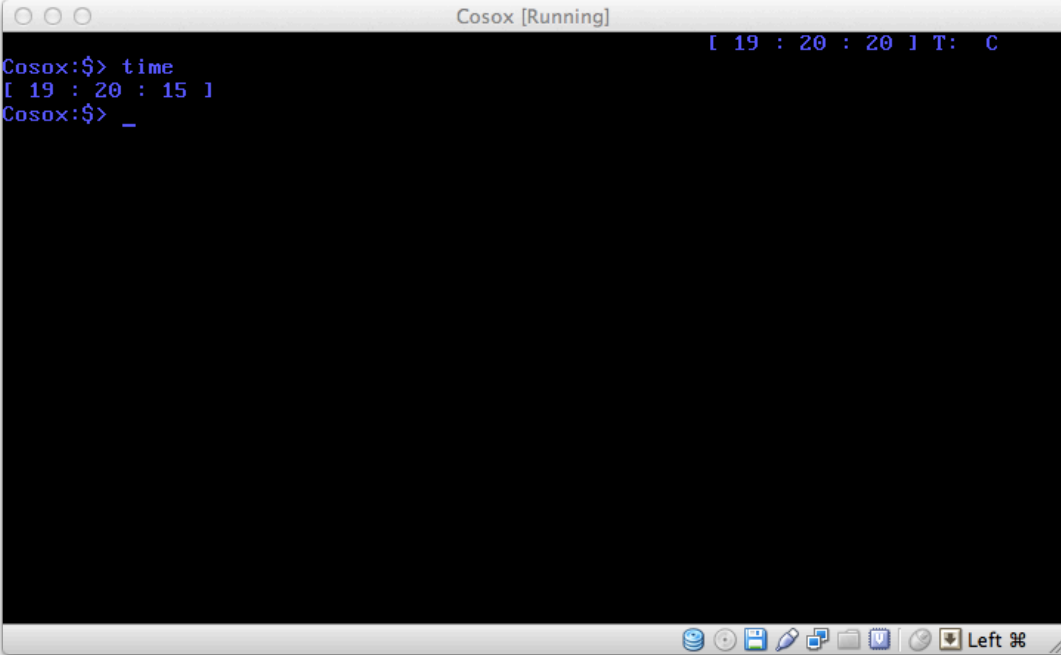
El comando echo [args] funciona tal como el comando echo de Linux, imprime args en pantalla:



```
Cosox [Running] [ 19 : 19 : 31 ] T: C
Cosox:$> echo hola
hola
Cosox:$> echo Cosox es lo mas
Cosox es lo mas
Cosox:$> _
```

## *Time:*

Brinda la hora en pantalla:

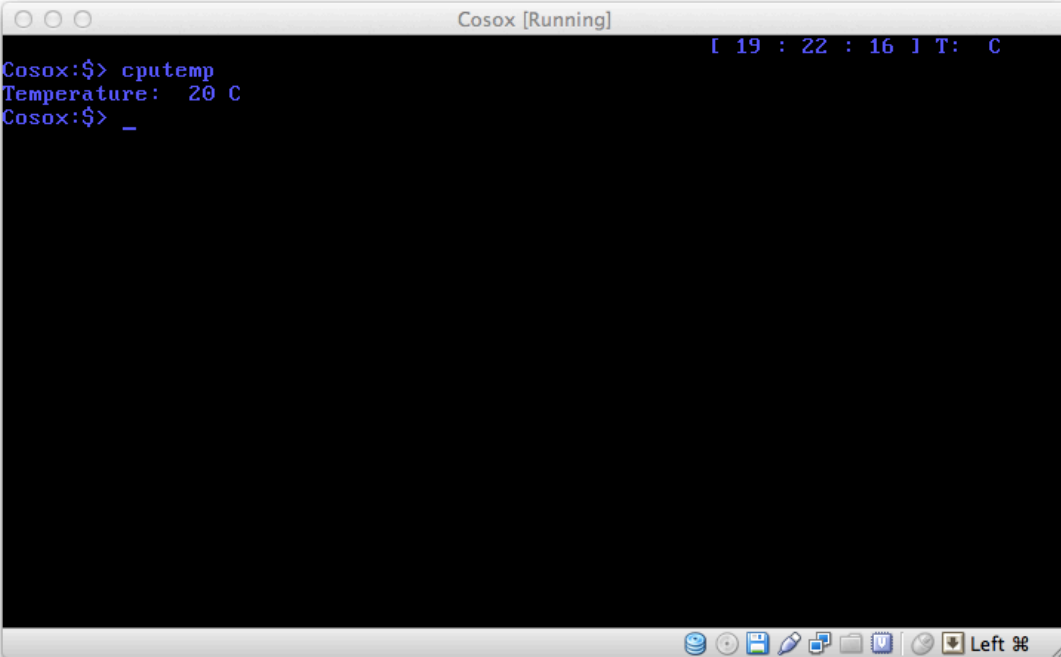


```
Cosox [Running] [ 19 : 20 : 20 ] T: C
Cosox:$> time
[ 19 : 20 : 15 ]
Cosox:$> _
```

