عنوان مقاله:

Using Petri Nets For Resource ManagementModeling In The Operating Systems

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خلاصه مقاله:

Nowadays, with advances in computer science and increase in processor speed, modeling methods have found extensive applications in industrial fields. Petri Nets are one of these modeling methods. Petri Nets are based on graph theory and are applied specifically for concurrent and asynchronous applications. As executable models, they are capable of graphical description of complicated systems. On the other hand, development of hardware and other peripheral computer resources and development of various computer software systems call for efficient and powerful operating systems, so that users can use the software and hardware items in an effective manner. The purpose of this article is to study the application of Petri Nets for modeling resource management in operating systems with the aim of optimal utilization of resources and prevention of deadlock conditions in the system.

کلمات کلیدی:
Petri Nets,Deadlock,Operating System,Place,Transition

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