Abstract

Job scheduling is one the complicated problem in Cloud Computing. We intend a grouping method to develop the combinational backfill algorithm based on smadium and long queue technique using random fashion. The proposed algorithm helps to improve the resource gap, reduce the system idle time and helps to attain high resource usage and provide quality system in cloud environment. To make the most efficient use of the resources, accomplish the
optimized Resource Filling Technique for Job Scheduling in Cloud Environment. It is not possible to predict the job execution time in cloud environment. Hence the scheduler must be dynamic. Previous Scheduling strategies like FCFS, SJF, Round Robin and CBA are deficient in filling the Resources gap effectively and create more fragmented space. The Proposed work, Optimized Resource Filling (ORF) properly utilize the resources and increase the unused available working space and reduce starvation, when compared to traditional and balance spiral method. Its ultimate goal is to produce high usage of available resources, balance the system and reduce system unused time and to improve throughput of the system. This paper introduce smadium concept for cloud resource management. ORF tries to fill the unused space created by the scheduler.

References

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**Index Terms**

Computer Science  
Cloud Computing

**Keywords**

Optimized Resource Filling  
Smadium  
Random Fashion.