

OS 2/13

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Process Control Block

- Identifier
 - Process 1: two parts
 - * init.d - a bit older. Starts serially executing all of the initial begin scripts, it is done one by one. Slow
 - * system.d - You can execute things in parallel so it's faster, but there are philosophical reasons as to why system.d might not be the best approach
- Priority (also known as a nice value)
 - You can be nice and let any program that wants to run run or you can be not nice and not do that
- State
 - States are either running or not running, we can assume that
- Program Counter
 - Makes sure the PCB knows where it is
- The PCB is like the barcode of the process

Fork

- Special thing we can do in C code that creates a new child process
- Returns `pid_t` which is the process ID of the new process, I think
- System Calls can be found with `man syscall`

```
pid_t = fork()

pid_t childPid;

switch(childPid = fork())
{
    case -1:
        // error, fork()
    case 0:
        // you are inside the child
    default:
        // you are inside the parent
}
```

- I have code and lots of drawings that I'll try and remember to upload