

## Parallel Computers Architecture And Programming V Rajaraman|dejavuserifbi font size 11 format

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Parallel programming languages and parallel computers must have a consistency model (also known as a memory model). The consistency model defines rules for how operations on computer memory occur and how results are produced. One of the first consistency models was Leslie Lamport's sequential consistency model. Sequential consistency is the property of a parallel program that its parallel execution produces the same results as a sequential program. Specifically, a program is ...

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The possibility for parallel execution of computations strongly depends on the architecture of the execution platform. This chapter gives an overview of the general structure of parallel computers which determines how computations of a program can be mapped to the available resources such that a parallel execution is obtained. Section 2.1 gives a short overview of the use of parallelism within ...

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