

# C: `stdio.h`, `varargs`, `unistd.h`

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CS 2130: Computer Systems and Organization 1

April 26, 2023

# Announcements

- Homework 10 due Monday at 11pm
  - Limited number of submissions, test your code before submitting
- Review session in lab next week
- Final Exam: May 4, 7-10pm, Chem 402

`stdio.h` manual page

# printf

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

Could you write `printf`?

# printf

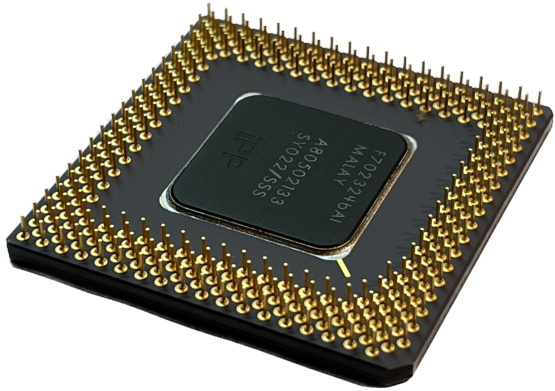
```
int printf(const char *format, ...);
```

```
printf("hi: %s and %d\n", mystr, myint);
```

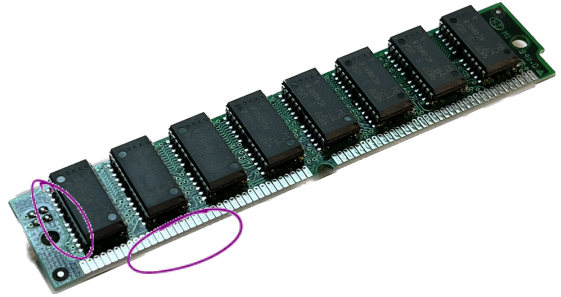
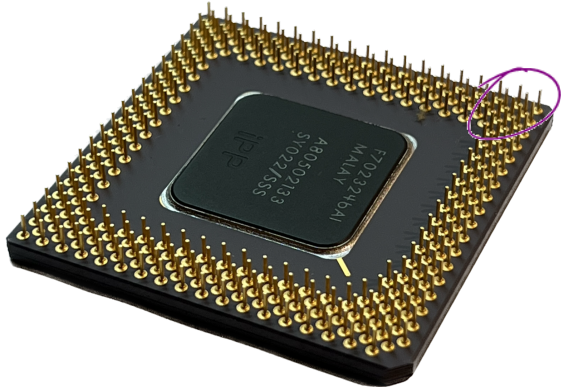


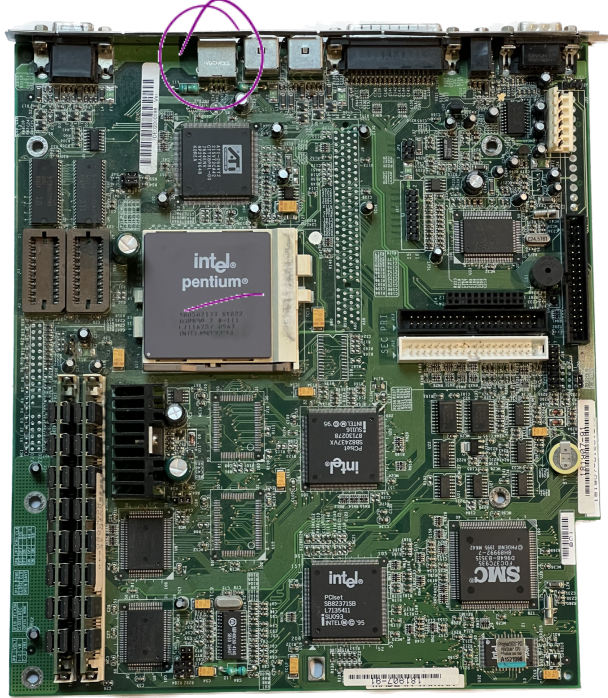
mode(str → FILE\*)  
write

Backing up...



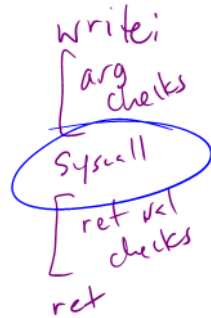
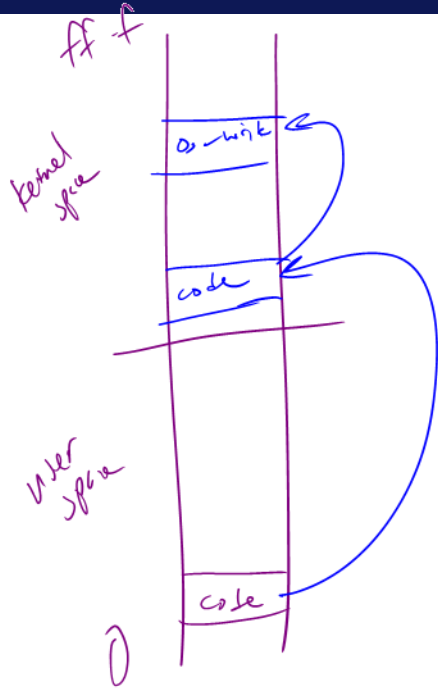






133MHz

# Syscalls



`write:`

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

Using write



