























### Algorithm Design

## Reduction

# Parallel Processing Notations

#### Hardware Architecture

## that can process one data item at a time (typical data items

A processor is a machine that can execute computer programs.

Analogy: scalar and vector arithmetic.

### instruction to operate simultaneously on multiple data items.

A vector processor, by contrast, can execute a single

A scalar processor is the simplest class of computer processors

## being integers or floating point numbers).