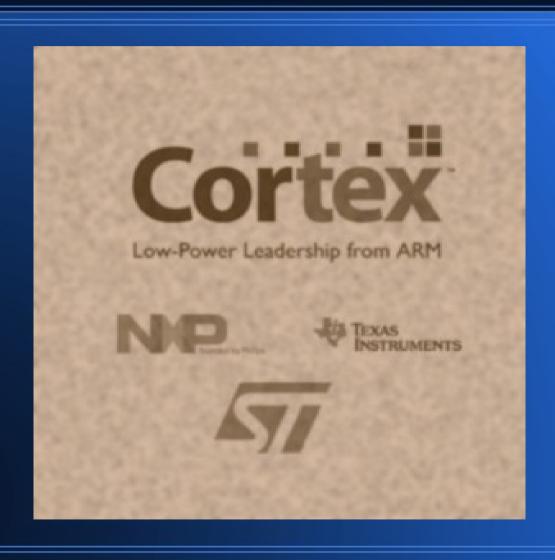
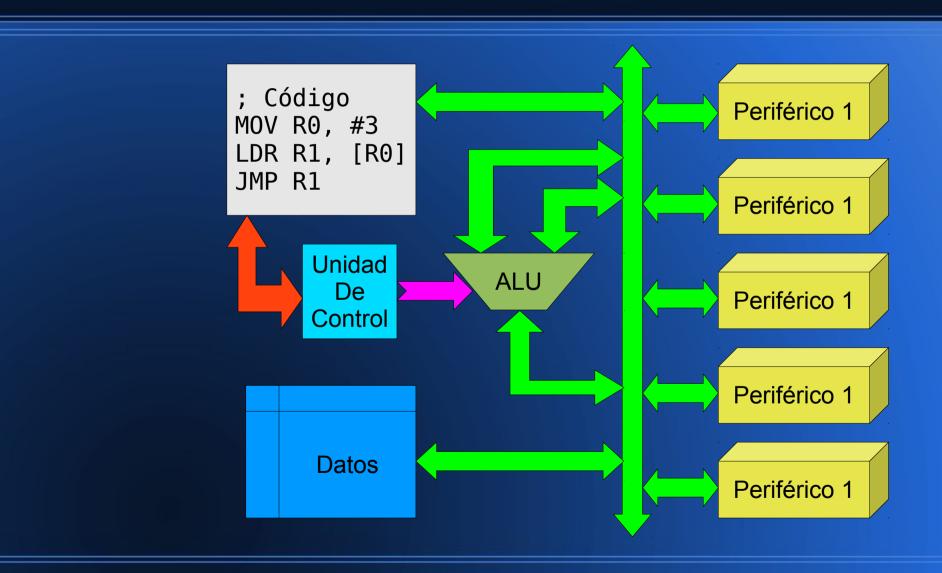
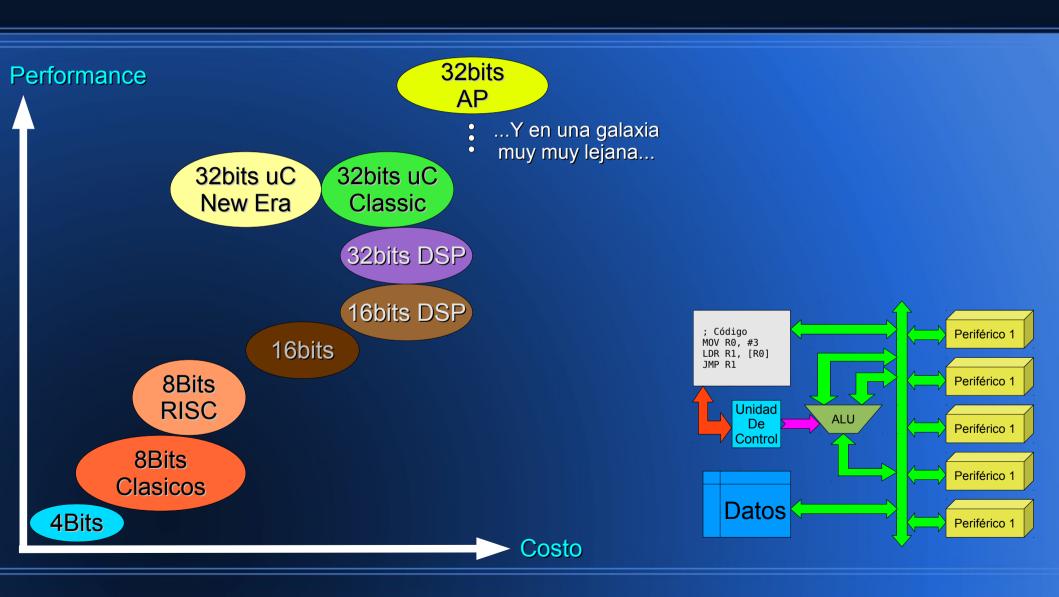
Curso ARM Cortex M3



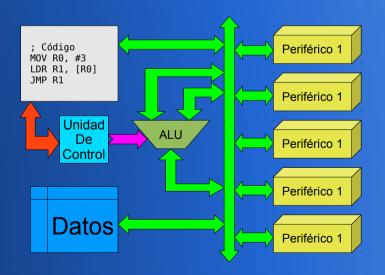
Temario Día 1

- Microcontroladores
- Advanced RISC Machines
 - Cortex M Series
 - Arquitectura Cortex M3
 - Periféricos, IP Cores y partner hardware
- Herramientas de desarrollo
 - Compiladores, IDEs y Programadores
 - Programación.
 - Programa tipo 1: Blink Led.
 - Programa tipo 2: Comunicación serial+SPI

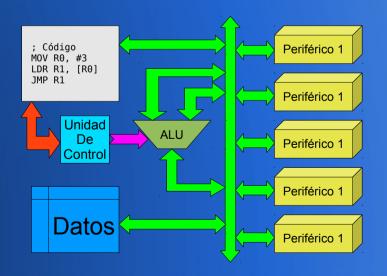




- Atmel: MCS51, AVR8, AVR32, ARM7/9, Cortex M3
- Microchip: PIC, dsPIC, MIPS m4k (PIC32)
- Freescale: Coldfire, HCS08, HC11/12, PPC, Cortex M3/4
- Hitachi: SuperH, SH8, ARM9
- NXP: MCS51, ARM7/9, Cortex M3
- ST: STR7/8, ARM7/9, Cortex M3
- Texas: TMS320, ARM9, Cortex M3, Cortex A8/9
- ...y un largo etc...



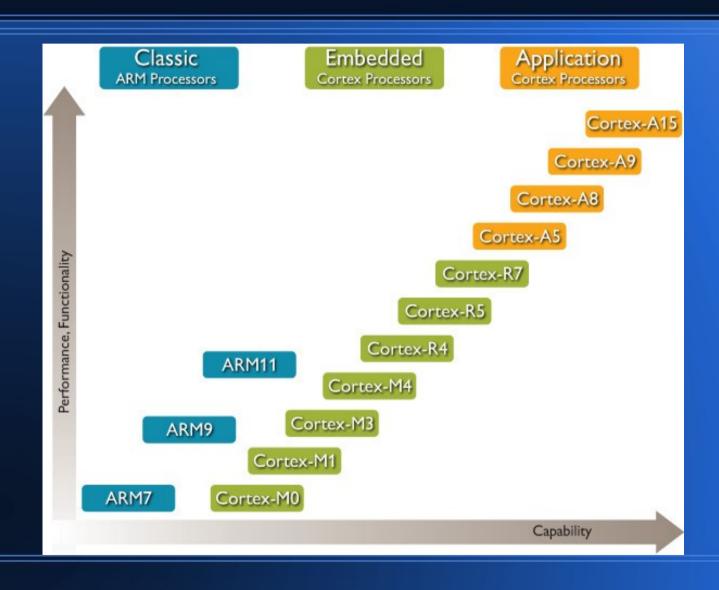
- Atmel: MCS51, AVR8, AVR32, ARM7/9, Cortex M3
- Microchip: PIC, dsPIC, MIPS m4k (PIC32)
- Freescale: Coldfire, HCS08, HC11/12, PPC, Cortex M3/4
- Hitachi: SuperH, SH8, ARM9
- NXP: MCS51, ARM7/9, Cortex M3
- ST: STR7/8, ARM7/9, Cortex M3
- Texas: TMS320, ARM9, Cortex M3, Cortex A8/9
- ...y un largo etc...

