

Computer Systems – Activities 1

# UD 02. FUNCTIONAL ELEMENTS OF A COMPUTER



Computer Systems  
CFGs DAW

Sergio García / Alfredo Oltra

[sergio.garcia@ceedcv.es](mailto:sergio.garcia@ceedcv.es)

[alfredo.oltra@ceedcv.es](mailto:alfredo.oltra@ceedcv.es)

2022/2023

Versión:220601.1144

## Licencia



**Reconocimiento - NoComercial - CompartirIgual (by-nc-sa):** No se permite un uso comercial de la obra original ni de las posibles obras derivadas, la distribución de las cuales se debe hacer con una licencia igual a la que regula la obra original.

## Nomenclatura

A lo largo de este tema se utilizarán distintos símbolos para distinguir elementos importantes dentro del contenido. Estos símbolos son:



Importante



Atención



Interesante

## UD02. FUNCTIONAL ELEMENTS OF A COMPUTER

### Activities-1

**(Exercise 1)**

Investigate the “Harvard modified architecture”.

You can obtain information in

[https://en.wikipedia.org/wiki/Modified\\_Harvard\\_architecture](https://en.wikipedia.org/wiki/Modified_Harvard_architecture)

Post the main differences with “Von Neumann architecture” in the forum and discuss them with your classmates.

**(Exercise 2)**

Summarize how “Von Neumann architecture” works.

**(Exercise 3)**

Summarize the instruction cycle.

**(Exercise 4)**

Try to find 2 samples of CISC CPUs and 2 samples of RISC CPUs.

Share them in the forum and discuss them with your classmates.

**(Exercise 5)**

Follow this tutorial <https://sites.google.com/site/kotukotuzimiti/> in order to understand how a 2 bit fictitious computer works. Share your solutions and ask your doubts using forum.