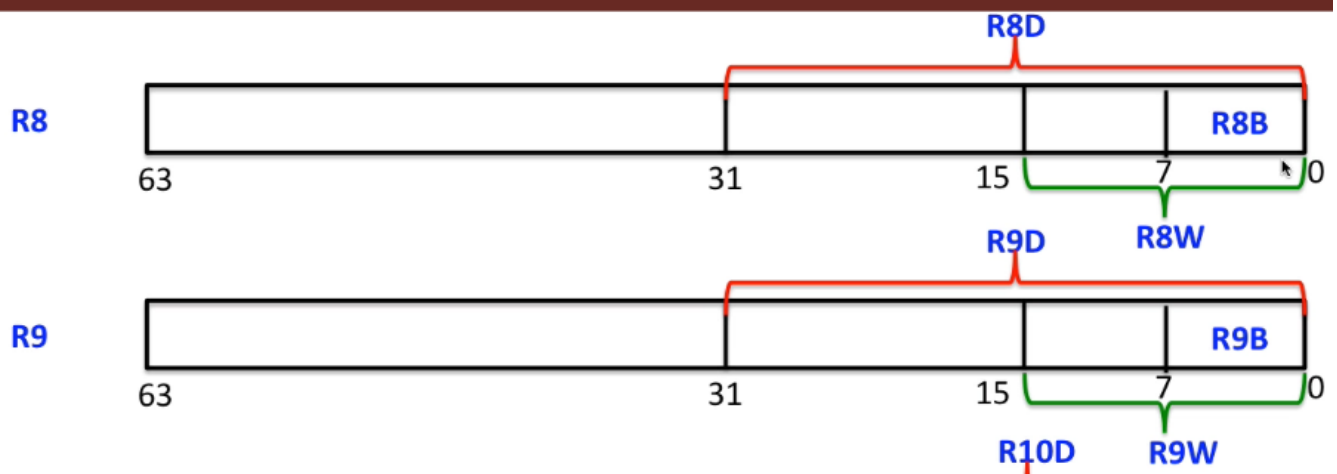
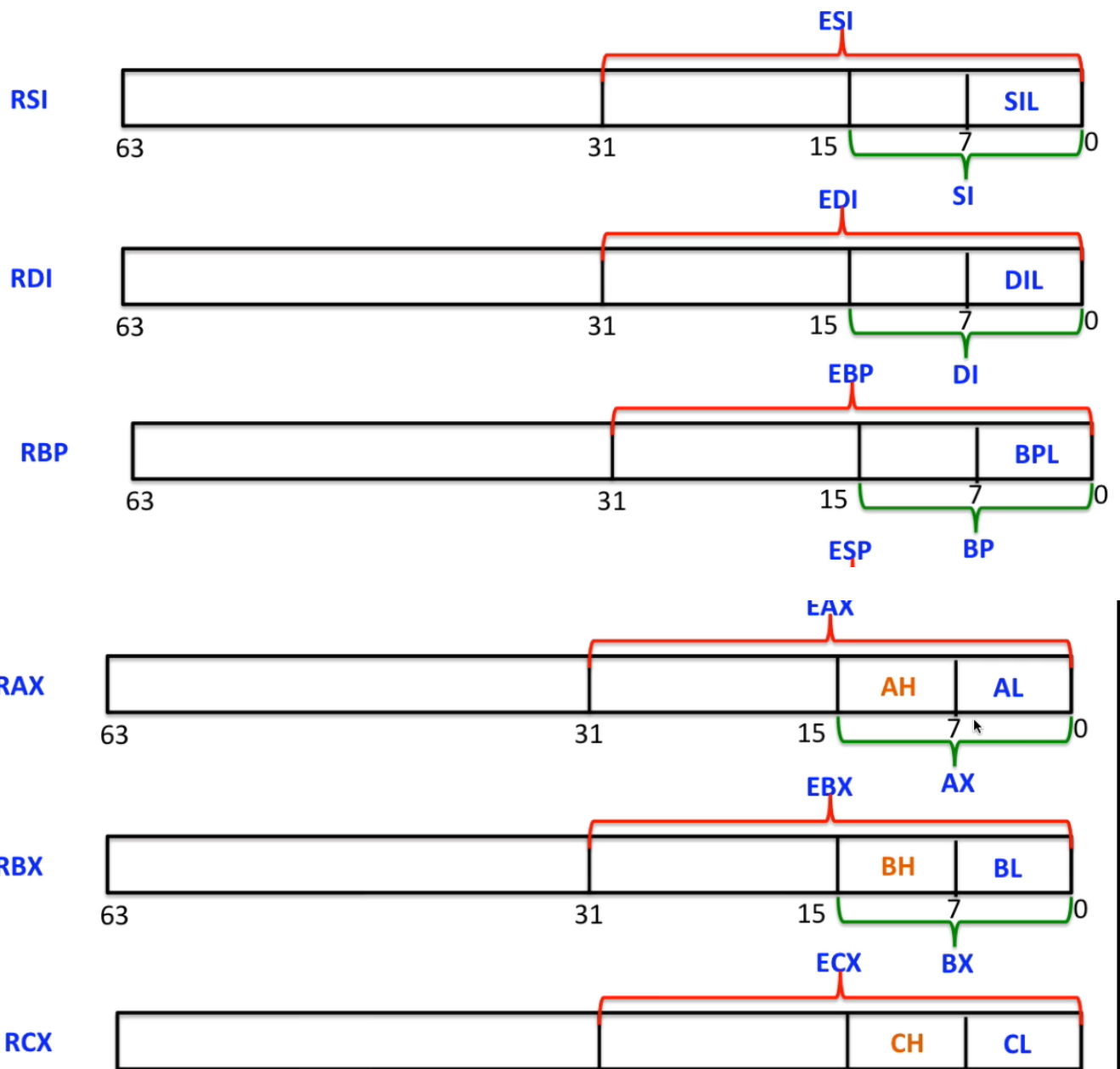


