Abstract

Scheduling of jobs is a challenging problem in grid. Efficient job scheduling is essential for the effective utilization of the resources. We propose a grid model as a collection of clusters. In this paper, we apply Divisible Load Theory (DLT) and Least Cost Method (LCM) to model the grid scheduling problem involving multiple worker nodes in each cluster. We propose a hybrid job scheduling algorithm that minimizes the overall processing time of the job in a grid system that consists of heterogeneous hosts. The results show that the proposed algorithm is feasible and
An Efficient Hybrid Job Scheduling Algorithm for Computational Grids

improves the makespan considerably.

Reference

13. Amril Nazir, Hao Liu, Søren-Aksel Sørensen, "A Rental-Based Approach in a Cluster or

**Index Terms**

Computer Science  
Algorithm

**Key words**

Grid
Job Scheduling
Cluster
Coordinator Node
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