

Analysys

In order to test the performance of the different schedulers, we implemented a user application called env. The test forks into two different processes. both processes performing I/O and calculations tasks, in addition to some system calls. At the end of the test, the "father" process prints out the performance stats. We ran the test 10 times for each scheduler, and these are the average results:

	Round-Robin	SJF	FCFS
Sleeping process mean	1	1	1
Running process mean	11	11	12
Runnable process mean	11	13	13
Program running time	24	22	21
CPU utilization	24%	17%	18%

We conclude that the running time of each process the same for all schedulers. However, processes spend more time in runnable state when using SJF and FCFS schedulers. We believe that the reason for that is the time each scheduler choose the process to run next.