Lab Test 1 – Fork() and Wait() in Linux
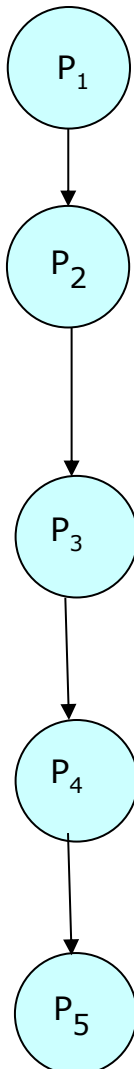
Operating Systems CS 3SH3 Term 2, Winter 2018
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Thursday, January 18, 2018

- Make sure to submit a version of your lab test ahead of time to avoid last minute uploading issues.
- Note that students copying each other's solution will get a zero. This includes (but is not limited to) sharing your solution with students taking the test during a different lab hour.
- You cannot share the lab test question with students taking the test in the next lab sections.
- Submit your solution under your lab group folder.
- Only one copy of your solution should be submitted.
- There is one deliverable for this lab test labtest1.c

Outline

Write a C program (named labtest1.c) that corresponds to the above process tree. You are to use the `fork()` system call to create child processes. Additionally, your program should ensure that the parent processes wait for their child processes to complete. As you can see there are a total of **5** processes (including the parent process).

Output:

1. Your program must print the `pids` of all the processes created to screen.
2. Your program should ensure that duplicate `pids` are not printed on the screen.

Sample Output: ./labtest1

7696
7697
7698
7699
7700