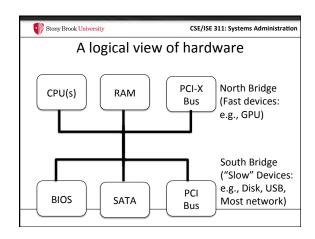
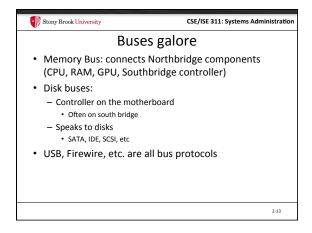


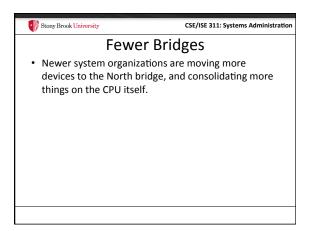
Bus Intuition

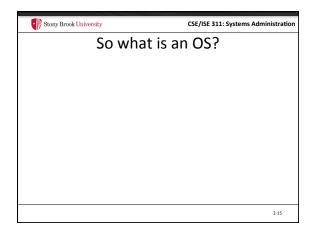
For a given device type, the bus client speaks the protocol over the wire

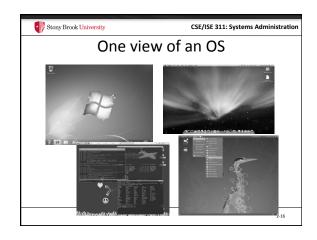
Encapsulates low-level device implementation

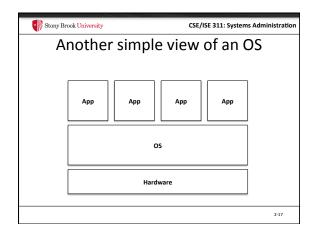


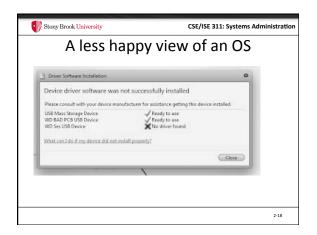


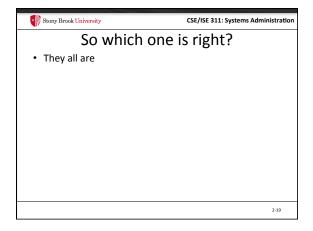


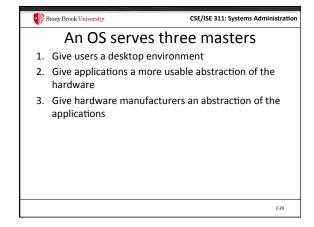












CSE/ISE 311: Systems Administration

Background (1)

CPUs have 2 modes: user and supervisor

Supervisor mode:

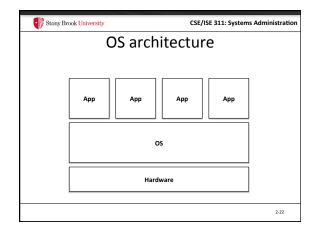
Issue commands to hardware devices

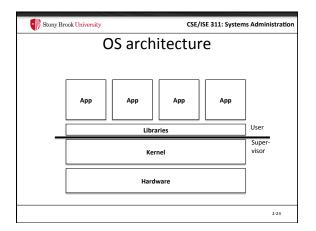
Power off, Reboot, Suspend

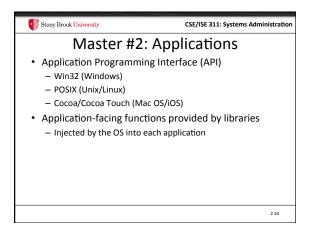
Launch missiles, Do awesome stuff

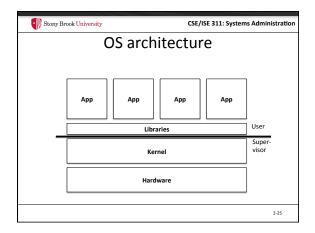
User mode:

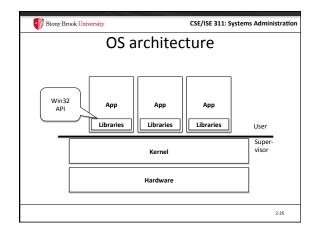
Run other code, hardware tattles if you try anything reserved for the supervisor

