

{tag}

{/tag}

International Journal of Computer Applications

© 2014 by IJCA Journal

Volume 99 - Number 18

Year of Publication: 2014

Authors:

Abhishek Sirohi

Aseem Pratap

Mayank Aggarwal

10.5120/17475-8361

{bibtex}pxc3898361.bib{/bibtex}

### Abstract

CPU is a primary computer resource. So, its scheduling is central to operating system design. To improve both utilization and the speed of CPU we need to keep several processes in memory at a time that means we use the sharing and multiprogramming concepts. CPU scheduling determines which process run when there are multiple runnable processes CPU scheduling is necessary because it has a big effect on resources utilization and overall performance of the system. In this paper, we are giving an improved CPU Scheduling algorithm.

### Refer

### ences

- [http://en.wikipedia.org/wiki/Scheduling\\_\(computing\)](http://en.wikipedia.org/wiki/Scheduling_(computing))
- Sindhu M, Rajkamal R, Vigneshwaran P. An Optimum Multilevel CPU Scheduling Algorithm. 2010 International Conference on Advances in Computer Engineering
- Wei Zhao, John A. Stankovic. Performance Analysis of FCFS and Improved FCFS

Scheduling Algorithms for Dynamic Real-Time Computer Systems. IEEE 1989.

- Davender Babbar, Phillip Krueger. A Performance Comparison of Processor Allocation and Job Scheduling Algorithms for Mesh-Connected Multiprocessors. IEEE 1994.
- Umar Saleem and Muhammad Younus Javed. Simulation Of CPU Scheduling Algorithms. IEEE 2000.
- Snehal Kamalapur, Neeta Deshpande. Efficient CPU Scheduling: A Genetic Algorithm based Approach. IEEE 2006.
- Nikolaos D. Doulamis, Anastasios D. Doulamis, Emmanouel A. Varvarigos, and Theodora A. Varvarigou. Fair Scheduling Algorithms in Grids. IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, VOL. 18, NO. 11, NOVEMBER 2007.
- Xiao-jing Zhu, Hong-bo Zeng, Kun Huang, Ge Zhang. Round-robin based scheduling algorithms for FIFO IQ switch. IEEE 2008.
- Apurva Shah, Ketan Kotecha. Efficient Scheduling Algorithms for Real-Time Distributed Systems. 2010 1st International Conference on Parallel, Distributed and Grid Computing
- Devendra Thakor, Apurva Shah. D\_EDF: An efficient Scheduling Algorithm for Real-Time Multiprocessor System. IEEE 2011.
- Tong Li, Dan Baumberger, Scott Hahn. Efficient and Scalable Multiprocessor Fair Scheduling Using Distributed Weighted Round-Robin. ACM 2009.

Computer Science

### Index Terms

Algorithms

### Keywords

Scheduling Time Quantum