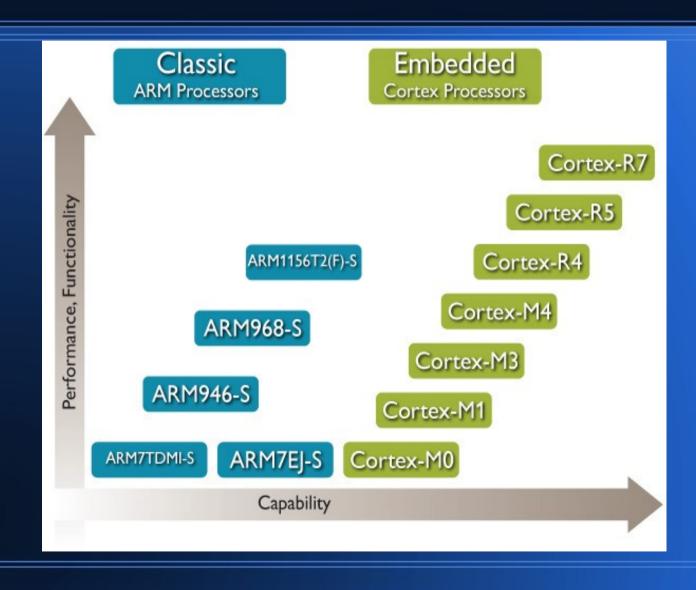


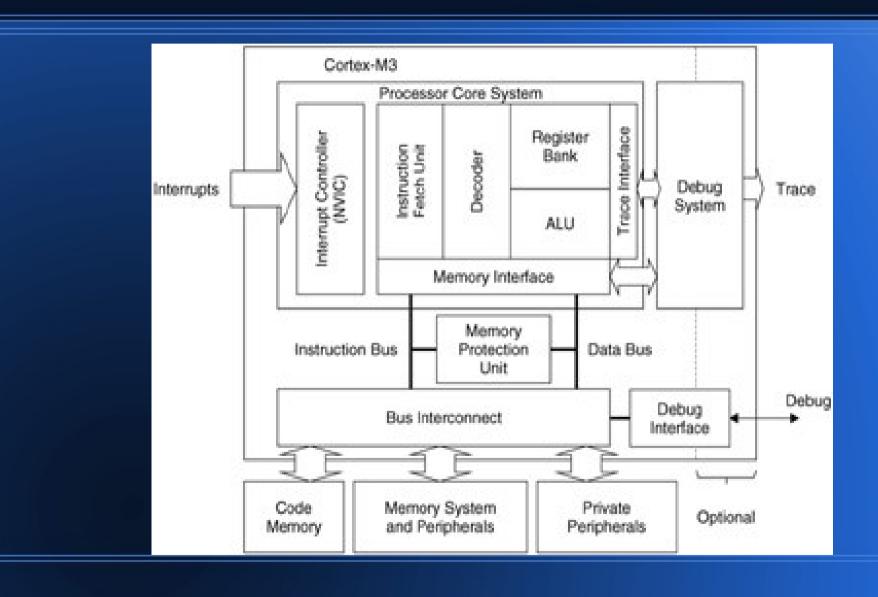
Advanced RISC Machines

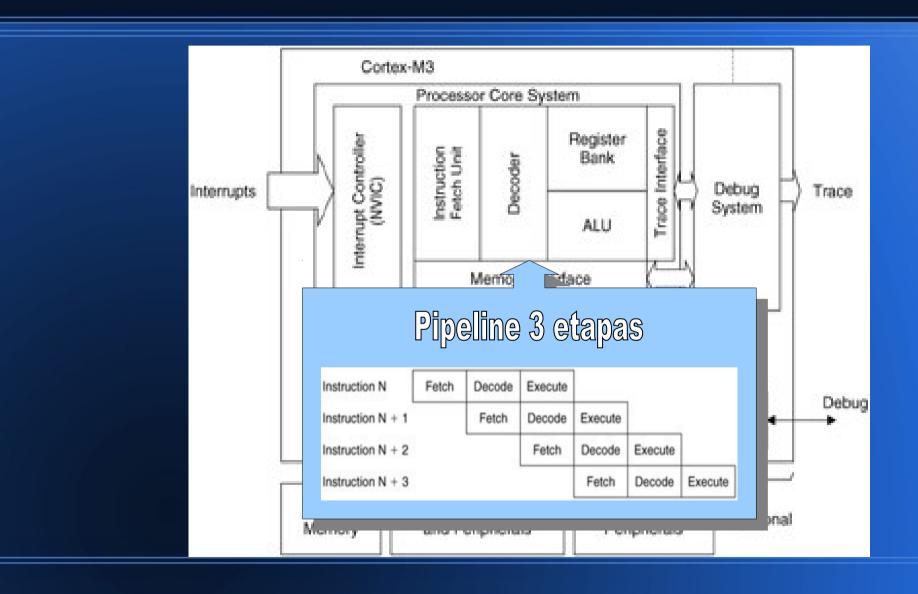
- Primer diseño data de los 80's (ARMv1), actualmente existe la linea ARMv 6/7
- Basado en el 6502 (Commodore, MSX, Apple II, etc.)
- RISC
- Sin microcodigo (todo en logica convinacional)
- Target en procesadores embebidos
 - Application processor (Smart phones, HDTV)
 - Device processor (camaras, jugetes, etc.)
- No fabrica nada, licencia el nucleo a otros

