



COT 4600 Operating Systems Fall 2009

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Office: HEC 439 B

Office hours: Tu-Th 3:00-4:00 PM

Lecture 18

■ Last time:

- Virtualization
 - Threads
 - Virtual memory
 - Bounded buffers
- Virtual Links
- Thread coordination with a bounded buffer
- Race conditions
- Deadlocks

■ Today:

- Addressing domains.
- Controlled sharing with multiple domains. Domain tables.
- Kernel and user modes to enforce modularity
- Gates. Supervisor calls
- Kernels; micro-kernels versus monolithic kernels
- Memory virtualization
- Address translation
- Paging. Virtual address spaces
- Optimization. TLBs
- Segmentation.

■ Next Time:

- Processor virtualization; threads