

Creating the Process Abstraction

Programs: You can run lots of them; they use peripherals, memory and processors

HW: Fixed number of: processors, cores, registers, network connections, disks and a fixed amount of memory.

What is between the disk and a file?

Posix API: hierarchical name space, byte-streams, open, close, read, write

Persistent storage: Numbered disk blocks, checksums and ECC, bad block handling

Virtualizing Memory

Programs believe that they have sole access to the entire address space starting at 0 independent of how much memory is on the system

HW: A fixed amount of memory in a single physical address space, some of which is reserved for the operating system, devices, etc.