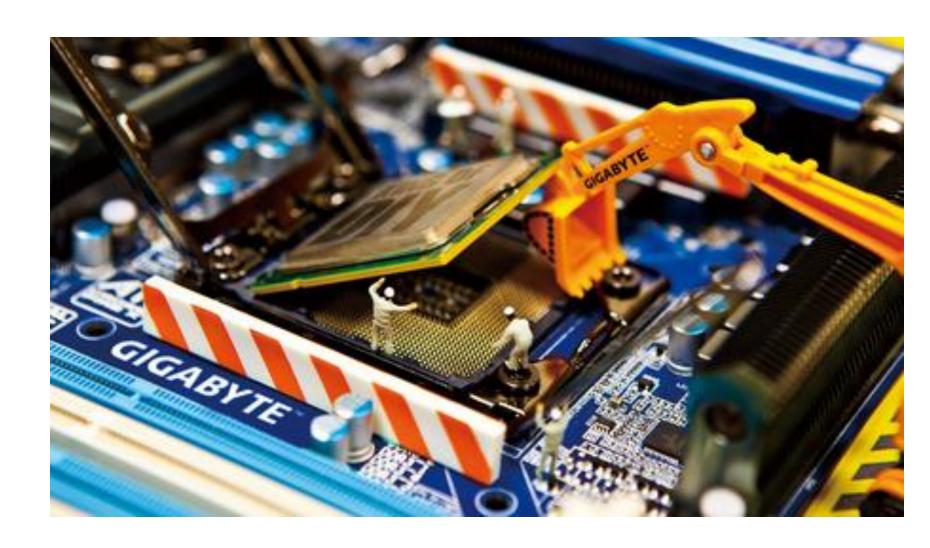
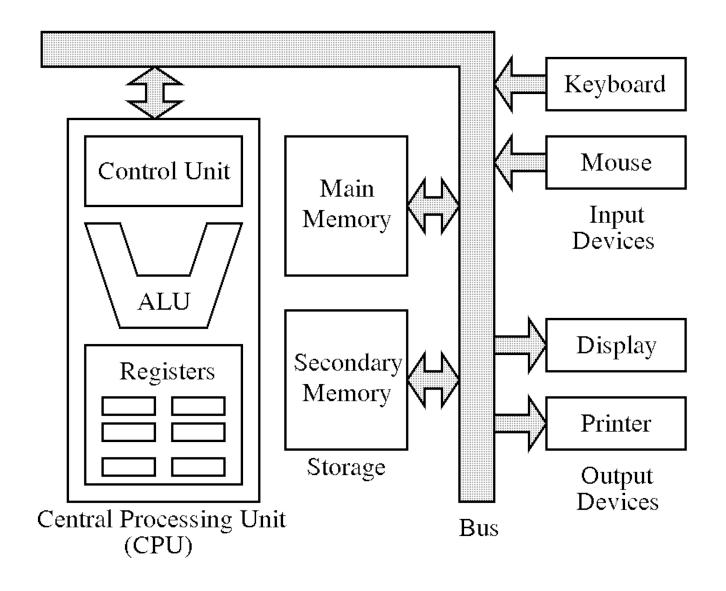
Repaso de arquitectura



