

1. 1-15	priorities of Variable class in windows	21. process bounded to one queue	Multilevel feedback queue: Low scheduling overhead, but not flexible
2. 16-31	priorities of real time class in windows	22. Process can move between queues	Multilevel feedback queue: Flexible but very complex, aging can be implemented this way
3. Aging	as time progresses, increase the priority of the waiting processes	23. processor affinity	process has affinity for processor on which it is currently running
4. Asymmetric multiprocessing	one processor accesses the systems data structures which eliminates the need for data sharing	24. response	when a request is submitted until the first response is produced
5. convoy effect	short process behind long process will be waiting for the long process to finish	25. Round Robin	Each process gets a small unit of CPU time, after this time has elapsed, the process is pre-empted and added to the end of the ready queue
6. CPU Scheduler	Selects from processes in memory that are ready to execute and allocates to the CPU	26. Shortest Job First	Associate each process to the length of its next CPU burst, use these lengths to schedule the process with the shortest time
7. deterministic modeling	takes a workload and defines the performance of each algorithm for that workload	27. Sort Affinity	OS attempts to keep a process running on the same processor but no guarantees
8. deterministic modeling	Processes that run day to day vary, There is no static set of processes to use for ____	28. Starvation	low priority processes may never execute, waiting forever
9. fixed priority scheduling	do all from foreground, then all from background), possibility of starvation	29. Symmetric multiprocessing (SMP)	each processor is self-scheduling, all processes are in a common ready queue or each processor has its own private queue
10. hard affinity	Linux supports that	30. time slice	each queue gets a certain amount of CPU time that it can schedule among its processes, EX: 80% for foreground, 20% for background
11. idle thread	If no thread is ready, dispatcher will execute a special thread	31. turnaround	submission of a process to the time of completion
12. Linux Scheduling	Real-time are assigned value range 0-99, Normal tasks are assigned priorities from 100-139, CFS assigns a proportion of processing time to each normal task	32. windows scheduling	Priority based, pre-emptive scheduling, 32 level priority scheme to determine the order of thread execution
13. Max CPU utilization	scheduling criteria: keep CPU as busy as possible		
14. Max Throughput	number of processes that complete their execution per time unit		
15. memory management	thread running at priority 0 in windows		
16. Min Response time	amount of time it takes from when a request was submitted until the first response is produced, time it takes to start responding, not to output the response		
17. Min Turnaround time	amount of time to execute a process		
18. Min waiting time	amount of time a process has been waiting		
19. multilevel queue	Ready queue is partitioned into separate queues: foreground (interactive) background (batch), Processes are permanently assigned to one queue, - Both queues use different scheduling algorithm		
20. priority scheduling	Priority number is associated with each process, CPU is allocated to the process with the highest priority (smallest number)		