

Create a process

- ➡ A process is created by another process
(concept of parent process and child process)
- ➡ The kernel creates the root parent as part of the booting
e.g shell program for a simple OS
e.g Window Manager for a GUI OS

Process creation on Unix using `fork`

```
int fork()
```

1. Creates and initializes a new PCB
2. Creates a new address space
3. Initializes the address space with a copy of the entire contents of the address space of the parent (with one exception)
4. Initializes the kernel resources to point to the resources used by parent (e.g., open files)
5. Create a kernel thread associated with this process and place that thread onto the ready queue