Componentes

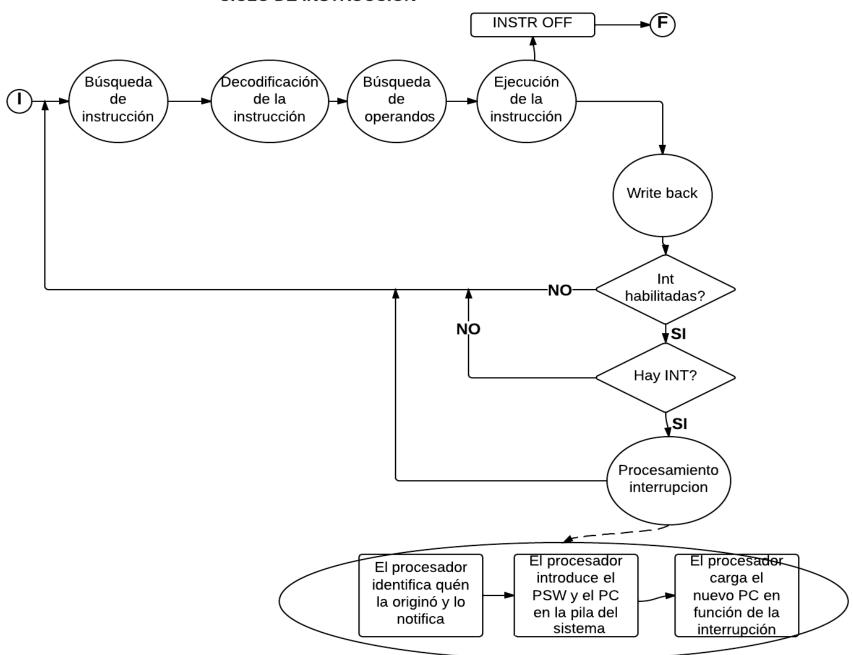


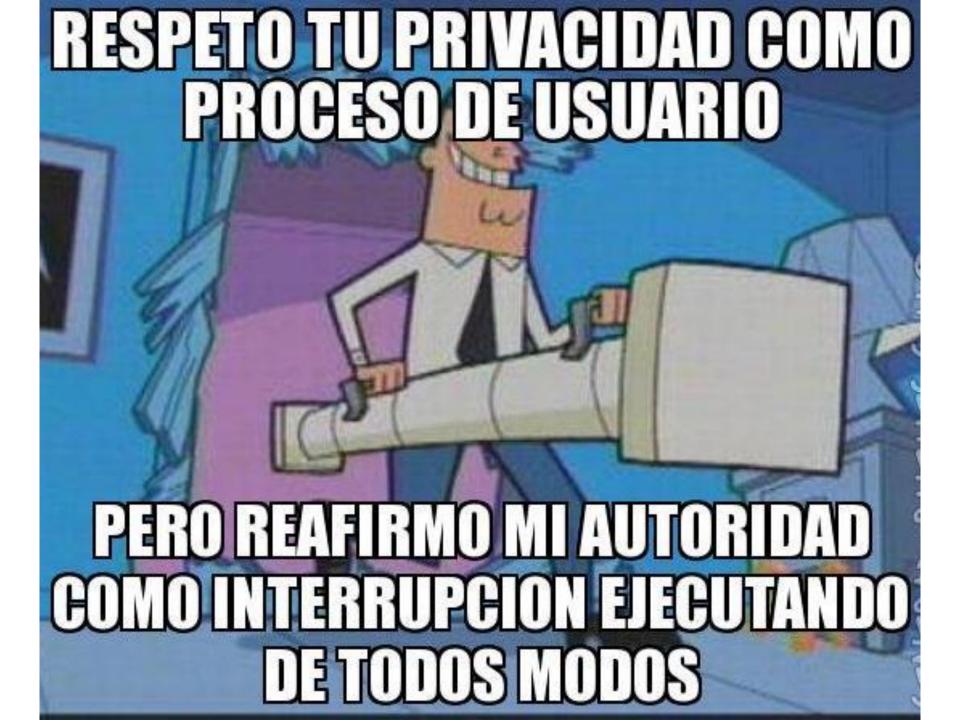
Registros del procesador

- Registros de uso general:
 - Acumulador (AX)
 - Base (BX)
 - Contador (CX)

- Registros de uso específico:
 - Stack pointer
 - Instruction pointer / Program Counter
 - PSW

