PS7B

KRONOS TIME CLOCK: FULL CHALLENGE

In this assignment, we continue the analysis of the Kronos InTouch time clock logs.

DETAILS

Here is a summary of the whole assignment:

1. Verify device boot up timing (already done in part A.)

2. Verify device services startup

3. Verify device software upgrades.

Extend you code from PS7a to implement service start-up verification:

- As you process the device boot section of the log, collect and store the information on service start-up.

- After you print the device boot report (whether failed or not), print the list of services, as in the samples. Any service that hasn't completed starting at the end of device boot is considered failed to start.

- Do not accept service start-up completion lines after the end of the device boot section.

Then implement softload verification. For each softload section you should extract 4 lines from the log:

- Start of softload

- Original version line

- New version line

- End of softload

Collect all the information in the softload section before printing the output.

You must use regular expressions to parse the file.

SUBMIT

Submit the following:

- Your source code `.cpp` file and any header file.

GRADING RUBRIC

Core implementation: 2

(full & correct implementation = 2 pts; nearly complete = 1 pts; part way=0.5 pts)

Use of Boost time methods: 0.5

Output files included: 2

(full & correct = 2 pts; partial = 1 pt)

Makefile: 0.5

(Makefile included and has rules for "all" and "clean")

Readme: 1

(0.5 pts for describing regexs in readme; 0.5 pts for discussion)

Total: 6

 You code should pass the cpplint, otherwise 2 points will be deducted.