CSE 3320 Notes 10/16/2019

Process an execution or by part (Last Lecture):

- Fork
- Exec
 - Fork and Exec may fail (fork less common to fail: due to memoryran out of memory, permission)
 - Fork:
 - Out of memory (no unlimited memory)
 - Permissions
 - Exec:
 - Return a code
 - Return a local variable
 - From external view:
 - Ps-ax
 - Top
 - Htop

Threads (Light Weight Processes)

- User Level
 - o Clib

Thread Management:

- Open
- Read
- Write
- Kernel Level (Lower)
 - o Parameter Sweep
 - o Pipeline
 - Coordinate between processes by waiting
 - Busy Wait
 - Non-busy wait- informed when change happens
 - Pipes
 - Locks (len/string)
 - Swap
 - SOM-phere
 - Prints

- Disk
- Request→Queue(wait)→Signal for proceeding
- Locks/S-phone
 - Extremely rare condition

Scheduling Proceses Thread Manage Processes

RAM

- 8its to 12/64bits
- 8-64 bit for pointer address

Compile:

- Source→Obj(instructions + Constants[num/string] + Information about reserve size/space)
- Exe: lib obj... combined by linker

Dynamic link→ clib

- Share between multiple exe