Abstract

Grid systems interconnect heterogeneous and geographically distributed resources to form a network which satisfy user's needs. Resource Management is its central component and involves managing system resources. It is responsible for accepting user's requests and matching it to available resources which can be accessed by the user. Schedulers are applications which manage jobs including allocating resources for specific jobs. When there are many processes in a queue, the order in which jobs are executed is decided by a scheduling algorithm. This paper proposes and investigates the performance of varied task execution for proposed weighted round robin scheduling algorithm. Simulations evaluate the proposed method's performance and results demonstrate that the proposed method performs satisfactorily.

References

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Performance Evaluation of Weighted Round Robin Grid Scheduling


Index Terms

Computer Science
Software Engineering

Keywords

Grid computing   Schedulers   Resource management   Round Robin scheduling