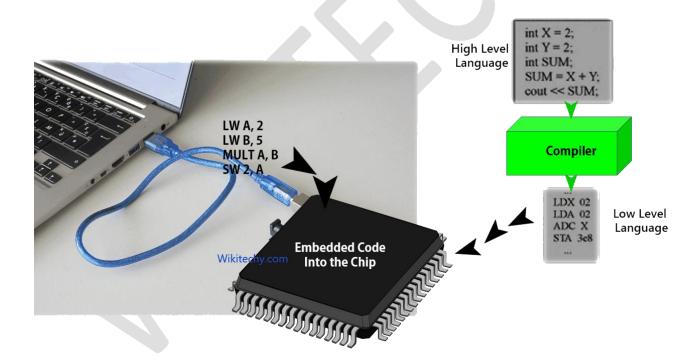


Introduction to Embedded Systems

- An embedded system is a system that has software embedded into computer-hardware, which makes a system dedicated for an application(s) or specific part of an application or product or part of a larger system.
- An embedded system is one that has dedicated purpose software embedded in computer hardware.
- It may be an independent system or a part of large system.
- Its software usually embeds into a ROM (Read Only Memory) or flash.



 Program Flow and data path Control Unit (CU) — Includes a fetch unit for fetching instructions from the memory



• **Execution Unit (EU)** — Includes circuits for arithmetic and logical unit (ALU) and for instructions for a program control task, Data transfer instructions, halt, interrupt or jump to another set of instructions or call to another routine or sleep or reset

Processor

- A Processor is the heart of the Embedded System.
- Microprocessor and Microcontroller is must for an embedded system



1.General purpose microprocessor

For example, Intel 80x86, Sparc, or Motorola 68HCxxx





Embedded general purpose processor

Fast context switching features, use of on-chip Compilers, for example, Intel® XScale™ Applications Personal Internet Client Architecture-based PDAs, cell phonesand other wireless devices.



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