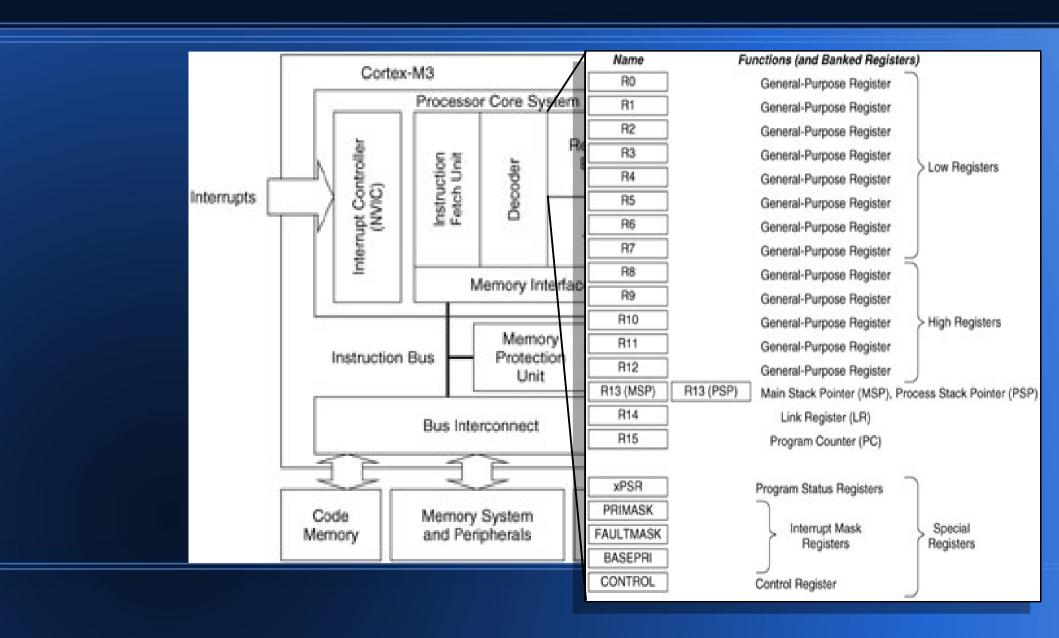
Advanced RISC Machines

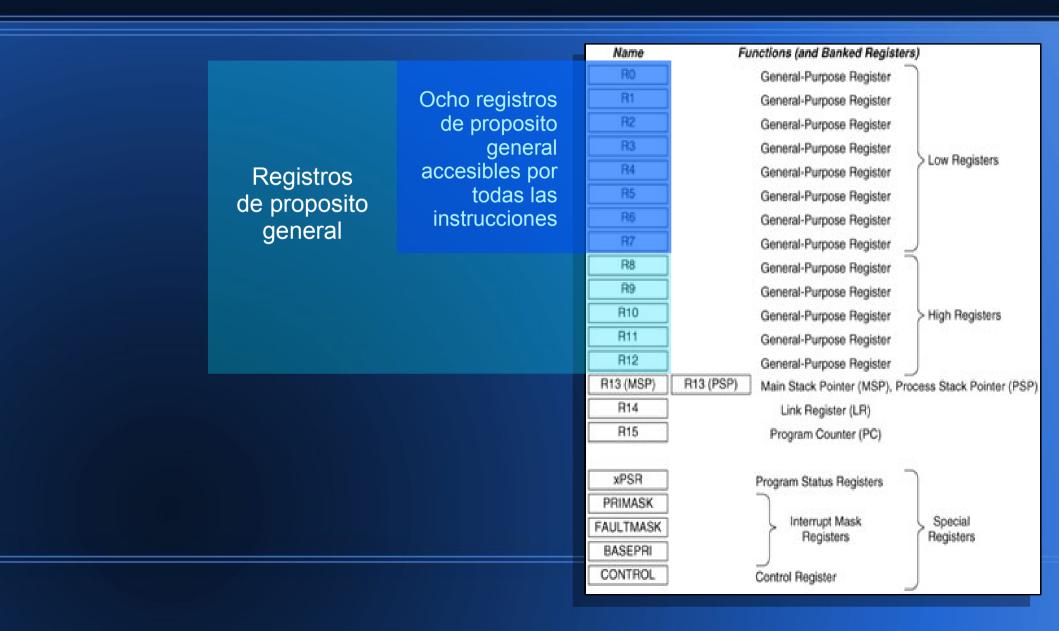


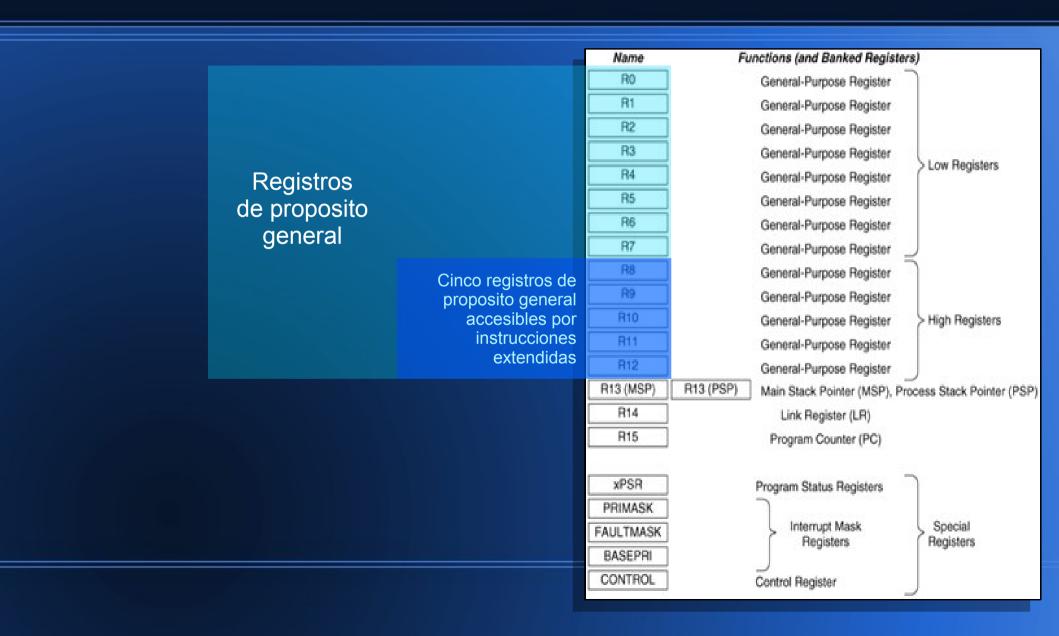


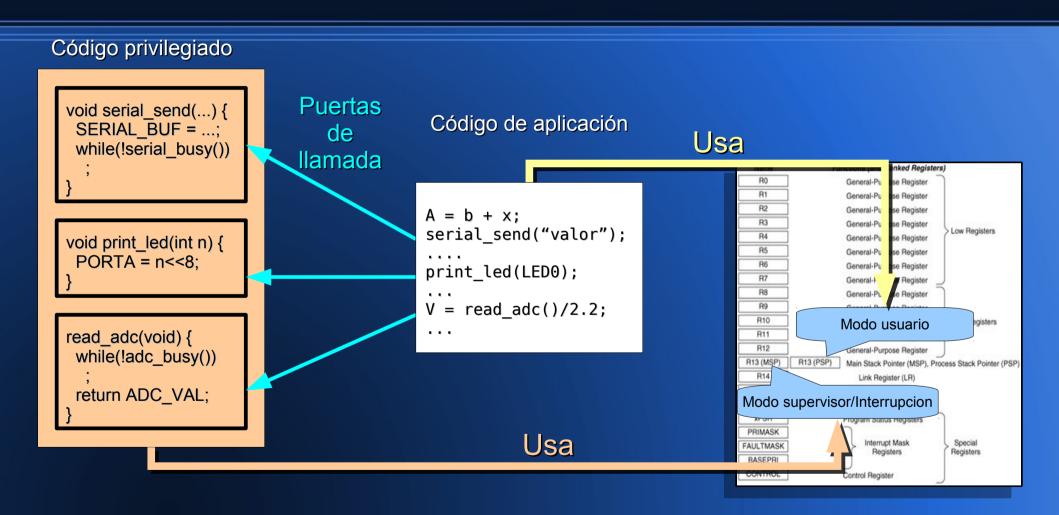


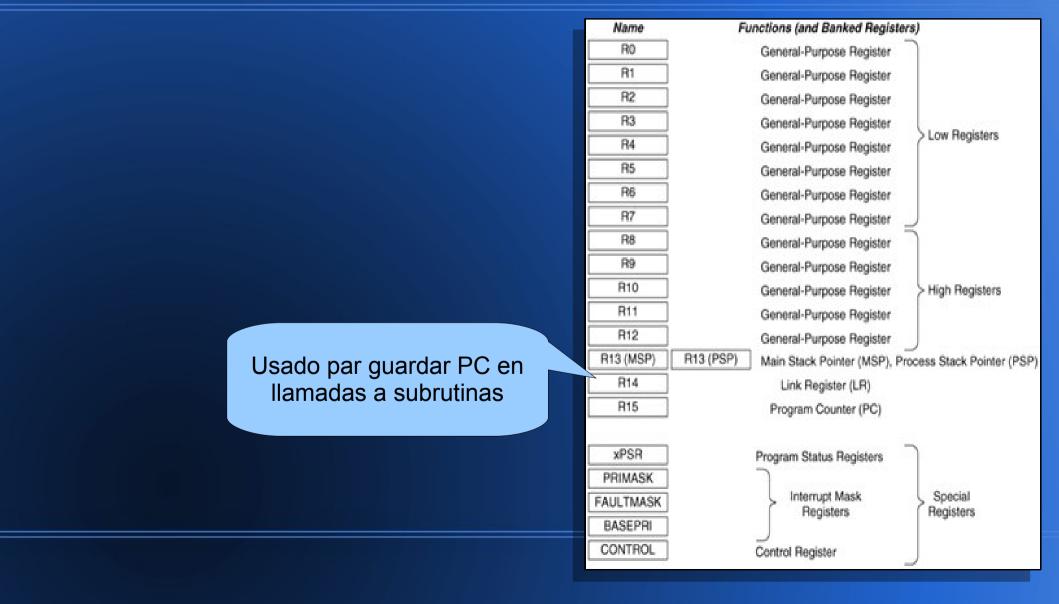


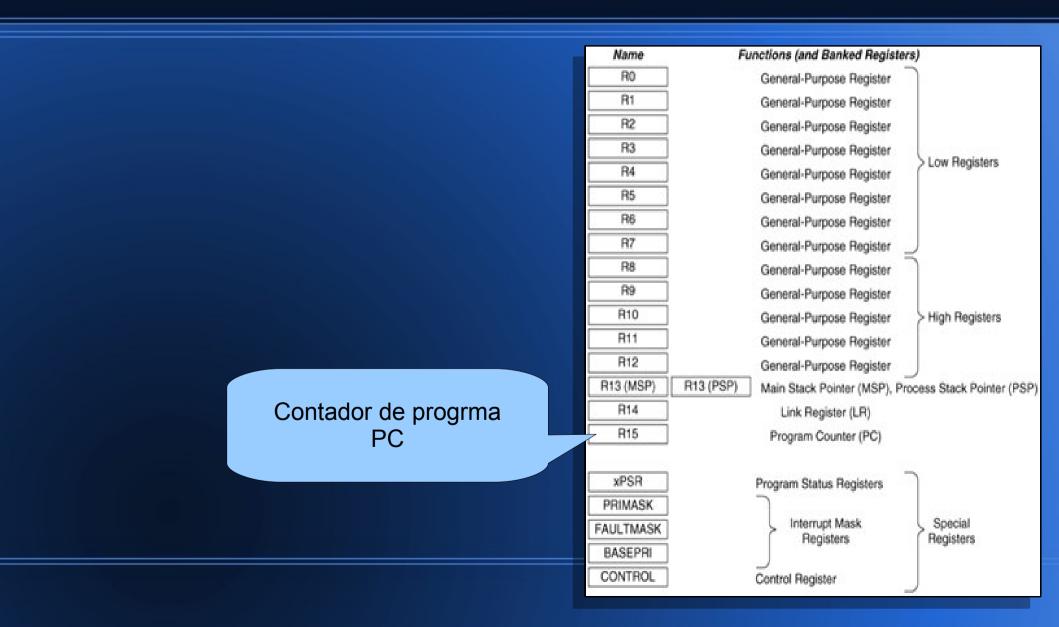


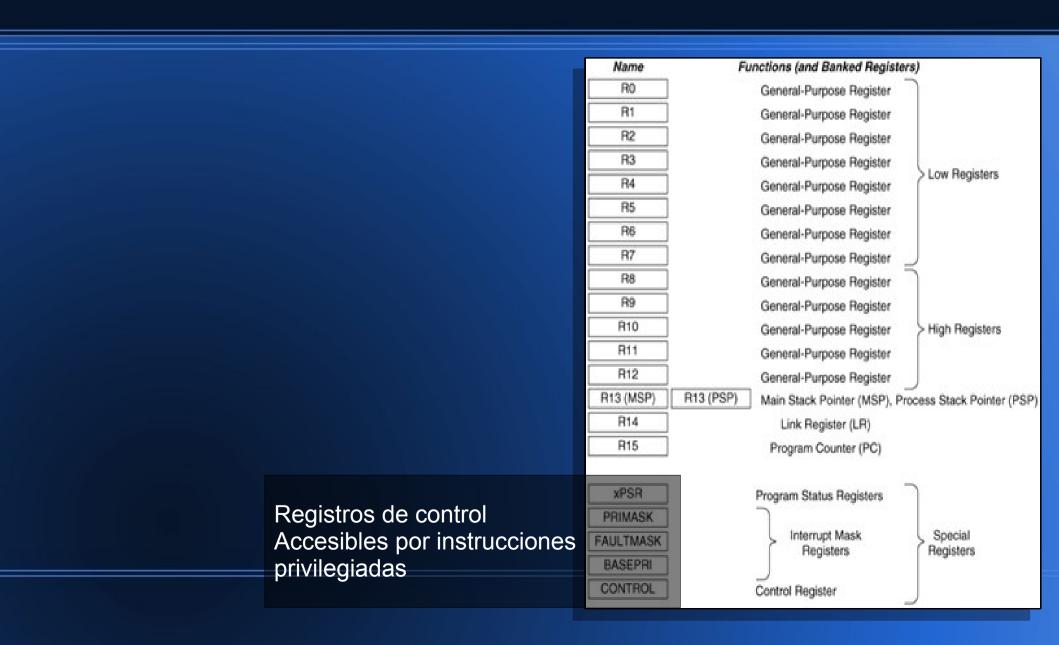




