Implementation of Improved Multi-Queue Job Scheduling Algorithm (IMQJSA) for Load Balancing in Cloud Computing

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Abstract

In this research paper, authors describe how to manage number of tasks simultaneously at a same time on virtual machines on cloud by utilizing enhanced MQS (Multi-Queue Scheduling). This proposed enhanced multi-queue scheduling method is works on Fuzzy Logic. The main significance to utilize this proposed method on fuzzy logic is to achieve maximum accuracy in results. This enhanced multi-queue scheduling method on fuzzy logic at first grouped the number of jobs according to burst time calculated by some formula. Membership Function plays an important role in enhanced multi-queue job scheduling. It gives more efficient results with decreased execution time as well as overhead. This new designed methodology helps organizations or enterprises to reduce the burden of load balancing when run their applications on cloud. Hence, the use of fuzzy logic in enhanced multi-queue job scheduling is an effective way to handle simultaneous jobs at a same time that also helpful to reduce overhead and provide live

References


**Index Terms**

Computer Science

Distributed Systems

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**Keywords**

Cloud computing, Load balancing parameters and techniques, Membership function, Load, MQS scheduling, cloud server, throughput, and execution time.