CPSC 457 Operating Systems

Processes and Threads

Last Time

Booting **Processes Types of Operating**

Systems

Address Space Files and Files

Operating System Systems Organization System Calls

Processes

Program

Code (instructions) in a file

Instructions being executed, with access to data

Multiprogramming and Multiprocessing

Multiprogramming
Make use of the CPU when we're waiting for I/O

Multiprocessing

Psudeoparallelism

Want to react to things in a timely fashion

Process Operations

Process Creation Process Execution

Process Tracking Process Termination

Process Scheduling Process

Communication

Process Creation

Process Information

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Context Switch		Scheduling	Interprocess Communication
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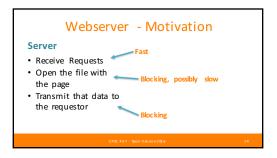
Process Execution

Process Termination

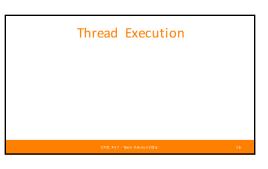
CPSC 457
Operating Systems

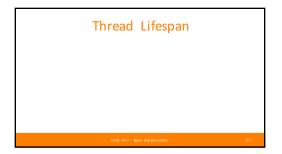
Break Time





Thread Design





Where do we implement threads?

Assignment 2

Review •Multiprogrammin g/Multiprocessin g Process Operation Creation MotivationConcepts Execution Process Information Context Switching Scheduling & Communication Context Switching • Kernel vs User Threads Termination

Next Time

How do we decide which process to run and when?