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Michel J. Quinn (Topic  
1.1 \u0026 1.2)

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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

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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 into instructions  
and are solved  
concurrently as each

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resource which has been applied to work is working at the same time.

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selected problems. For some problems the solution has been sketched, and the details have been left out.

When solutions to problems are available directly in publications, references have been provided.

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measurements of parallel programs' run-times, and by engineering analysis of obtained results for improved parallel execution performances.

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contains solutions to  
selected problems. For

some problems the  
solution has been  
sketched, and the...

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The total  
communication time is



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$(t_s + t_w)(5 \log q + 2n/q)$

resulting in the parallel  
run time given by the

following equation:  $T_P$

$= n^3/p + (t_s + t_w)(5 \log(p/n^2) + 2n^3/p)$  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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source of information on almost all aspects of parallel computing from introduction to architectures to programming paradigms to algorithms to programming standards. It is the only book to have complete coverage of traditional Computer Science algorithms (sorting, graph and matrix

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OpenMP have been

selected. The evolving

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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

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