C, string.h

CS 2130: Computer Systems and Organization 1 November 19, 2025

Announcements

- · Homework 9 due Monday on Gradescope
- Lab 11 next Tuesday (can check off for full credit by 12/5)

List example

More on man pages

char *strsep(char **s, const char *d);

char *strsep(char **s, const char *d);





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

stdio.h manual page

printf

```
int printf(const char *format, ...);
int fprintf(FILE *stream, const char *format, ...);
```

Could you write printf?

printf

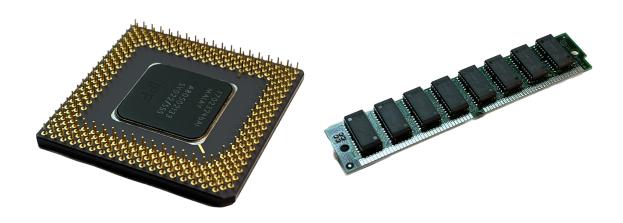
```
int printf(const char *format, ...);
printf("hi: %s and %d\n", mystr, myint);
```

Backing up...



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Syscalls

write

write:

- Argument checking
- · syscall
- Return value checking
- · ret

Using write