Fault-Tolerance Protocols for Mobile Agent Systems

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Abstract

Mobile agent system has been proposed for various kind of application domains such as E-commerce and mobile computing. These domains are fault-sensitive areas. Before deploying agents system, we have to guarantee that whenever errors occur, recovery actions should be taken. In this paper, we will define the mobile agent model and the fault scenarios. We will discuss and propose some simple fault detection mechanism. Once, the system crashes, we may lose part or all of the data in an agent. Therefore, it is desirable to have a rollback recovery mechanism in the fault-tolerance design.

References

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