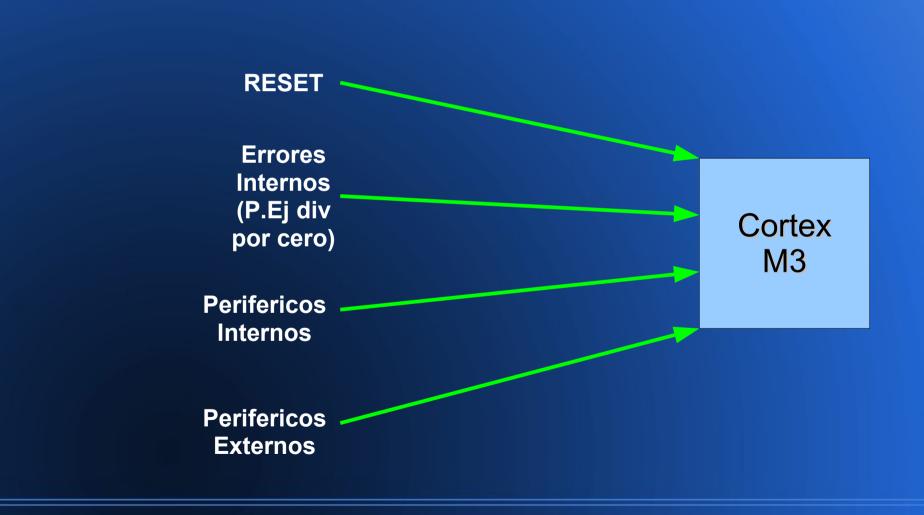




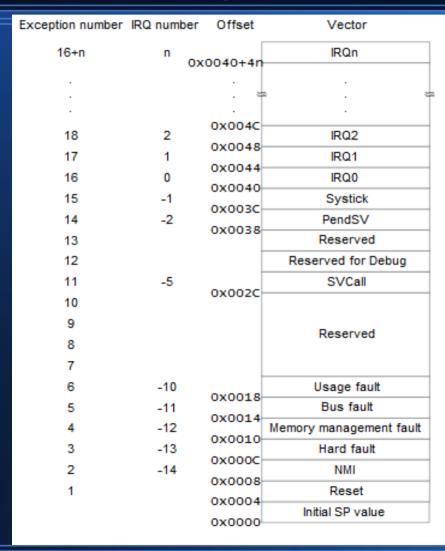


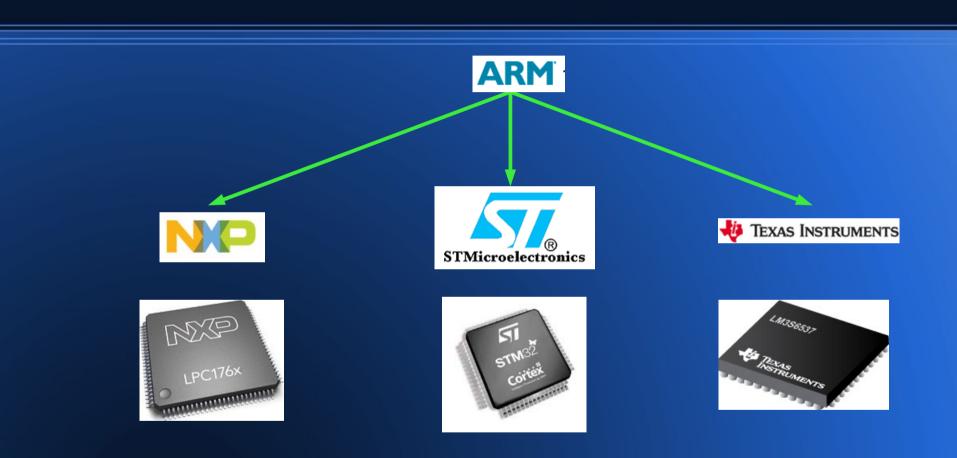


Interrupciones



Interrupciones

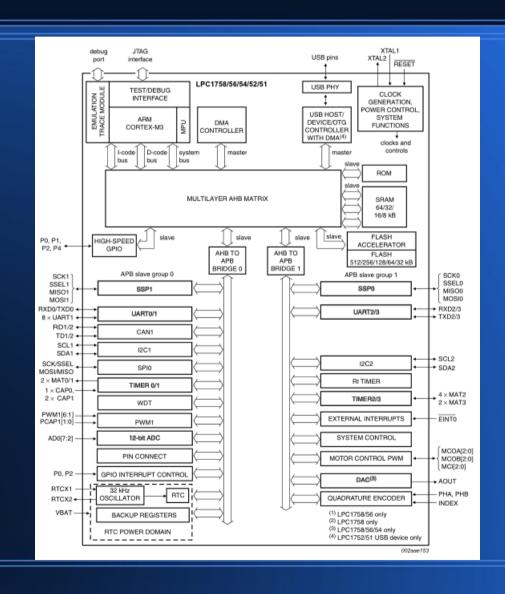






NXP LPC1754

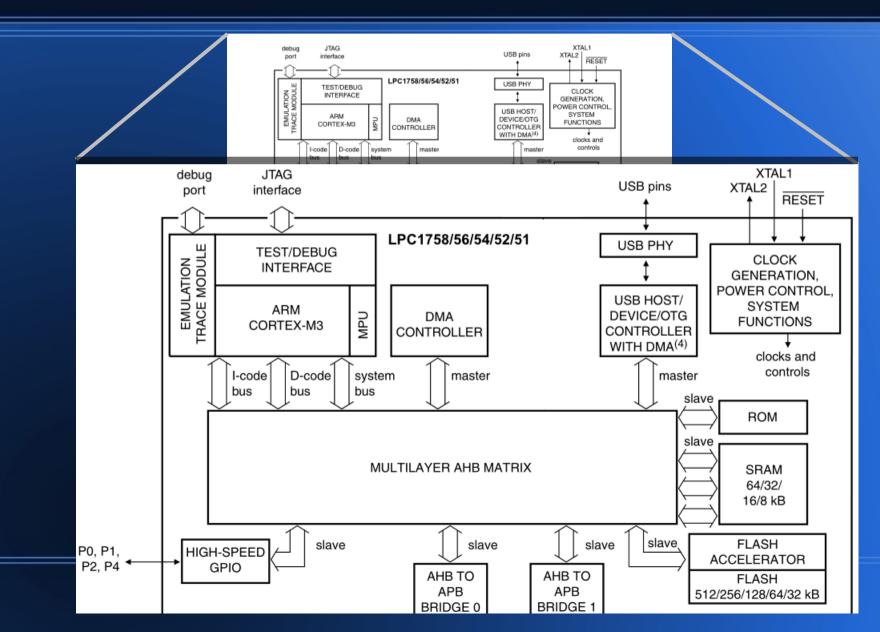






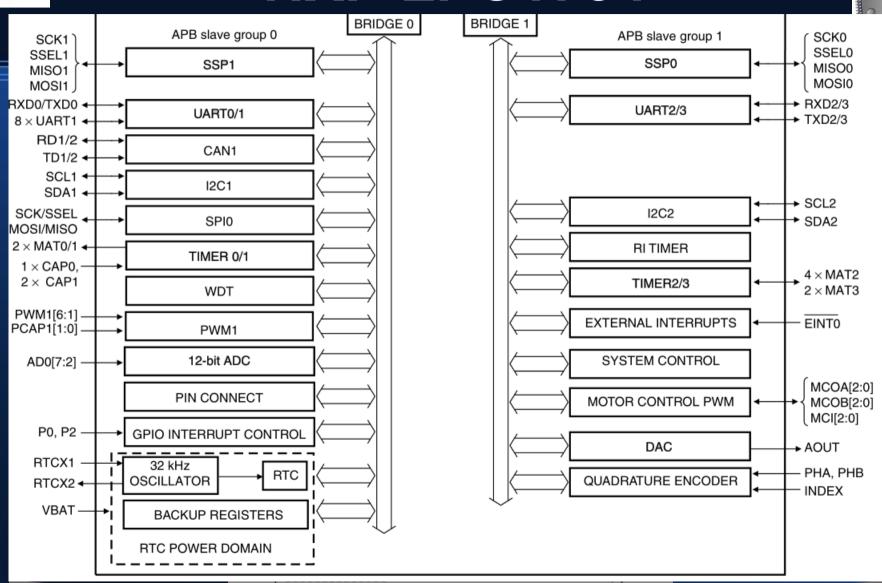
NXP LPC1754







