Project 01: fixes

Project 02

Xu6 book

Lab 04

$ cmd < file1 > file2

① Create the pipe before forking
② Close off all ends of the pipe when not needed

$ cmd2 | cmd2
```bash
$ cmd1 | cmd2 | cmd3
```

Pipes are not bidirectional, use 2 pipes:

```
Pipe1

P1: 0 | 1 | 1 | 1 | 0 | 0 -> P2
```

Pipe2

0 -> 0
Pipe Flow Control

Pipe send str count

Diagram:

\[ P \rightarrow C_1 \rightarrow C_2 \rightarrow \text{print} \]

The Kernel

Disk

RAM

Kernel

1. Power on
2. Load Kernel into RAM
3. Initialization
Initialization

Virtual memory

KVA

Kernel

STACK(s)

DATA CODE

Physical

PA

Process

VA

Single CPU

User

Time

A

B


It is a quantum timeslice.

\[ \text{time} \]

\[ \text{quantum timeslice} \]