

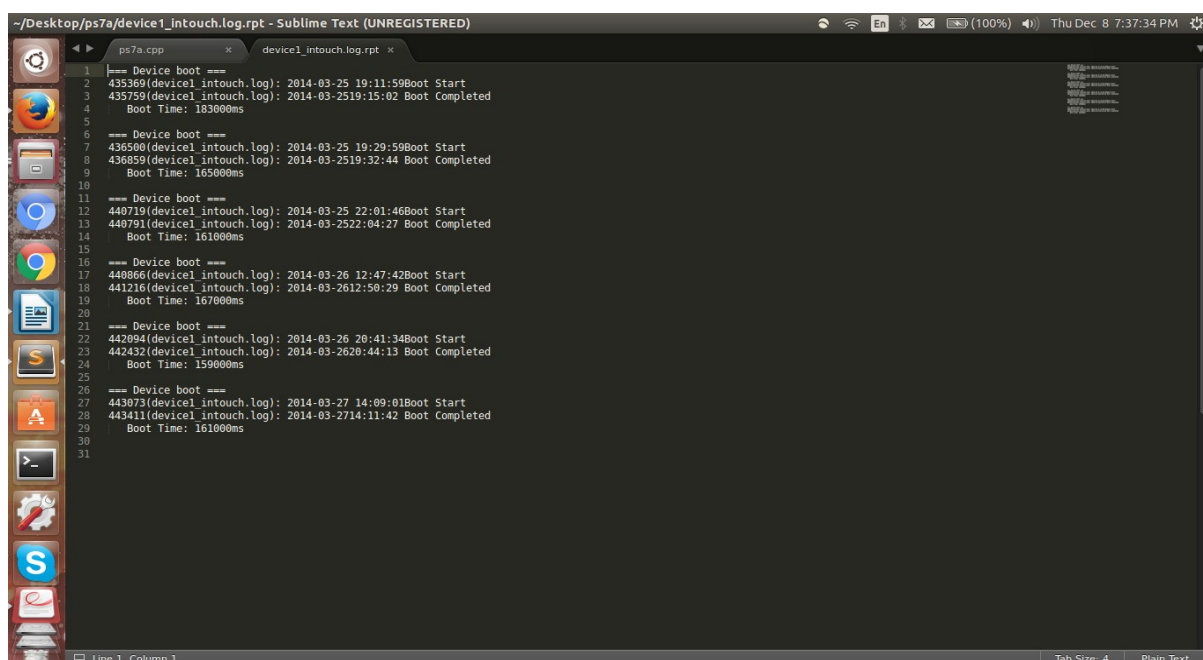
## PS7: Kronos Intouch Parsing

### PS7a:

The Kronos Intouch was a interesting assignment to work on. The objective of this assignment was to implement a scan that can go through the inTouch log files finding specific lines and outputting them into a output file. To accomplish this, we needed to learn about regex commands. The assignment wanted us to find a specific line that started with *(log.c.166) server started* and to find the completion of the boot. We needed to find the elapsed time in between the start time and end time.

One library that was needed to accomplish this assignment was the boost regex software. This software was to have the ability to use functional regex commands and use functions that could recognize them. To start, I to use the *using* function to shorten the deceleration type it make it easier. I created regex commands for the start line and end line. I went through each line and checked each time. If the start exits but the end doesn't, it will give a incomplete error. After it completes the loop, I would subtract the end by the start to get the total elapsed time.

After accomplishing this assignment, I learned how to use regex commands and how to use they can be useful in the future commands. Formating the output file to look specific a specific output was a great skill when getting a job. Also, knowing the what functions are from the boost regex library was also a plus.



```
--/Desktop/ps7a/device1_intouch.log.rpt - Sublime Text (UNREGISTERED)
1  === Device boot ===
2  435369(device1_intouch.log): 2014-03-25 19:11:59Boot Start
3  435759(device1_intouch.log): 2014-03-2519:15:02 Boot Completed
4  Boot Time: 183000ms
5
6  === Device boot ===
7  436500(device1_intouch.log): 2014-03-25 19:29:59Boot Start
8  436859(device1_intouch.log): 2014-03-2519:32:44 Boot Completed
9  Boot Time: 165000ms
10
11 === Device boot ===
12 440719(device1_intouch.log): 2014-03-25 22:01:46Boot Start
13 440791(device1_intouch.log): 2014-03-2522:04:27 Boot Completed
14 Boot Time: 161000ms
15
16 === Device boot ===
17 440866(device1_intouch.log): 2014-03-26 12:47:42Boot Start
18 441216(device1_intouch.log): 2014-03-2612:50:29 Boot Completed
19 Boot Time: 167000ms
20
21 === Device boot ===
22 442094(device1_intouch.log): 2014-03-26 20:41:34Boot Start
23 442432(device1_intouch.log): 2014-03-2620:44:13 Boot Completed
24 Boot Time: 159000ms
25
26 === Device boot ===
27 443073(device1_intouch.log): 2014-03-27 14:09:01Boot Start
28 443411(device1_intouch.log): 2014-03-2714:11:42 Boot Completed
29 Boot Time: 161000ms
30
31
```