

SYSTEM CALLS

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livesee@livesee:~$ cat > fork.c
// File: fork.c
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>

int main() {
    int pid;

    pid = fork(); // Create new process.
    printf("THIS LINE EXECUTED FIRST!\n");

    if (pid == -1) {
        printf("CHILD PROCESS NOT CREATED!\n");
        return 0;
    }

    if (pid == 0) {
        // Child process
        printf("CHILD PROCESS!\n");
        printf("Child PID: %d\n", getpid());
        printf("Parent PID: %d\n", getppid());
    } else {
        // Parent process
        printf("PARENT PROCESS!\n");
        printf("Parent PID: %d\n", getpid());
        printf("Parent's Parent PID: %d\n", getppid());
    }

    printf("IT CAN BE EXECUTED THIRD!\n");
    return 0;
}

livesee@livesee:~$ gcc fork.c -o fork
livesee@livesee:~$ ./fork
THIS LINE EXECUTED FIRST
THIS LINE EXECUTED FIRST
PARENT PROCESS
Parent PID: 4408
Parent's Parent PID: 4478
IT CAN BE EXECUTED THIRD
CHILD PROCESS
Child PID: 4408
Parent PID: 4408
IT CAN BE EXECUTED THIRD
livesee@livesee:~$
```