

4.9 Hanewinkel (Simulation)

1. a. The CPU should be in 80% utilization, or less for a wait for switch time 90% - 95%. I know this as there must be usages of the CPU to complete the processes, the only possible down time would be with context switches.
2. b. Yes it was 100% usage
2. a. Should take 200 ms for complete 80% usage as ECO requires some time to wait
3. Time was up, CPU 50%, 49.40%
3. a. Switching the order should wait as it could cause the program to take longer to execute by waiting for I/O to completely finish before continuing

b. It does matter, but it was actually more efficient, I suspect this is because while it was waiting for I/O it executed the normal processes

c. This took time to finish. I suspect this is because rather than doing other work while waiting is just waited, causing the time to bleed

d. This should just as fast as simply running IO first & not of running -S SWITCH-ON-END, as now it switches on waiting rather than being forced to wait for I/O to finish

e. It appears the CPU still runs in a good time, as the CPU still can't switch while it waits for I/O to be finished. The difference is what order to run I/O in process when they're ready. which shouldn't make a difference.

7. CPU usage time was 100%
It may be smart to run To immediately as it could wait again in the future when it reappears from the TIO again

8. It + opens the most efficient method to run immediately for TIO & to switch on TD,