The screenshot shows a terminal window titled "Cosox [Running]". The prompt is "Cosox:\$>". The user has entered the command "time". The output shows the time as "[ 19 : 20 : 15 ]". The prompt is now "Cosox:\$> \_". The window has a standard macOS-style title bar with three buttons (red, yellow, green) on the left. The bottom of the window shows a dock with various icons and a status bar with the text "Left %".

## *Cputemp:*

Muestra la temperatura del CPU:

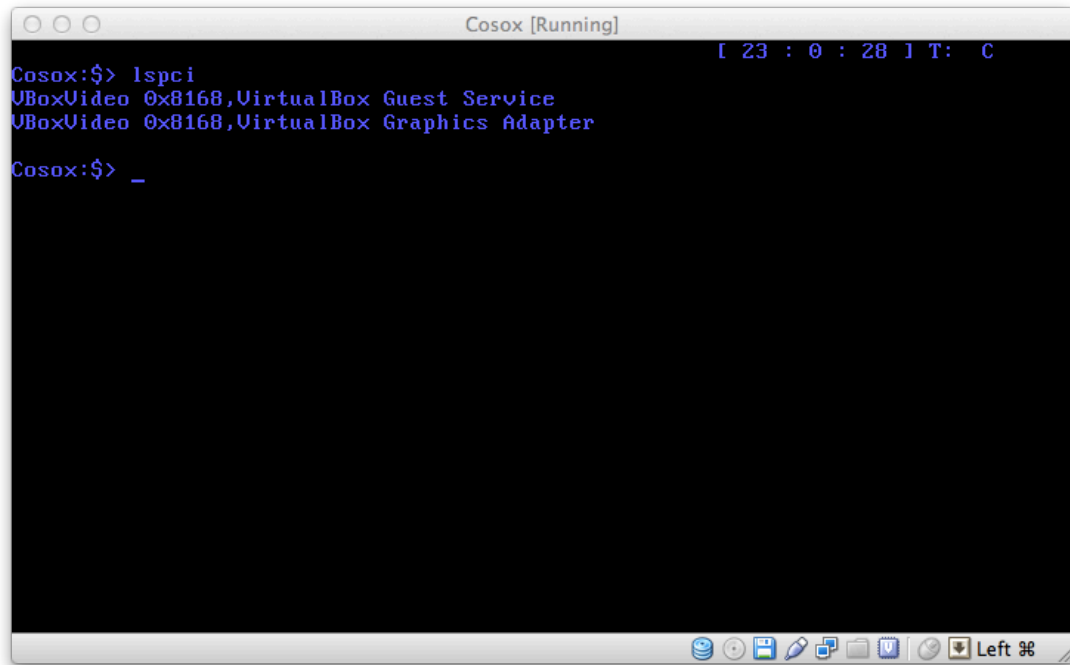


```
Cosox [Running] [ 19 : 22 : 16 ] T: C
Cosox:$> cputemp
Temperature: 20 C
Cosox:$> _
```

The screenshot shows a terminal window titled "Cosox [Running]". The prompt is "Cosox:\$>". The user has entered the command "cputemp". The output shows the CPU temperature as "Temperature: 20 C". The prompt is now "Cosox:\$> \_". The window has a standard macOS-style title bar with three buttons (red, yellow, green) on the left. The bottom of the window shows a dock with various icons and a status bar with the text "Left %".

## *Lspci:*

Lista los dispositivos PCI conectados:



