The key point for programmers is that all of the parallelism in a sequential program is sequential parallelism.

In short, modern processors are highly parallel systems.

Modern processors have highly parallel architectures to exploit the parallelism in programs.

The main motivation for executing program instructions in parallel is to enhance the performance of sequential programs.

The choice of instruction level parallelism (ILP) is determined by the nature of the application, the instruction set architecture, and the hardware resources available.

Parallel in Computer Programs

Parallelism in computer programs is achieved by exploiting the inherent parallelism in the data and instruction sets of modern processors.

The potential for parallelism in modern processors is significant, and the key is to identify the opportunities for parallel execution.

The main motivation for executing program instructions in parallel is to enhance the performance of sequential programs.