



System Calls and `unistd.h`

CS 2130: Computer Systems and Organization 1
December 3, 2025

Announcements

- Homework 10 due Monday
- Final exam: 7pm Dec 12, Wilson 301 (different room!)
 - Cumulative, see practice tests
 - Exam conflict form in email

Syscalls

write

`write:`

- Argument checking
- `syscall`
- Return value checking
- `ret`

Processes

Process - approximately what we think of as a “running program”

- Operating System effectively has a giant array of processes started since computer turned on
- Try `ps -A`
- Has access to all memory (but only its own!)
- Operating System maintains data structure about each process
 - What program is running, who ran it, when it started, ...
 - Array of “file like objects”

Processes

Using `write`

Using `write`

Using `write`