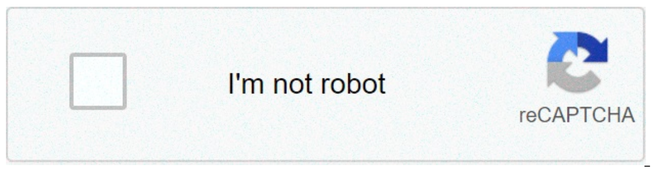

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In: 3rd IEEE/IFIP International Conf. on Internet, Uzbekistan (2007)Google Scholar To solve the problem multilevel feedback queue scheduling, allows a process to move between queues.The idea is to separate processes according to the characteristics of their CPU bursts. If a process uses too much CPU time, it will be moved to a lower-priority queue. This scheme leaves I/O-bound and interactive processes in the higher-priority queues. In addition, a process that waits too long in a lower-priority queue may be moved to a higher-priority queue. This form of aging prevents starvation.Fig: 19 In general, a multilevel feedback queue scheduler is defined by the following parameters:→ The number of queues. → The scheduling algorithm for each queue.→ The method used to determine when to upgrade a process to a higher priority queue.→ The method used to determine when to demote a process to a lower priority queue.→ The method used to determine which queue a process will enter when that process needs service. 1 Multilevel Queue Scheduling AlgorithmsAnother class of scheduling algorithms has been created for situations in which processes are easily classified into different groups. 2 3 Inter queue absolute prioritiesMultilevel Queues with absolute priority over lower-priority queues Fixed Priority 4 Multilevel Feedback Queue SchedulingUsually processes do not move between queues because of predefined priorities. This setup has: the advantage of low scheduling overhead, but the disadvantage of being inflexible. With Multilevel Feedback Queue scheduling a process can move between the various queues; aging can be implemented this way Multilevel-feedback-queue scheduler defined by the following parameters: number of queues scheduling algorithms for each queue method used to determine when to upgrade a process method used to determine when to demote a process method used to determine which queue a process will enter when that process needs service 5 Multilevel Feedback Queue Scheduling ExampleThe main idea is to serve the short CPU burst processes first Inter queue scheduling is absolute preemptive Three queues: Q0 – RR FCFS with time quantum 8 milliseconds Q1 – RR FCFS time quantum 16 milliseconds Q2 – FCFS A multilevel feedback queue is the most general scheme, it is also the most complex. Scheduling A new job enters queue Q0 which is served FCFS When it gains CPU, job receives 8 milliseconds If it does not finish in 8 milliseconds, job is moved to queue Q1 At Q1 job is again served FCFS and receives 16 additional milliseconds If it still does not complete, it is preempted and moved to queue Q2 Multilevel Feedback Queue Scheduling (MLFQ) CPU SchedulingPrerequisite – CPU Scheduling, Multilevel Queue Scheduling This Scheduling is like Multilevel Queue(MLQ) Scheduling but in this process can move between the queues. Multilevel Feedback Queue Scheduling (MLFQ) keep analyzing the behavior (time of execution) of processes and according to which it changes its priority.Now, look at the diagram and explanation below to understand it properly. Now let us suppose that queue 1 and 2 follow round robin with time quantum 4 and 8 respectively and queue 3 follow FCFS.One implementation of MFQS is given below – When a process starts executing then it first enters queue 1.In queue 1 process executes for 4 unit and if it completes in this 4 unit or it gives CPU for I/O operation in this 4 unit than the priority of this process does not change and if it again comes in the ready queue than it again starts its execution in Queue 1.If a process in queue 1 does not complete in 4 unit then its priority gets reduced and it shifted to queue 2.Above points 2 and 3 are also true for queue 2 processes but the time quantum is 8 unit.In a general case if a process does not complete in a time quantum than it is shifted to the lower priority queue.In the last queue, processes are scheduled in FCFS manner.A process in lower priority queue can only execute only when higher priority queues are empty.A process running in the lower priority queue is interrupted by a process arriving in the higher priority queue.Well, above implementation may differ for example the last queue can also follow Round-robin Scheduling. Problems in the above implementation – A process in the lower priority queue can suffer from starvation due to some short processes taking all the CPU time. Solution – A simple solution can be to boost the priority of all the process after regular intervals and place them all in the highest priority queue. What is the need of such complex Scheduling? Firstly, it is more flexible than the multilevel queue scheduling.To optimize turnaround time algorithms like SJF is needed which require the running time of processes to schedule them. But the running time of the process is not known in advance. MFQS runs a process for a time quantum and then it can change its priority(if it is a long process). Thus it learns from past behavior of the process and then predicts its future behavior.This way it tries to run shorter process first thus optimizing turnaround time.MFQS also reduces the response time.Example – Consider a system which has a CPU bound process, which requires the burst time of 40 seconds.The multilevel Feed Back Queue scheduling algorithm is used and the queue time quantum ‘2’ seconds and in each level it is incremented by ‘5’ seconds.Then how many times the process will be interrupted and on which queue the process will terminate the execution? Solution – Process P needs 40 Seconds for total execution. At Queue 1 it is executed for 2 seconds and then interrupted and shifted to queue 2. At Queue 2 it is executed for 7 seconds and then interrupted and shifted to queue 3. At Queue 3 it is executed for 12 seconds and then interrupted and shifted to queue 4. At Queue 4 it is executed for 17 seconds and then interrupted and shifted to queue 5. At Queue 5 it executes for 2 seconds and then it completes. Hence the process is interrupted 4 times and completes on queue 5. Advantages:It is more flexible.It allows different processes to move between different queues.It prevents starvation by moving a process that waits too long for lower priority queue to the higher priority queue.Disadvantages:For the selection of the best scheduler, it require some other means to select the values.It produces more CPU overheads.It is most complex algorithm.This article is contributed by Ashish Sharma. If you like GeeksforGeeks and would like to contribute, you can also write an article using contribute.geeksforgeeks.org or mail your article to contribute@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks. Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above. Attention reader! Don’t stop learning now. 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