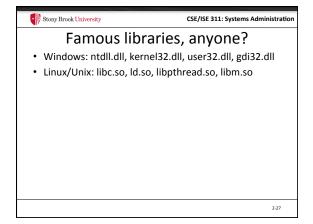


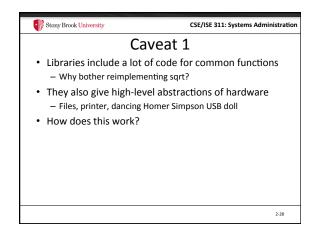


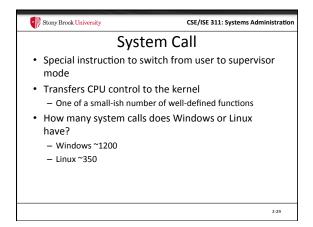


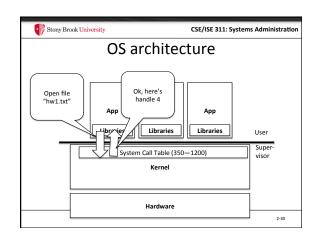


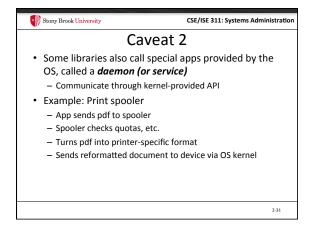


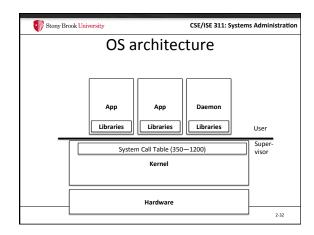


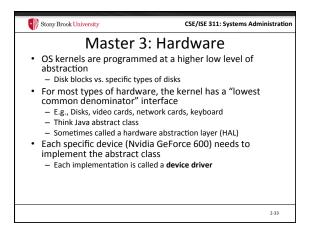


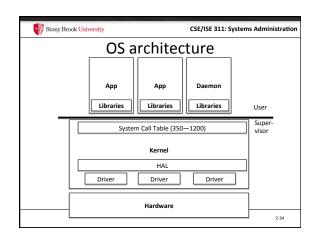


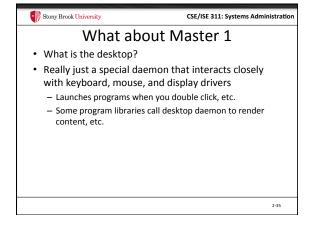


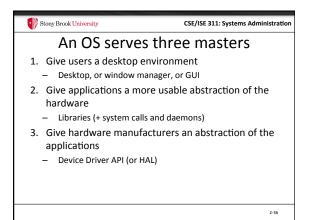


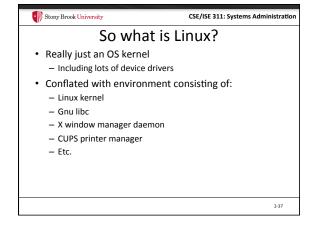


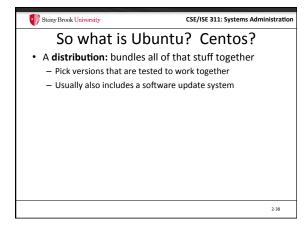


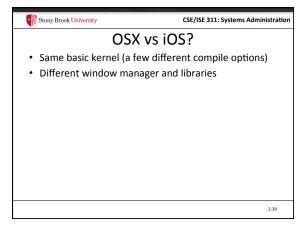


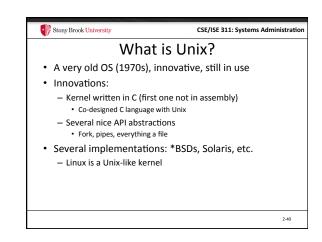


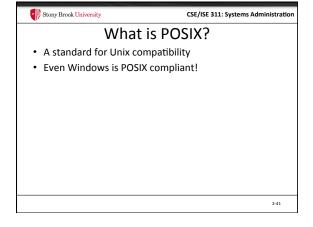


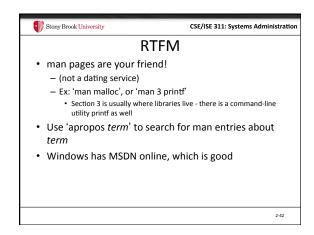












Summary

Understand basic hardware terminology

Understand what an OS is

Three masters

Nomenclature

Questions?

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