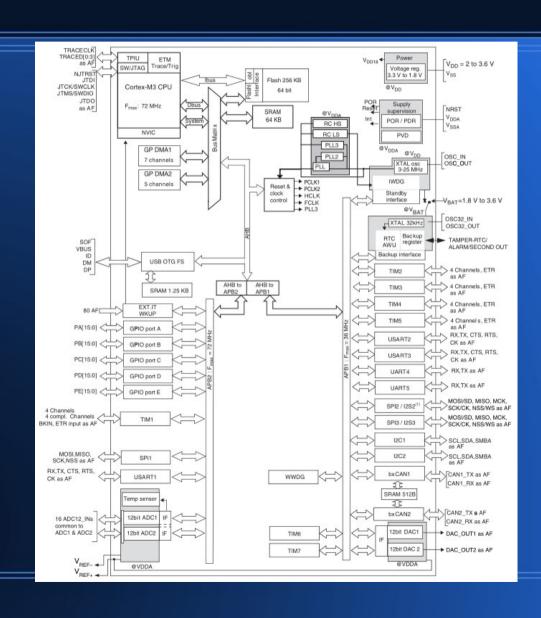
NXP LPC1754





STM32F105

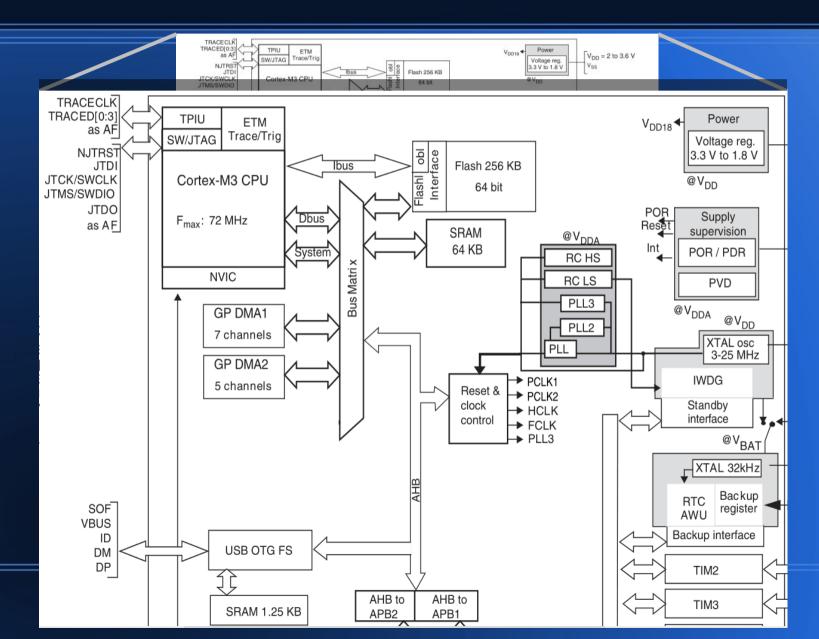






STM32F105

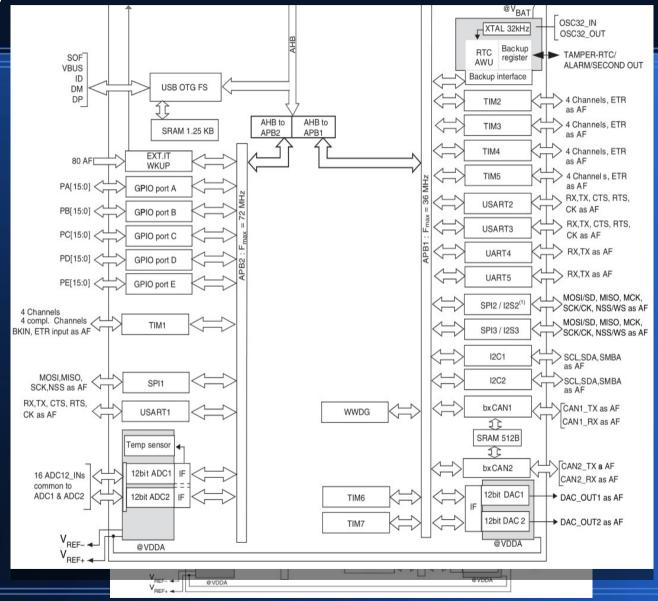






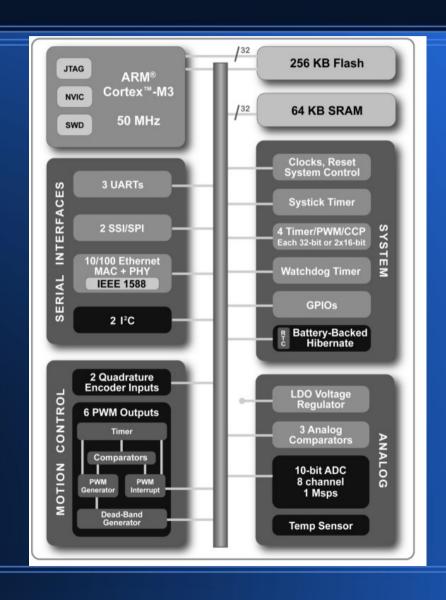
STM32F105





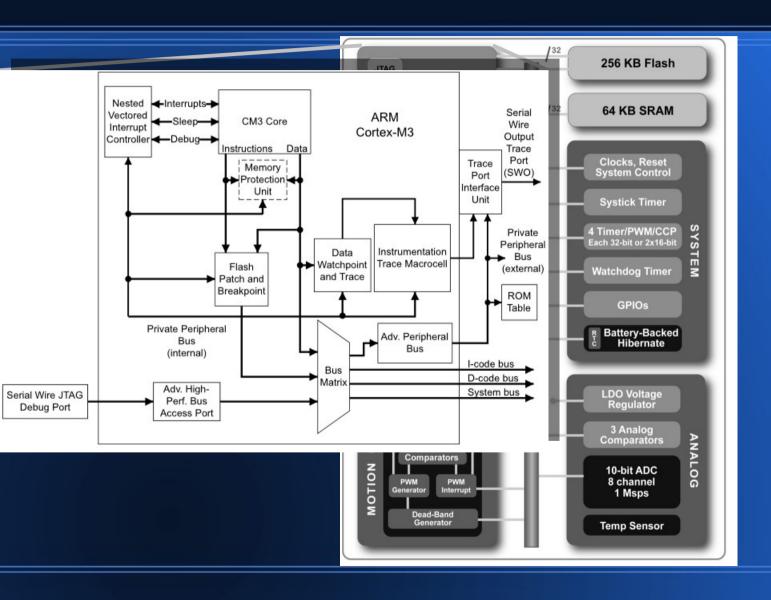






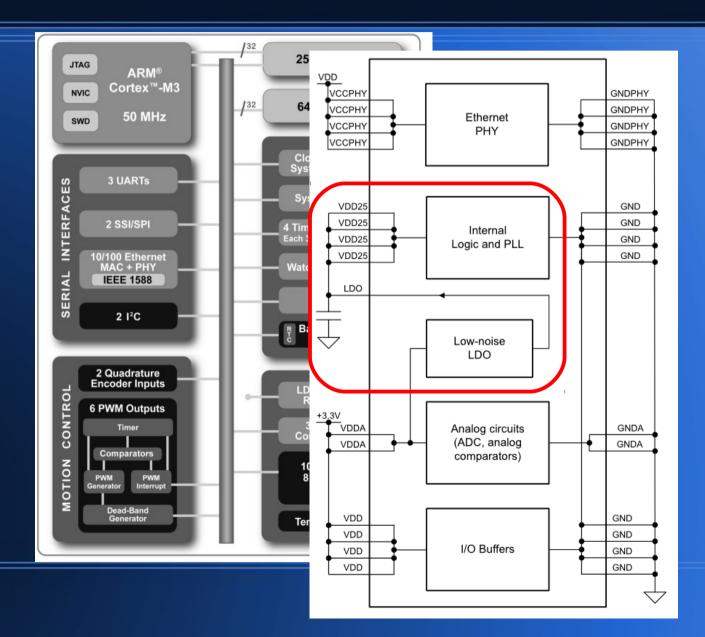






