

CS 550:

Advanced Operating Systems

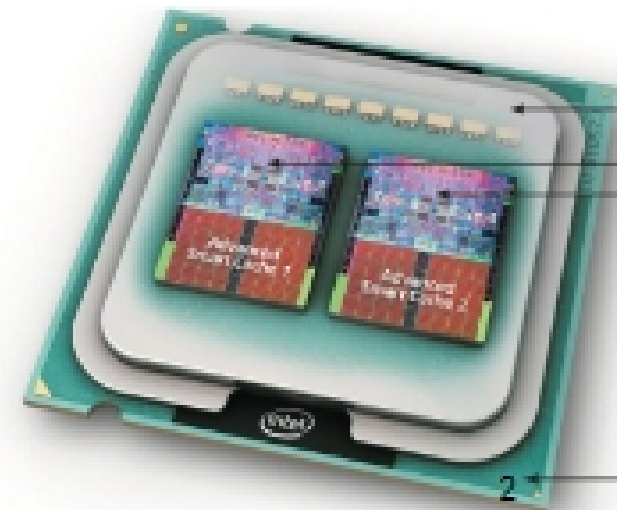
Processes and Threads

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CS 550
Advanced Operating Systems
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Review: Multicore everywhere!

- Multicore processors are taking over, *manycore* is coming
- The processor is the “new transistor”
- This is a “sea change” for HW designers and especially for programmers



Outline for Today

- Motivation and definitions
- Processes
- Threads
- Synchronization constructs
- Speedup issues
 - Overhead
 - Caches
 - Amdahl's Law