

Practical 1

Objective:

Identify the basic objectives and outcomes of parallel computing

Theory:

Parallel computing is a form of computation in which many calculations are carried out simultaneously, operating on the principle that large problems can often be divided into smaller ones, which are then solved concurrently ("in parallel"). There are several different forms of parallel computing: bit-level, instruction level, data, and task parallelism.

Parallelism has been employed for many years, mainly in high-performance computing, but interest in it has grown lately due to the physical constraints preventing frequency scaling.

As power consumption (and consequently heat generation) by computers has become a concern in recent years, parallel computing has become the dominant paradigm in computer architecture, mainly in the form of multi-core processors.

Objectives –

1. To learn how to design parallel programs and how to evaluate their execution.
2. To understand the characteristics, the benefits and the limitations of parallel systems.
3. To write implementation code in different parallel programming environments.

Outcomes –

1. Be able to reason about ways to parallelize a problem.
2. Be able to evaluate a parallel platform for a given problem.
3. Become familiar with programming with OpenMP, MPI and CUDA.

Conclusion:

Thus we have acquainted ourselves with the basics of parallel computing and identified the objectives to be accomplished and the outcomes to be generated.

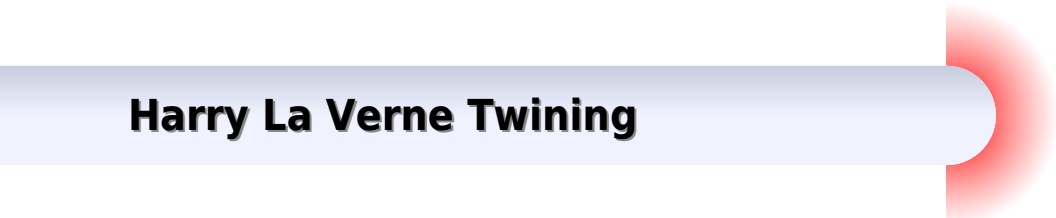
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Parallel Processing Lab Manual

Harry La Verne Twining



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