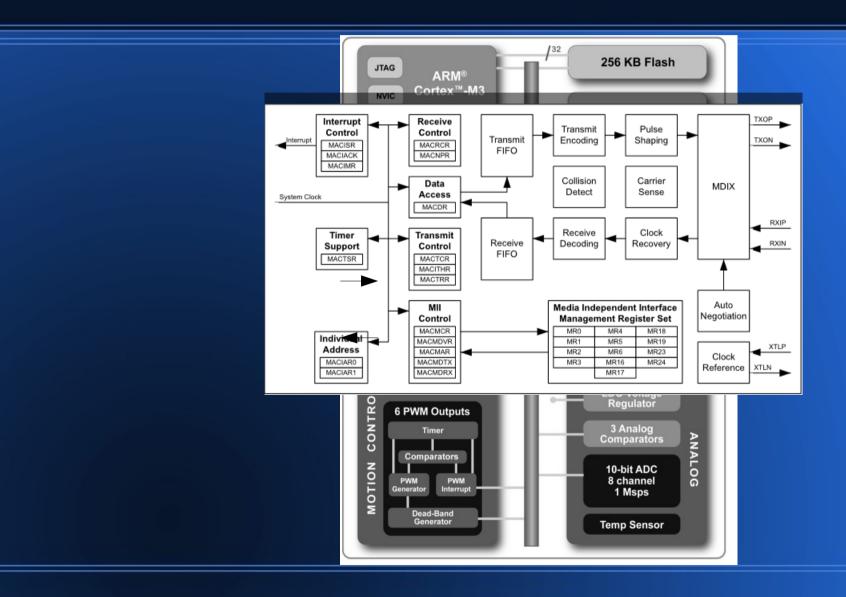






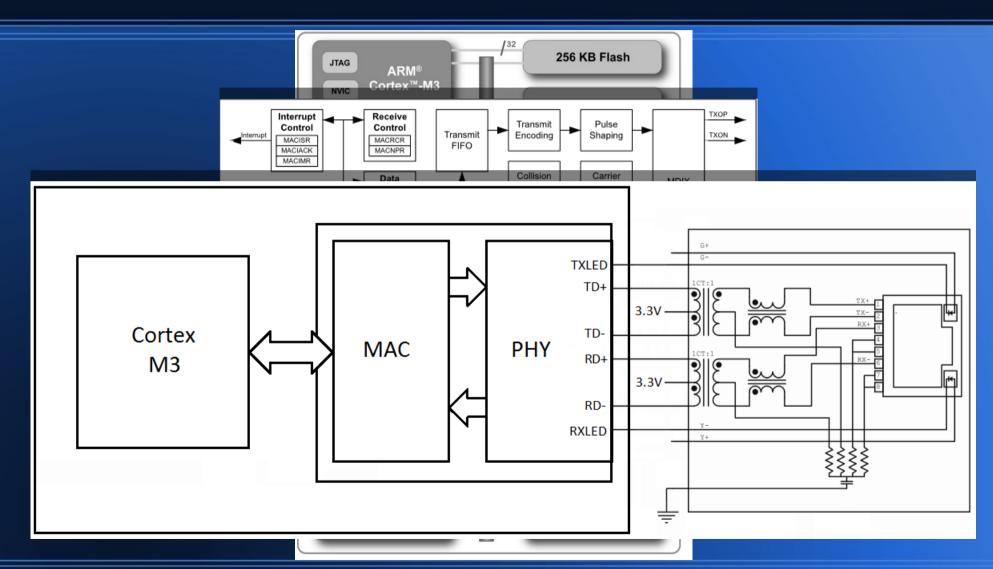






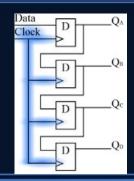








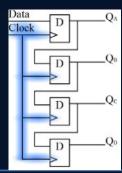
Cortex M3 Clocks

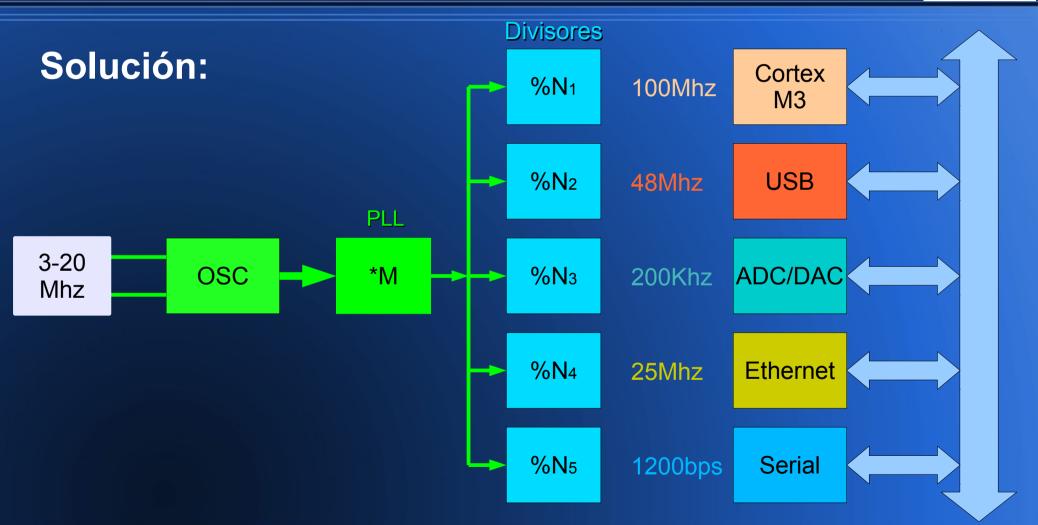






Cortex M3 Clocks

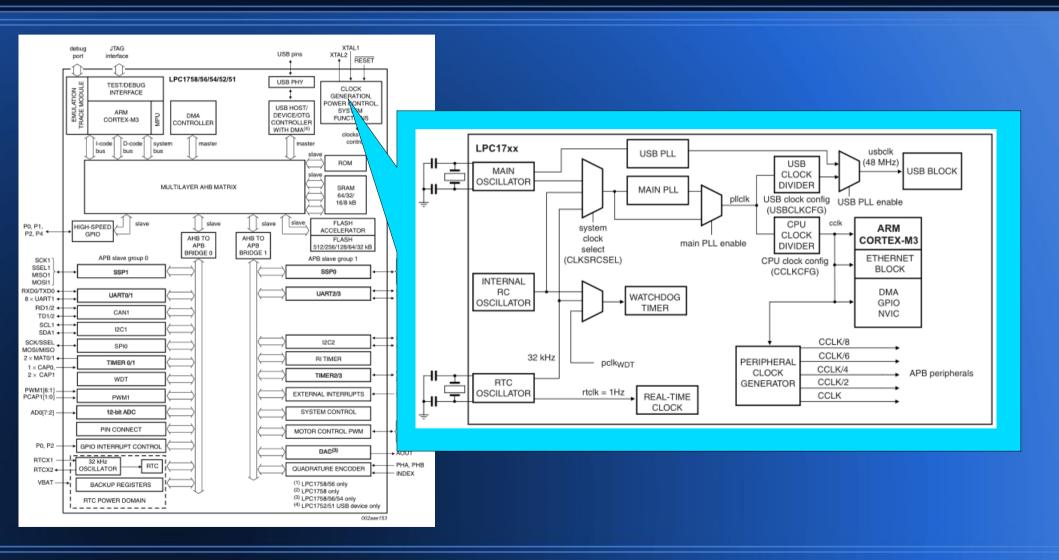






LPC1754 Clock

