

## **Two basic computer architecture Which one is better**

There are different types of computer architecture, but the two basic ones are

- CISC (Complex Instruction Set Computer)
- RISC (Reduced Instruction Set Computer)<sup>1</sup>

They differ in how they process instructions and how they use memory.

### **CISC :**

processors have a single processing unit, external memory, and a small register set with hundreds of different instructions. They can execute complex tasks with fewer instructions, but they also need more cycles per instruction and more power consumption

### **RISC :**

processors have multiple processing units, internal memory, and a large register set with fewer and simpler instructions. They can execute simple tasks with more instructions, but they also need fewer cycles per instruction and less power consumption

### **Which one is better depends ??**

RISC is better than CISC

because it has a simpler and smaller set of instructions that can be executed faster and more efficiently than CISC instructions.

RISC also has a lower risk and cost of design and can use less chip space.

CISC has a more complex and larger set of instructions that can work directly from the RAM<sup>5</sup>, but this makes them harder to decode and execute