

Fundamentals of parallel computer architecture

This slide shows the fundamentals of parallel computer architecture that can be found in a wide range of parallel computers, which are categorized according to the amount of parallelism supported by the hardware components. It includes multi-core computing, symmetric multiprocessing, and distributed computing.



Multi-core Computing

- Computer-processed integrated circuit containing two or more different processing cores that may execute program instructions simultaneously
- Architectures are divided into two categories: heterogeneous, which includes cores that are not similar, and homogeneous, which includes only identical cores
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Symmetric Multiprocessing

- Single operating system manages multiprocessor computer architecture with two or more homogenous, independent processors that treat all processors equally in symmetric multiprocessing
- Each processor may operate on any activity without worrying about whether or not the data needed for that operation is in memory, and they can be linked using on-chip mesh networks
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Distributed Computing

- Components of a distributed system are scattered among several networked computers
- Networked computers communicate using HTTP, RPC-like message queues, and connectors to coordinate their tasks
- Characterized by component concurrency and component failures independent of one another
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Fundamentals Of Parallel Processing

Terry C. Jones



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