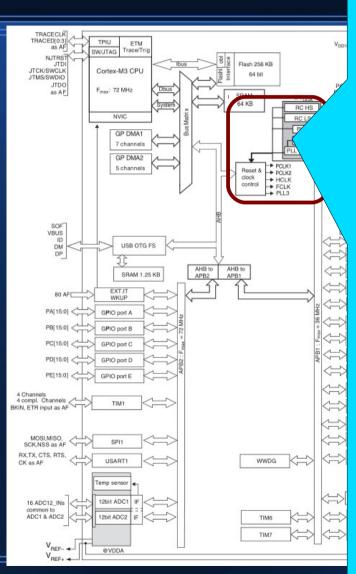


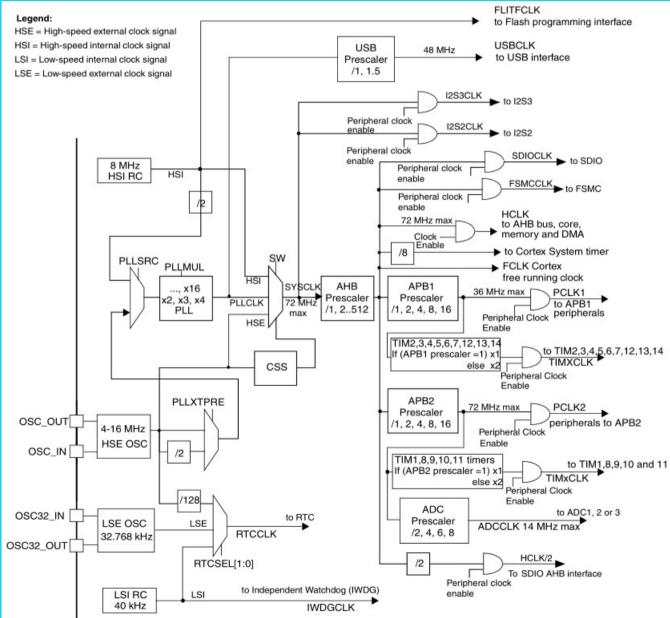




STM32F105 Clock



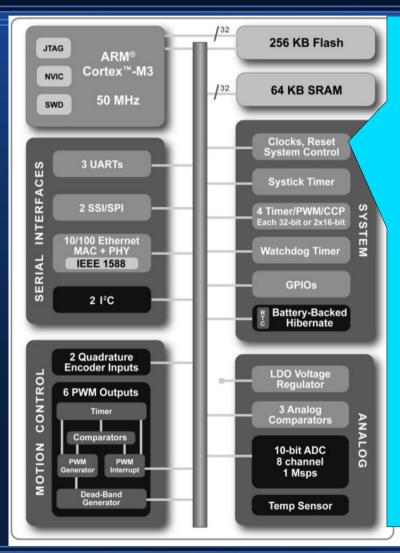


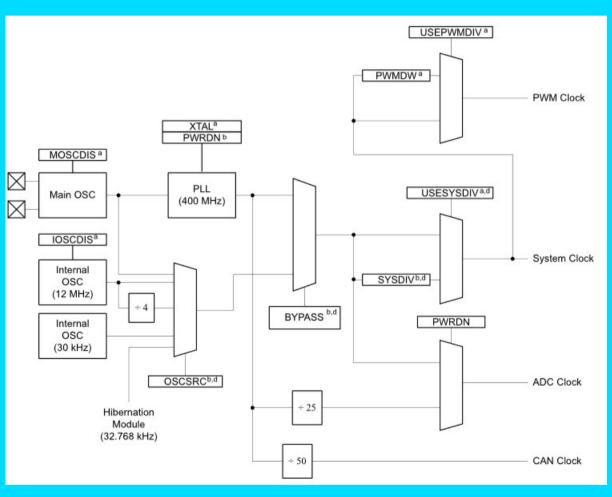




LM3S6537 Clock



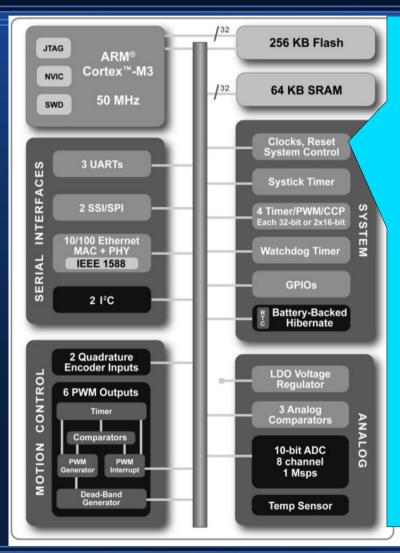


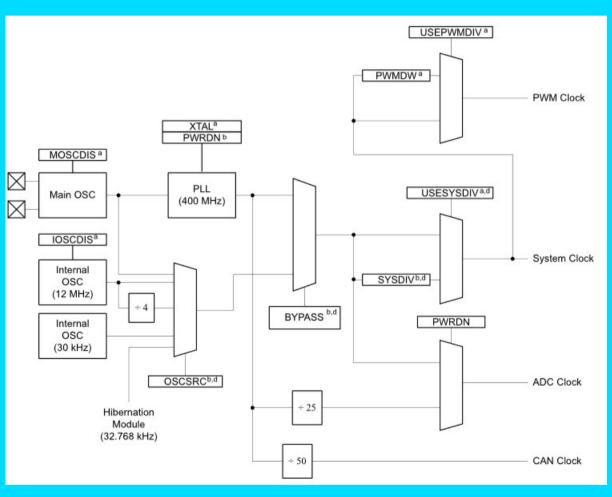




LM3S6537 Clock

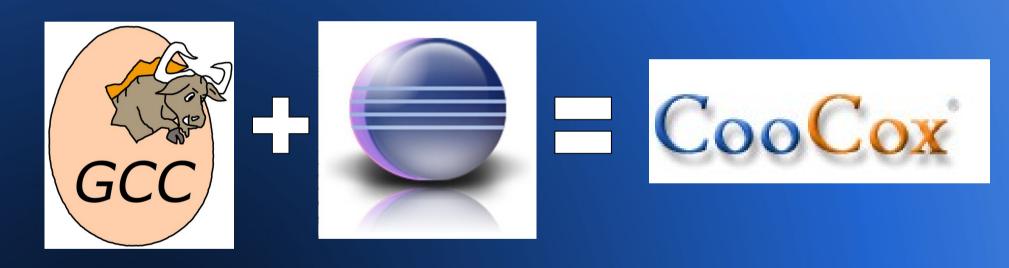