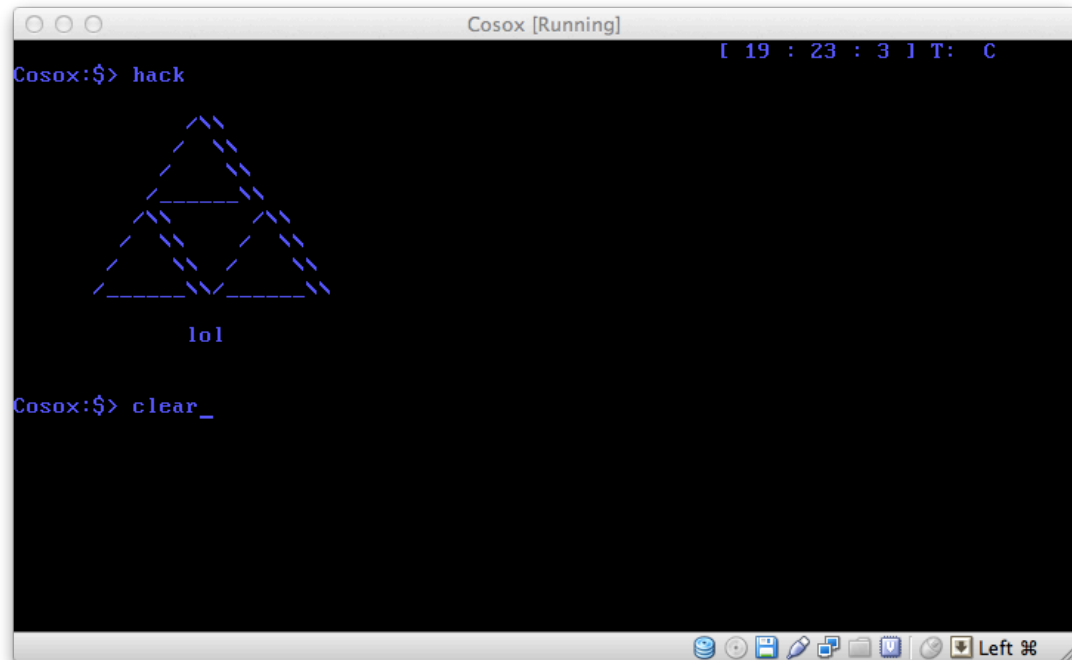
```
Cosox [Running] [ 23 : 0 : 28 ] T: C
Cosox:$> lspci
VBoxVideo 0x8168,VirtualBox Guest Service
VBoxVideo 0x8168,VirtualBox Graphics Adapter
Cosox:$> _
```

## *Test:*

Rutina para probar el display de temperatura. Para esto implementamos una función que calcula los números primos hasta 131.000.

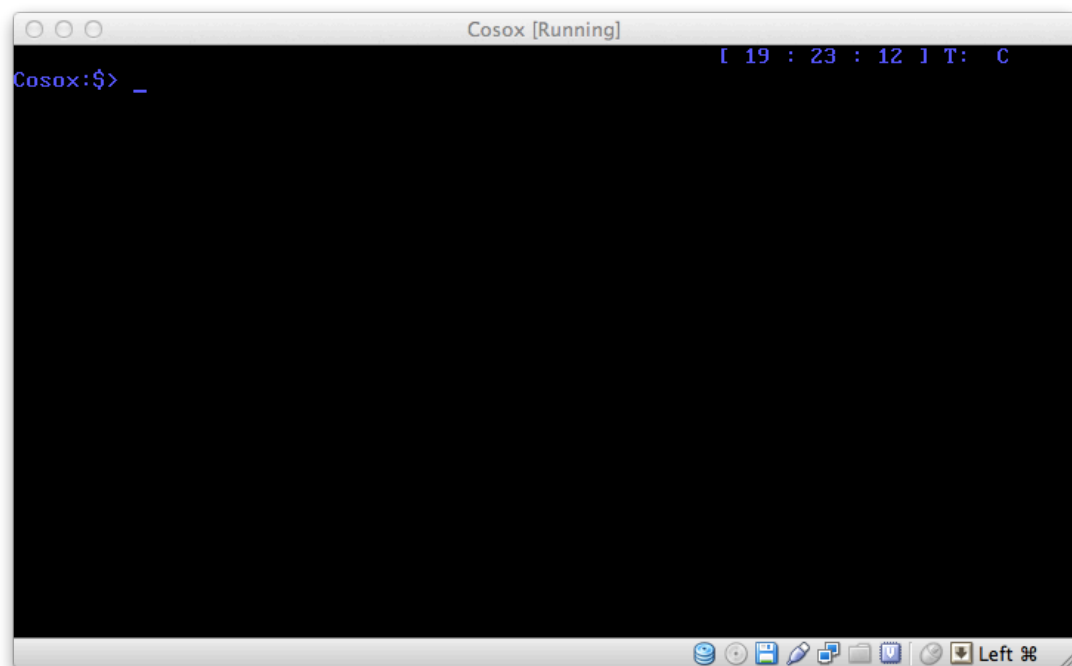
## *Clear:*

Borra la pantalla:



```
Cosox [Running] [ 19 : 23 : 3 ] T: C
Cosox:$> hack
      /\
     /\
    /\
   /\
  /\
 /\
/\
lol

Cosox:$> clear_
```



```
Cosox [Running] [ 19 : 23 : 12 ] T: C
Cosox:$> _
```