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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 elements simultaneously for solving any problem. Problems are broken down

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Solution Manual are solved 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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Solutions to Selected Problems The solutions are password protected and are only available to lecturers at academic institutions.

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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 performances.

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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 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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