

In tro
to
Class

what does a computer program do?

⇒ fetch, execute

⇒ memory (where instructions, ~~data~~ live)



let's run some programs:

⇒ CPU

what happens when... you run 7?

⇒ mem 7, mem 100

⇒ concurrency

⇒ dtrace -s trace-io.d

io (another)

what happens when...

you access the same memory location?

(one window)

what happens when... you write to disk?

OS as virtual machine

physical machine:

runs 1 prog on CPU @ time } multiplexing

has 1 physical memory

has devices that are hard to use

Standard Library

virtual

many, easy

key

OS issues

efficiency ←

protection ←

Course overview: web page

⇒ 4 parts

⇒ materials:

⇒ what you do:

class, discussion

projects, exams (so/so)

↳ by self

History: From lib to sys call

⇒ procedure call
call instruction



⇒ sys call
special instruction
mips: trap
x86: int

} trap

[syscall #]

→ change in privilege level

key: interpose on key events

{ here: call to certain routines