OS HW2

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* 4.2

When a page fault happens in a kernel thread, another kernel thread can be switched in to use the interleaving time in a useful manner.

* 4.4

No, because the OS deals with only one process and won’t schedule the different threads of the process on separate processors.

* 4.13
  + (a)

Some of the processors would remain idle since the scheduler maps only kernel threads to processors and not user-level threads to processors

* + (b)

It is possible that all of the processors might be utilized simultaneously. However, when a kernel thread blocks inside the kernel, the corresponding processor would remain idle.

* + (c)

A blocked kernel thread could be swapped out in favor of another kernel thread that is ready to execute, thereby increasing the utilization of the multiprocessor system.

* 5.6
* 5.8
* 5.10

Priority, because process with smaller priority may never be executed.

* 5.15
  + FCFS

Discriminate against short processes because if it arrives after long processes, it will have to wait a long time until the long ones finish executing.

* + RR

Treats all processes equally, short processes can be finished earlier since they take less time to execute.

* + Multilevel feedback queues

Discriminating favorably toward short jobs.

* 6.4
* 6.10
* 6.11