











Review

- What is a PCB?
- Usually the PCB is in OS memory only. Assume we put the PCB into a processes address space. What problems might this cause?













Possible Outputs?

```
int num = 0;
int main() {
  fork();
  num = num + 1
  printf("%d\n", *num)
}
What if fork() was spawn()?
```



Review • What is the Memory Management Unit? • What is a relocation register? • What happens to it during a context switch?























FloOO What is *journaling*? How is it used in modern file systems? How do large disks cause problems for some file systems? How are those problems addressed in modern file systems?



