

# RISC vs CISC

## **RISC (Reduced Instruction Set Computer):**

- Idea:

Keep it simple and quick.

- Instruction Set:

Has a small set of basic instructions.

- Instructions:

Each instruction does a simple and specific job.

- Speed:

Instructions are designed to be executed very quickly, often in one clock cycle.

- Performance:

Well-suited for tasks that need fast and efficient execution.

- Example:

Think of it like a car that's really good at going fast on a straight road.

## **CISC (Complex Instruction Set Computer):**

- Idea:

One-stop-shop for many tasks.

- Instruction Set:

Has a wide variety of complex instructions.

- Instructions:

Instructions can do more complex operations in a single step.

- Versatility:

Good for handling various types of tasks without needing many different instructions.

- Example:

Imagine a tool that can chop, peel, and slice – it's versatile but might take a bit longer for each task.