

Jordan University of Science and Technology

A Prediction Strategy for Decision Making of Remote Procedure Call

Authors: Ismail Hmeidi, Ahmad Dalaleh

Abstract: Abstract: - In this paper, a decision making strategy for commands' transfer in distributed systems is introduced. A mathematical model based on a prediction strategy is also introduced. This strategy supports a decision that is to be taken for job transfer in a distributed system. Generally speaking, the arriving tasks are to be performed locally or remotely in distributed systems. The problem of executing a job locally, remotely or even downloading a proper function located at a different host is to be investigated. Moreover, a good decision minimizing the performance time as well as maximizing the usage of different hosts with different potentials is needed. The numerical results presented in this paper reveal the power of the proposed strategy.