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RESEARCH ARTICLE

An Efficient Resource Management and Scheduling Technique for Fault Tolerance in Grid Computing

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Abstract— In Grid computing, scheduling techniques are based on queues, easy to implement but not very effective in mapping jobs after well determined parameters. If a certain user needs a specific resource, usually she/he has to log on directly on specific resource and to access the scheduling service. A more advanced method is to have a schedule-based approach. This approach is usually most effective when the submitted jobs are in batch mode (a new task will trigger either rescheduling, either will be placed in a temporary queue if it has a low priority, until a significant amount of jobs are queued, depending on the scheduling algorithm used). The proposed technique will give the user a single view where the user can log into the Grid resource management system, submit jobs and check the status of his jobs just like he does when he submits a job to any single resource.

Key Terms: - Alea2; EASY; EDF; FCFS; Grid

Full Text: http://www.ijcsmc.com/docs/papers/July2013/V2I7201327.pdf