Abstract

As communication is important, it is not the entire thing rather something more interesting as well as complicated. Closely related is how processes cooperate and synchronize with one another. In a distributed system an application may have several processes that run concurrently on multiple nodes of the system. For correct results, several such distributed applications require that the clocks of the nodes are synchronized with each other. For concurrency we have used vector clock method. But there are several disadvantages. For that we have developed a new algorithm for vector clock method from which we can define the concurrency among processes. In our proposed algorithm the vector of each process's local clock consists of \((n+1)\) parameter where \(n\) is the number of processes in the system. The \((n+1)\) th parameter is used as a flag which help to discuss the concurrency among different processes.

References


Index Terms

Computer Science
Information Sciences

Keywords

Distributed system Ordering Vector Clock Lamport's Algorithm
PVM(parallel virtual Machine)
Linux