PC 6

Corrections

Project #2

- Difference between fopen/read and exec/fork "cat | grep" ?
- /etc/hostname : no.
- Implement a getFileContents or alike.
- segfaults and memory leaks
- Yes, some commands needed sudo → Show error. Even better if you suggest being root in case of permission error (errno==EPERM).
- A good data-structure for multiple built-in would be a
  - struct {
    - char* cmd;
    - (int)fnt*(int argc, int argv);
  - }, implemented per built-in and kept in a list or hashtable.

Project #3

- Patching did not work on the submission platform
  - → Compiled a blank kernel...
  - → Told you that the message could not be found
- Auto marked (0/10/20 …)
  - Though, you can get 0 if future project cannot compile
- E: / N: in CREDITS
- Pick an __init function, put the printk() inside it. Too early can be dangerous though.
- Some unclean patches (not catched by the script)

Projects importance

1. Shell 1 → 1
2. Shell 2 → 1,5
3. Compiling → (0,5) 0
4. sys_pfstat → 1,5
5. Read vs MMAP → 1
   → No code to submit
6. Hidden files in VFAT → 1,5
   → Modify vFAT to allow storing files in unlisted blocks

Next practical sessions

No more coding session

- Presentation of the last project in a few weeks
- Tell me what you still don't understand after the two weeks of "vacations" and we'll review it from a practical perspective
  - If nothing… no more practical course except
- OS revision game at the end of the semester
  - Per group, with candies !

Use the blokus to review the course !

Project 5

Read vs MMAP

19/04 23:59:59

Report only

- Explain the differences between using the read/write system calls and the mmap system call to read or write in a file
  - In the context of the operating system course and the knowledge you acquired
- Try to find the cases where one is better than the other
- Generate statistics using your own little programs or existing ones
- Draw them as appropriate in your report

WARNING : Flush your cache before launching each sequence of test