A QoS Aware Self Adaptive General Scheme to Solve GME Problem

Abstract

The Group mutual exclusion problem (GME) is a resource allocation problem which allows concurrency along with mutual exclusion. The concept of GME can be applied to various fields having varying quality of service (QoS) requirements. The present paper presents a self adaptive general scheme to solve GME problem using token-based approach. The striking feature of the scheme is that it considers QoS requirements, checks the QoS requirements time to time and adapts its parameters if there are deviations from the expected behavior. The dynamic analysis of the scheme has also been presented in the present exposition.

References


Index Terms

Computer Science Software Engineering

Keywords

Resource adaptive mutual exclusion Quality of Service.