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## Programming

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In the simplest sense, parallel computing is the simultaneous use of multiple compute resources to solve a computational problem: A problem is broken into discrete parts that can be solved concurrently. Each part is further broken down to a series of instructions. Instructions from each part execute simultaneously on different processors.

## Introduction to Parallel Computing

Parallel Computing – It is the use of multiple processing

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elements simultaneously for solving any problem. Problems are broken down into instructions and are solved concurrently as each resource which has been applied to work is working at the same time.

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## Introduction to Parallel Computing

An overview of practical parallel computing and principles will enable the reader to design efficient parallel programs for solving various computational problems on state-of-the-art personal computers and computing clusters. Topics covered range from parallel algorithms, programming tools, OpenMP, MPI and OpenCL, followed by experimental measurements of parallel programs' run-times, and by engineering analysis of obtained results for improved parallel execution

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The total communication time is  $(t_s + t_w)(5 \log q + 2n/q)$   
resulting in the parallel run time given by the following  
equation:  $TP = n^3/p + (t_s + t_w)(5 \log(p/n^2) + 2n^3/p)$  The  
communication time of this variant of the DNS algorithm  
depends on the choice of the parallel matrix multiplication

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algorithm used to multiply the  $(n/q) \times (n/q)$  submatrices.

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OpenMP have been selected. The evolving application mix for parallel computing is also reflected in various examples in the book. This book forms the basis for a single concentrated course on parallel computing or a two-part sequence. Some suggestions for such a two-part sequence are: Introduction to Parallel Computing: Chapters 1–6.

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