CICLO DE INSTRUCCION

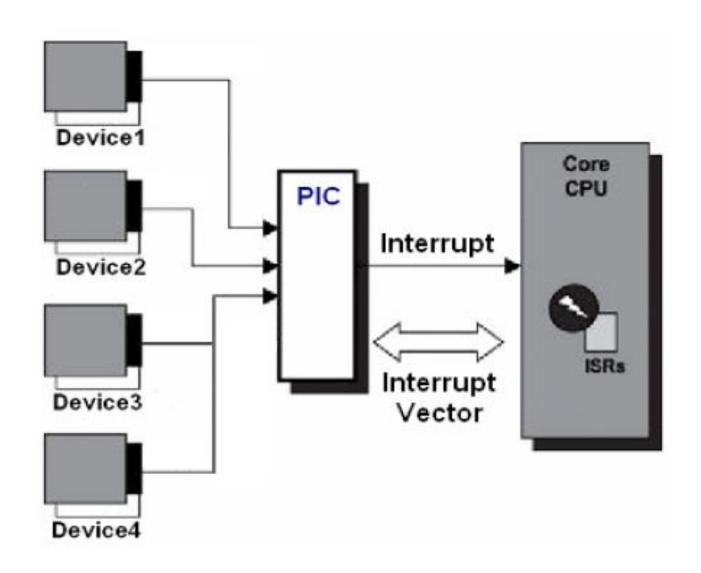




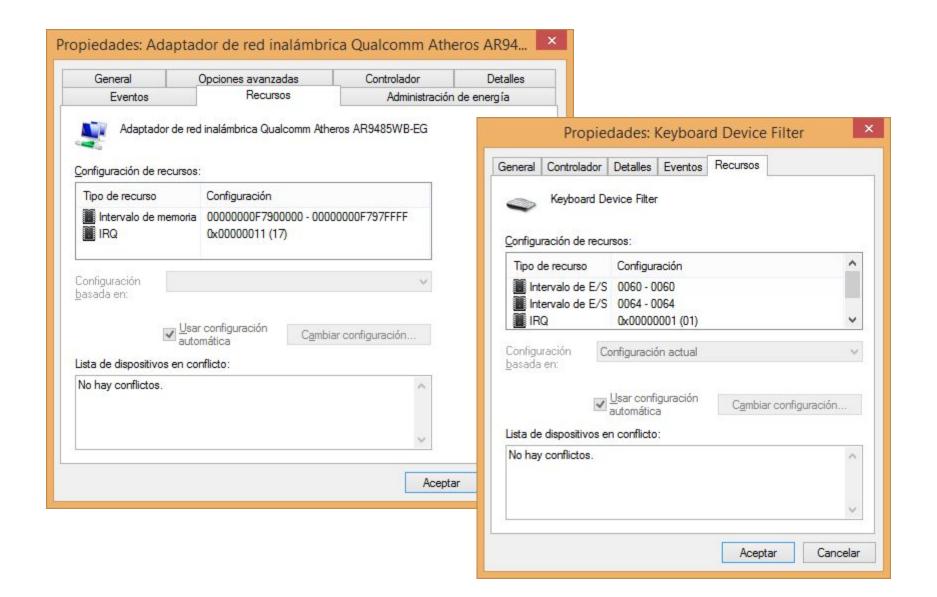
Interrupciones

- ¿Qué son?
- ¿Cómo funcionan?
- ¿Para qué sirven?
- Interrupciones vs Excepciones
 - Asíncronas vs Síncronas
 - De HW vs De SW
- Enmascarables vs No enmascarables
 - Deshabilitar interrupciones
 - Prioridades vs Anidadas
 - PIC/APIC

