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protocols

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PROCESSING

1. Introduction to

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1.1 Four Decades of  
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Ebook written by

Hesham El-Rewini,

Mostafa Abd-El-Barr.

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advanced computer architectures that utilize parallelism via multiple processing units. While parallel computing, in the form of internally linked processors, was the main form of parallelism, advances in computer networks has created a new type of parallelism in the form of networked autonomous computers.

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**COMPUTER  
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PARALLELISM ...**

Much of parallel  
computer architecture is  
about Designing  
machines that overcome  
the sequential and  
parallel bottlenecks to  
achieve higher  
performance and  
efficiency Making  
programmer ' s job  
easier in writing correct

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and high-performance  
parallel programs 37

Computer Architecture:  
Parallel Processing  
Basics

Parallel processing has  
been developed as an  
effective technology in  
modern computers to  
meet the demand for  
higher performance,  
lower cost and accurate  
results in real-life

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computing, optimal  
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Computer architecture deals with the physical configuration, logical structure, formats, protocols, and operational sequences for processing data, controlling the configuration, and controlling the operations over a computer. ...

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via multiple processing  
units.

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Computing and

Applied. ... are usually

divided into a range of

steps performed by

different processor units

allowing instructions to

be processed in parallel.

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conventional computer,  
a parallel processing  
system is able to carry  
out concurrent data  
processing to attain  
faster execution time.

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The idea of parallel processing is to speed up the computer processing capability also increase its throughput, i.e., the amount of processing that can be done during an interval of time.

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