Abstract

A deadlock is a situation where a process or a set of processes is blocked, waiting on an event that will never occur. In this case of a deadlock, the intervention of a process outside of those involved in the deadlock is required to recover from the deadlock. The formation and existence of deadlocks in a system lowers system efficiency. Therefore, avoiding performance degradation due to deadlocks requires that a system be deadlock free or that deadlocks be
quickly detected and eliminated. In this paper, we study deadlock handling strategies in distributed system. Several deadlock techniques based on various control organisations are described. Pros and cons of these techniques are discussed and their performance is compared.

References


Index Terms

Computer Science
Distributed Systems

Keywords
Deadlock Handling Techniques  Distributed Deadlock Detection  Path Pushing Algorithm