

ECE 443 - Homework #3

Collin Heist

September 16, 2019

1 Findings

According to the Tracealyzer program, the Idle task takes up about 0.843% of the CPU. This is about what I expected, especially for a program that switches to the idle task so frequently; although in a larger program I suspect this should be much smaller.

I suspect that the reason Task 2 takes up slightly (0.5%) more CPU usage is entirely related to where I stopped the program. However, I am not sure about this.

2 Results

Below is a screen capture of the Actor Statistics Report. As expected, the percent of the time that the CPU spends on the non-idle tasks is significantly higher than that of the idle task.

Actor	Count	CPU Usage	Execution Time			Response Time		
			Min	Avg	Max	Min	Avg	Max
IDLE	1	0.843	2.402	2.402	2.402	285.001	285.001	285.001
Tst1	1	49.332	140.598	140.598	140.598	284.983	284.983	284.983
Tst2	1	49.825	142.001	142.001	142.001	284.001	284.001	284.001

Figure 1: Actor Statistics Report