Abstract

Cloud computing, a buzzword of today’s that combines the power of both parallel and distributed computing. It delivers its output in the form of service(s) that can be IaaS, SaaS and PaaS (Infrastructure, Software and Platform-as-a-Service). In Cloud computing, we won’t compute on local machines, but on someone premises operated by someone else. Actually Cloud environment deals with dissimilar kinds of virtualized resources. So, to allocate and schedule resources efficiently it requires noticeable efforts. One of the core phases is task scheduling which plays a vital role. It can be seen as the finding an optimal assignment of set of task(s) over the available resource set to obtain desired goals like: cost, quality of service and makespan etc. Even, most of the organizations already started implementing CTQ model (less COST, minimum TIME and assured QUALITY) for attaining maximum return with assured quality. The objective of this paper is to review various independent task scheduling techniques under heuristic mapping category so that we can apply techniques according to current requirement.
References

8. What are the differences between heuristics and metaheuristics? https://www.researchgate.net/post/What_are_the_differences_between_heuristics_and_metaheuristics.
2006 Oct (pp. 58-61). IEEE.


Index Terms

Computer Science  Distributed Computing

Keywords

Cloud Computing, Scheduling, Heuristic, Independent Task, Immediate mode, Batch mode.