

Process Forking

In-class Assignment

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Create a C program that does the following:

- Gets the process id of the current process (using the getpid() system call)
- Displays the process id using printf
- Call the fork system call storing the result in 'childProcessID'
- Check to ensure the fork system call was successful, if it wasn't, exit with an error message
- Print out the value of 'childProcessID' prefaced by [pid#] where # is the process id of the current pid. For example:
 - `printf("[%d]The childProcessID value is [%d]\n", getpid(), childProcessID);`
- Create an if statement:
 - If it is the child, print out a message stating it's the child and its current process id and that it has completed running
 - If it is the parent, wait for the child to complete using the wait system call and print out a message stating it's the parent and its current process id and that it is finished running.