
EE-3233

Systems Programming for Engineers

Lab Assignment 8

In this short assignment you must code a small C program that utilizes the **fork()** system call to create a child process.

The child process should include the following line of code to print its information:

```
printf("[PID %d] Child process. Parent PID = %d.\n",  
       (int) getpid(), (int) getppid());
```

And the parent process the following line (here **pid_child** is a variable obtained from **fork()**):

```
printf("[PID %d] Parent process. Child PID = %d.\n",  
       (int) getpid(), (int) pid_child);
```

Expected Output

```
[PID 8361] Parent process. Child PID = 8362.  
[PID 8362] Child process. Parent PID = 8361.
```

Tips/Hints

You only need these headers in your code:

```
#include <stdio.h>  
#include <unistd.h>  
#include <sys/types.h>
```

Deliverables

You must upload the script with your solution, named with the following format:

<name-of-file>_<first-name>_<last-name>.c

For example:

fork_eric_ortega.c

Report-like submissions in PDF format will no longer be accepted.

Grading

- Your solution will be evaluated with a script to check if your solution is correct.
- Partial marks will be granted for cases where the output is partially correct.

Furthermore, following the syllabus, your script will be evaluated against MOSS (<http://theory.stanford.edu/~aiken/moss/>) to detect similar code.