Abstract

In a heterogeneous distributed systems that involves parallel processing it is very significant to include its computational capability and its dynamism as a major consideration. In such a distributed and a dynamic environment, the application and usage of available resources vary in a higher magnitude. In order to perform maximum exploitation of all available resources for parallel processing, efficient and intellectual scheduling is the need of the hour. Current grid environment regards clusters as separate domains. As resources are highly heterogeneous, dynamic and are separated largely by geographical distances, efficient job scheduling is a challenge. In this paper, we have discussed about a scheduling model that performs job sequencing based on shortest processing time and earliest due date. The simulation results show a considerable improvement in the resource utilization, throughput and reduction in waiting time as compared to others.

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Job Scheduling Model with Job Sequencing and Prioritizing Strategy in Grid Computing

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Index Terms
- Computer Science
- Grid Computing

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Keywords
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