



SURVEY ARTICLE

Survey of Resource and Grouping Based Job Scheduling Algorithm in Grid Computing

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Abstract— Grid computing is distributed computing environment, which enabling the dynamic selection, sharing resources based on availability, capability, performance or cost of these computing resource and simultaneously also based on organization specific requirements. The main purpose of Grid computing is to share the computational power, storage memory, network resource to solve a large problem. The goal of the job scheduler should be maximize the resource utilization and minimize the processing time of the job. Although Grids has been used for executing application with compute-intensive jobs but there are several applications with light weight jobs. The job grouping strategy improves the performance of application with large number of small processing requirements jobs. Motivation of this paper is to encourage the researcher in field of grid computing, so that they can understand easily the concept of job grouping strategy and can contribute in developing more efficient job grouping based scheduling algorithm.

Key Terms: - *Grid computing; scheduling algorithm; Grouping strategy; Job scheduling; Load balancing*