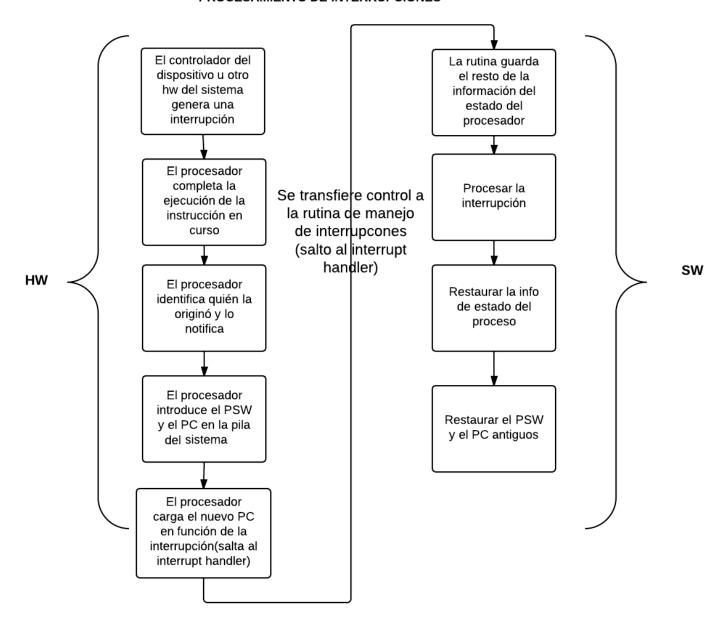
Controlador de interrupciones

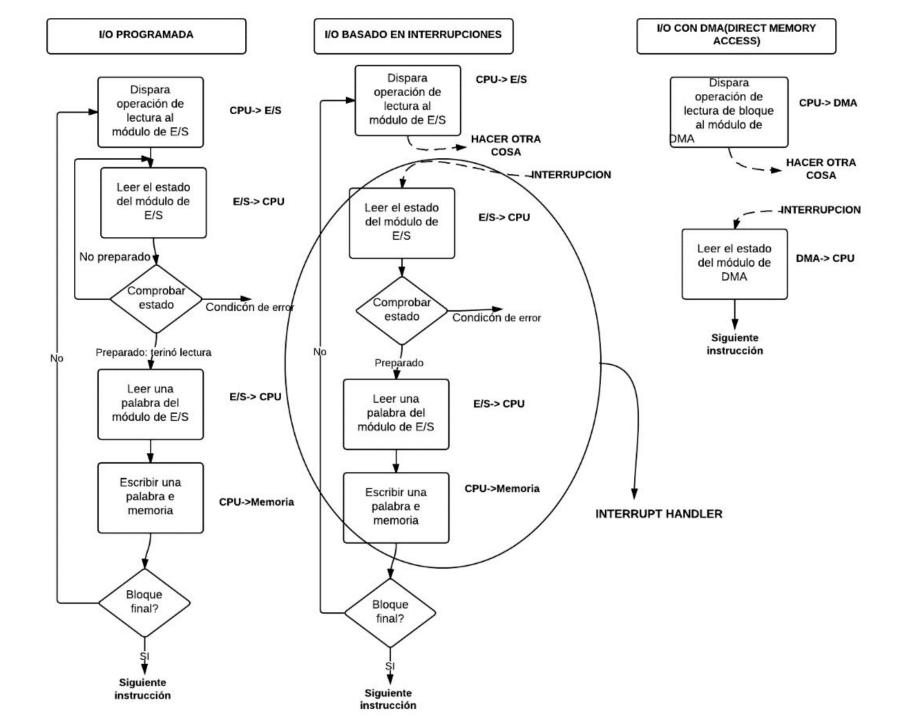






PROCESAMIENTO DE INTERRUPCIONES





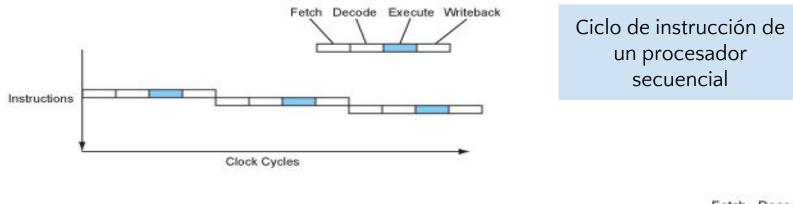
PEDIR OUETEAVISEN CUANDOESTE



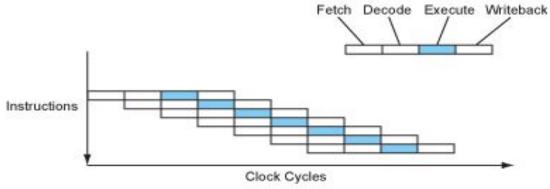


Bonus

- HyperThreading (Intel) CMT/SMT (AMD)
- Pipelining



Ciclo de instrucción de un procesador con pipeline



Links de interés

- Simple CPU: http://mgarciaisaia.github.io/simplecpu/
- De C a assembly: http://assembly.ynh.io/
- Procesadores modernos (pipelining):
 http://www.lighterra.com/papers/modernmicroprocessors/
- Lo que todo programador debería saber de la memoria: https://lwn.net/Articles/250967/?rss=1