Abstract

In a clustered system, the general problems in load balancing are: ill-planned task allocation, poor performance, long response time, and low throughput. The work focuses on a novel algorithm of load balancing, which is based on the entropy value for both wired and wireless connections. To improve the performance of a system the scheduling and migration policy are calculated on entropy value. The factors like the configuration of server and client, benchmark performance, time of communication between client and server systems and the system speed are considered. This novel algorithm is compared with traditional algorithm, like Round robin and the results shows that the time of execution reduces and the system performance is increased.

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Index Terms

Computer Science
Software Engineering

Keywords

Load balancing, entropy value calculation, clustered system.