29 Distributed Systems

Key differences from centralized systems:

- No shared memory
- Communication: delays, unreliable
- No common clock
- Independent node failure modes
- Hardware/software heterogeneity

Need to revisit many OS issues

- Distributed synchronization
- Distributed deadlock detection
- Distributed memory management
- Distributed filesystems

Plus deal with a number of new issues:

- Distributed agreement
- Distributed event ordering
- Failure recovery