Abstract

Grid computing system consists of machines with varied computational capabilities. These systems assist in the computing of large amounts of complicated tasks in scientific and engineering areas. It may operate in an environment where system performance features degrade due to unpredictable changes, inaccuracies in the estimation of task execution times etc. These systems need robustness. The robustness guarantees limited degradation in system performance. The following research is based on the requirement of robustness for resource allocation in grid computing environment. Four heuristic techniques for resource allocation are used to compare the robustness.

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Index Terms

Computer Science

Distributed Computing
Keywords
Grid Computing System  Robustness  Makespan Heuristic Resource Allocation