COMP3705/4705 – Week 1 Assignment - Grade Sheet – Fall 2017

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1. Program compilation and execution: 18 / 20 points

3 Code is "clean" - all constants declared using #define, functions used where appropriate, etc… (5 points)

5 Program compiles (5 points)

5 Program executes without crashing (5 points)

5 Program executes all commands correctly, in order, inside an infinite loop (5 points)

2. Functionality: 60 / 60 points

8 LED lights flash three times with a period of one second (8 points)

8 Program delays for 1 second + random value up to one second after flashing LEDs (8 points)

8 LEDs are illuminated to indicate the start of response timing (8 points)

8 LEDs turn off and stop time is determined when button is pressed (8 points)

15 Difference in time is correctly computed (accounting for overflow) and stored in an array (15 points)

8 After ten samples min, max, average, and median values are computed in microseconds and printed out (8 points)

5 Program delays one second before next loop iteration (5 points)

3. Sorting: 20 / 20 points

20 Sort algorithm implemented correctly (20 points)

Final Grade: 98 / 100 points

Additional Remarks:

-hardcoded values should be macro constants (#define) and could have more appropriate function usage (sort, etc)
-good job using timerafter() call to put value into t, but be aware in the future that its always good to resample the timer when there are any instructions between the time and when you sample. Instructions take (a small) amount of time that makes operations like that pretty much right, but not exact. No points deducted this time just an observation / remind. In yur code this would affect the last delay for 1 sec. If you have questions, come to office hours and ask me about it.
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Reviewed by: Nathan Egan