

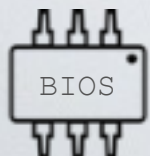
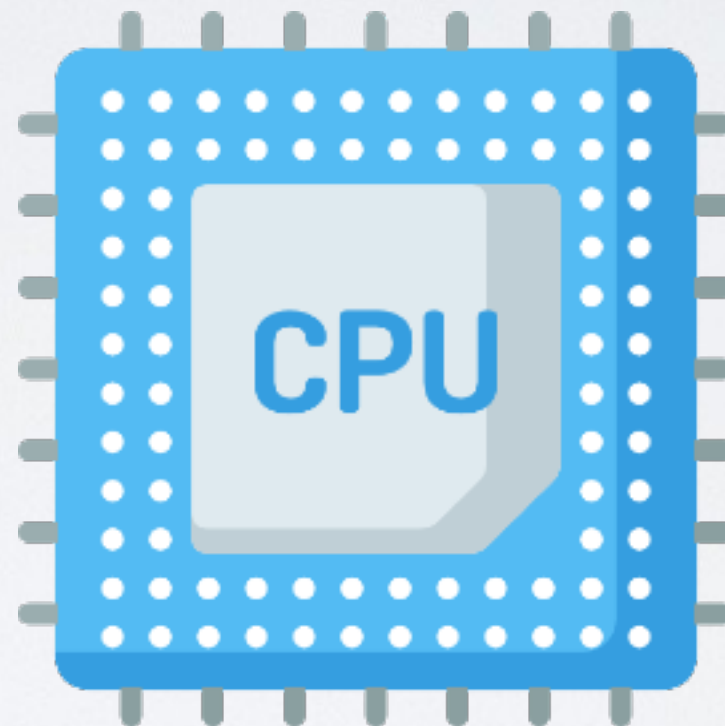
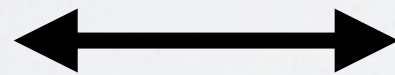
0x FF FF FF FF



I/O



RAM



Boot

0x 00 00 00 00

Simple Computer Architecture

Memory + CPU

for a more accurate and detailed map of the x86 memory
look at [https://wiki.osdev.org/Memory_Map_\(x86\)](https://wiki.osdev.org/Memory_Map_(x86))

Each processor has its Instruction Set Architecture (ISA)

Processor executes instructions stored in memory

- ➡ Each instruction is a bit string that the processor understands as an operation
 - arithmetic
 - read/write bit strings
 - bit logic
 - jumps
- ✓ ~2000 instructions on modern x86-64 processors