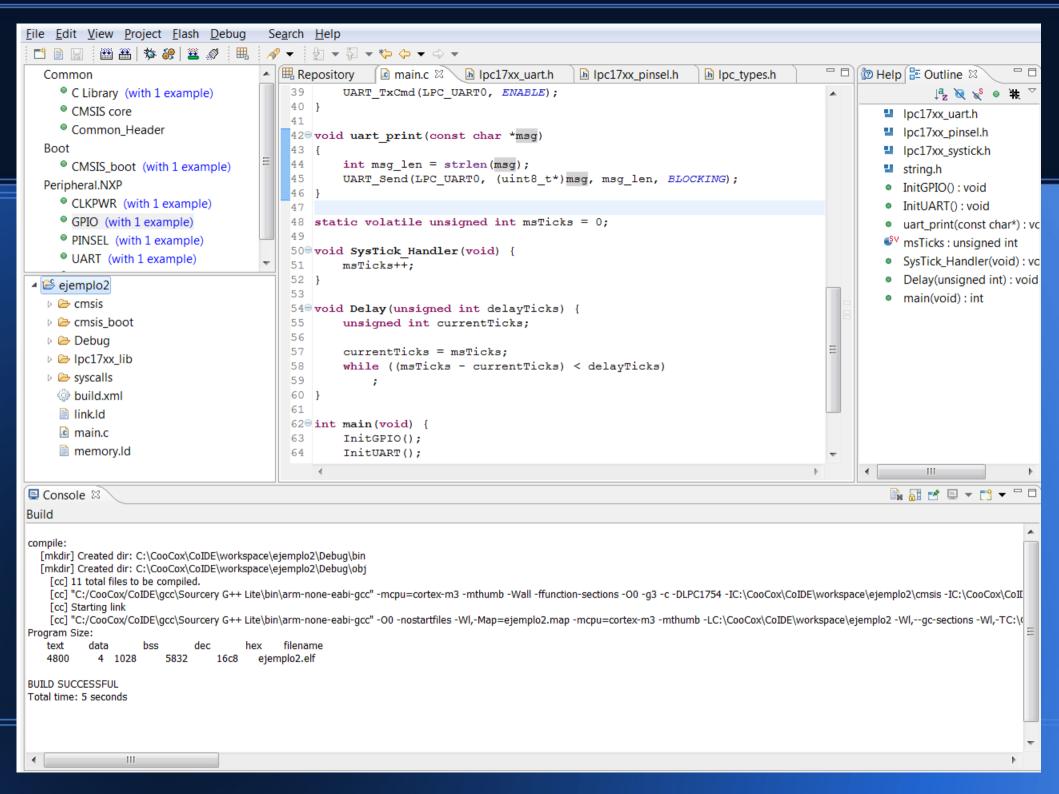




Compiladores, IDEs y Programadores

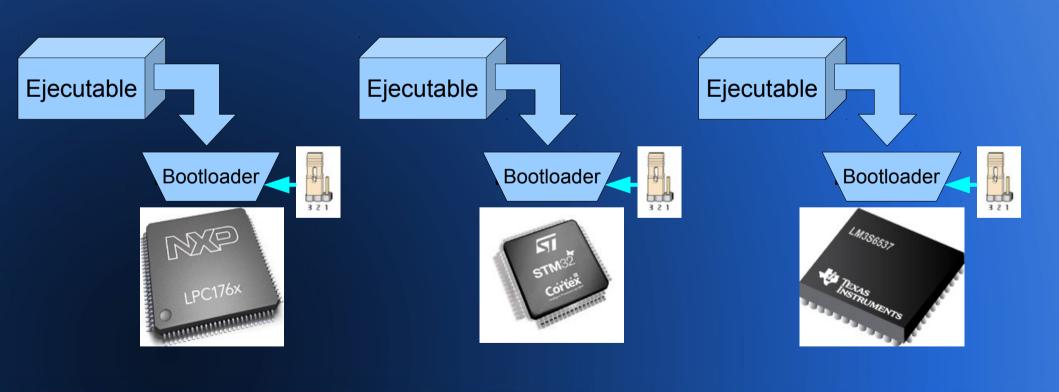
Entorno de desarrollo



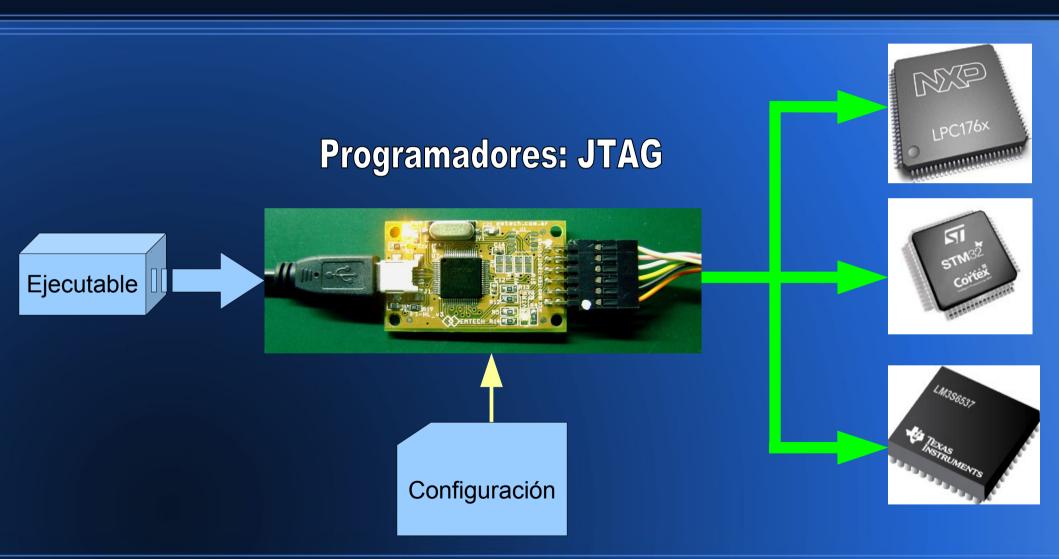


Compiladores, IDEs y Programadores

Programadores: Vendor Custom



Compiladores, IDEs y Programadores



It's a break time!

