Load Balancing in Grid Environment using Machine Learning - Innovative Approach

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Authors:
Ashish Revar
Malay Andhariya
Dharmendra Sutariya
Prof. Madhuri Bhavsar

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Abstract

Grid computing creates the illusion of a simple but large and powerful self-managing virtual computer out of a large collection of connected heterogeneous systems sharing various combinations of resources which leads to the problem of load balance. The main goal of load balancing is to provide a distributed, low cost, scheme that balances the load across all the processors. To improve the global throughput of Grid resources, effective and efficient load balancing algorithms are fundamentally important. Focus of this paper is on analyzing Load Balancing requirements in a Grid environment and proposing an algorithm with machine learning concepts to find more efficient algorithm.

Reference
- Javier Bustos Jimenez, "Robin Hood: An Active Objects Load Balancing Mechanism for Intranet", Departamento de Ciencias de la Computacion, jbustos@dcc.uchile.cl, Universidad de Chile.

**Index Terms**

Computer Science  
Distributed Systems

**Key words**

Grid Environment  
Machine Learning