# CPU Basics

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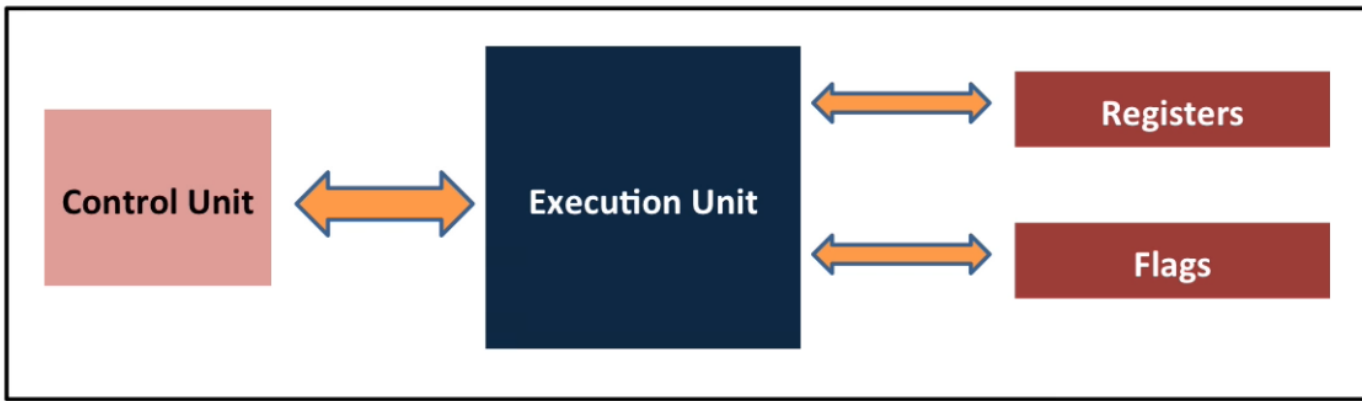
- Intel :
  - IA-32 (32 bit)
  - X86\_64 (64 bit)
- Cpu Registers for 64 bit
  - General Purpose Registers.
    1. RAX
    2. RBX
    3. RCX
    4. RDX
    5. RSI
    6. RDI
    7. RBP
    8. RSP (Stack Pointer)
    9. R8
    10. R9
    11. R10
    12. R11
    13. R12
    14. R13
    15. R14
    16. R15
- RIP Register :
  - Instruction Pointer





- ARM

- MIPS



- **Control Unit** – Retrieve / Decode instructions, Retrieve / Store data in memory

- **Execution Unit** – Actual execution of instruction happens here

- **Registers** - Internal memory locations used as “variables”

- **Flags** – Used to indicate various “event” when execution is happening



- To know you Archi.
  - `lscpu` (Linux)
  - `cat /proc/cpuinfo` (Linux)