CSC 369 Reading Notes

1 Process API

Vocabulary

- 1. Process Identifier (PID)
 - Is an unique identifier for an active process
- 2. CPU Scheduler
- 3. Concurrency
- 4. Deterministic
- 5. Non-deterministic
- 6. Multi-threaded Programs
- 7. Signal

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1.1 fork() System Call

- Creates a new process
- Is an almost exact copy of the calling process
- Parent is the creator
 - Runs from main () (beginning of program)
- Child is the newly created process
 - Runs from fork() (where fork() occurs)

1.2 wait() System Call

• Forces parent to wait for a child process to finish its process

1.3 exec() System Call

- <u>Does not</u> create a new process
 - Current running program is overwritten
 - Code segment, heap, and stack are re-initialized

Example