

Traditional OS Support

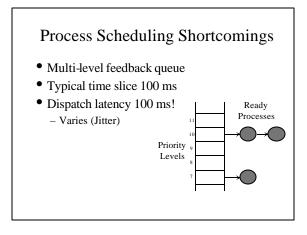
- Same:
 - arbitrate resource demands (efficient)
 - abstractions of low-level devices (convenient)
- Different:
 - no longer just protect memory of process
 - negotiated slice of CPU time
 - I/O bandwidth
 - timing!

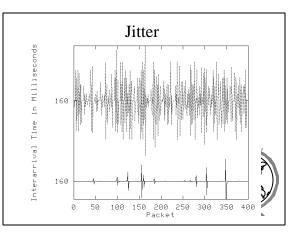


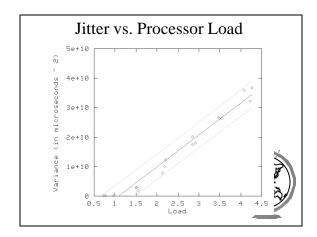
OS Problems in Supporting Multimedia

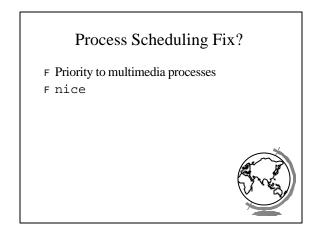
- Process Scheduling (now)
- Memory Management (later)
- Storage Scheduling (later, cs4513)
- Network Interface (later, cs4514)

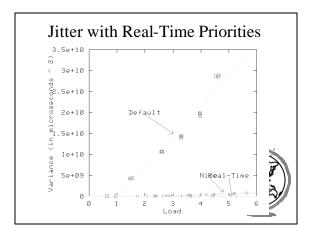


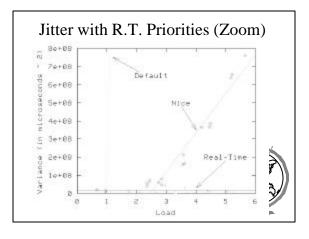


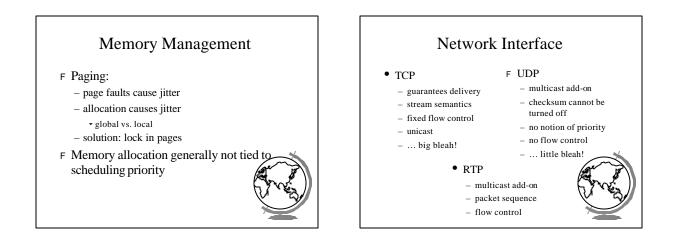


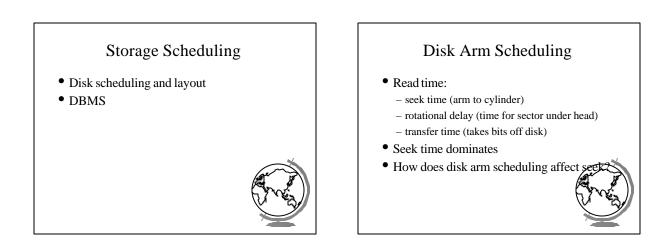


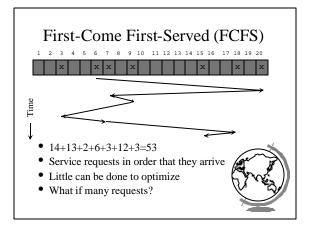


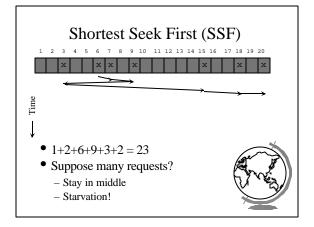


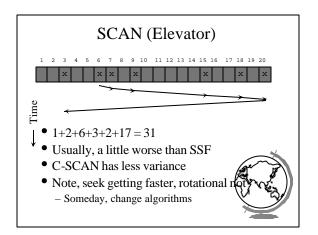












Redundant Array of Inexpensive Disks (RAID)

- 38 disks
- Pull data in parallel
- Form 32 bit word, 6 check bits



