Important System Concepts

Jacob Torrey
9/10/09

What, Why

- Learn how a computer exposes its hardware to an OS
- Learn how a OS hides things and controls its processes
- To see how they work together
- See what you are not allowed to do
- Find holes
-

Computer System

- Memory
- CPU - Rings, Protections, TSS, Segmentation
- Buses - PCI, PCIe, SMBus/I2C
- Interrupts/Clocks

CPU

Has multiple rings, fires interrupts

Memory

Virtual memory, virt has shadow pages, physical pages...

For next week

IDT, SSDT, TSS