

Operating Systems: Ch 2. Discussion Questions

- What an operating system?
 - what does it do?
- What is virtualization?
- How does an OS provide access to its features?
- What illusion does a virtualized CPU provide?
- How does this affect the user experience?
 - developer experience?
 - what if the CPU were not virtualized?
- What is a memory address?
- What is memory virtualization?
- Why would we want this?
- What happens if you write a C++ program that writes past the end of an array?
 - can this affect other programs?

- What is a thread?
 - what does this imply about your previous programs?
- Why would we ever write a multi-threaded program?
- What is atomicity?
 - Is a C++ statement atomic?
- What does persistence mean?
- How does OS hard drive virtualization differ from CPU & memory virtualization?
- How does running multiple programs at the same time increase CPU efficiency?