

Abstract

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Adaptive Function of Utility Driven Distribution for Mobile Agent Scheduling

Mobile agent environment is a composition of migrating programs between hosts. These programs (mobile agents) provide services for hosts but they need to fairly distribute themselves throughout host machines. A market strategy could be used to regulate the action of mobile agents among the network. Prices are virtually set to derive the allocation of resources to agents. This of course affects demands of agents to resources $\&\#97;\&\#110;\&\#100;$ so their utility driven from them. This paper proposes a new strategy in making a fair mobile agent distribution among the network hosts. This is done through the adaptive function of utility driven distribution for mobile agent scheduling. A prototype model is synthesized to simulate the network attitude. This was done using an equation that dynamically adjusts to the current state of the distributed agents among the network servers (hosts). A discussion about the performance of the network is provided.