

CS 326-01 Containers

File Systems

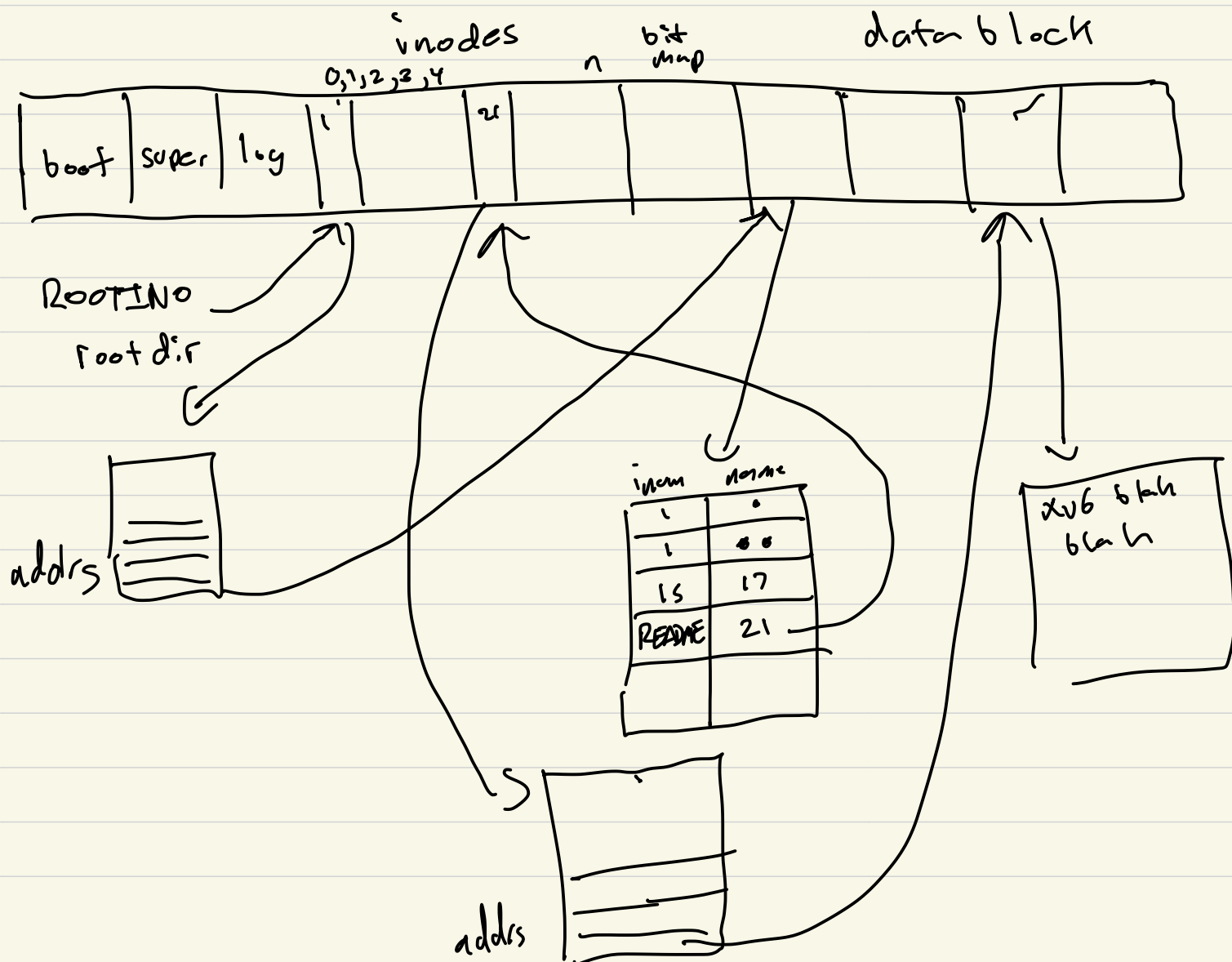
Disk layout: inodes, data blocks, dirs

Buffer cache

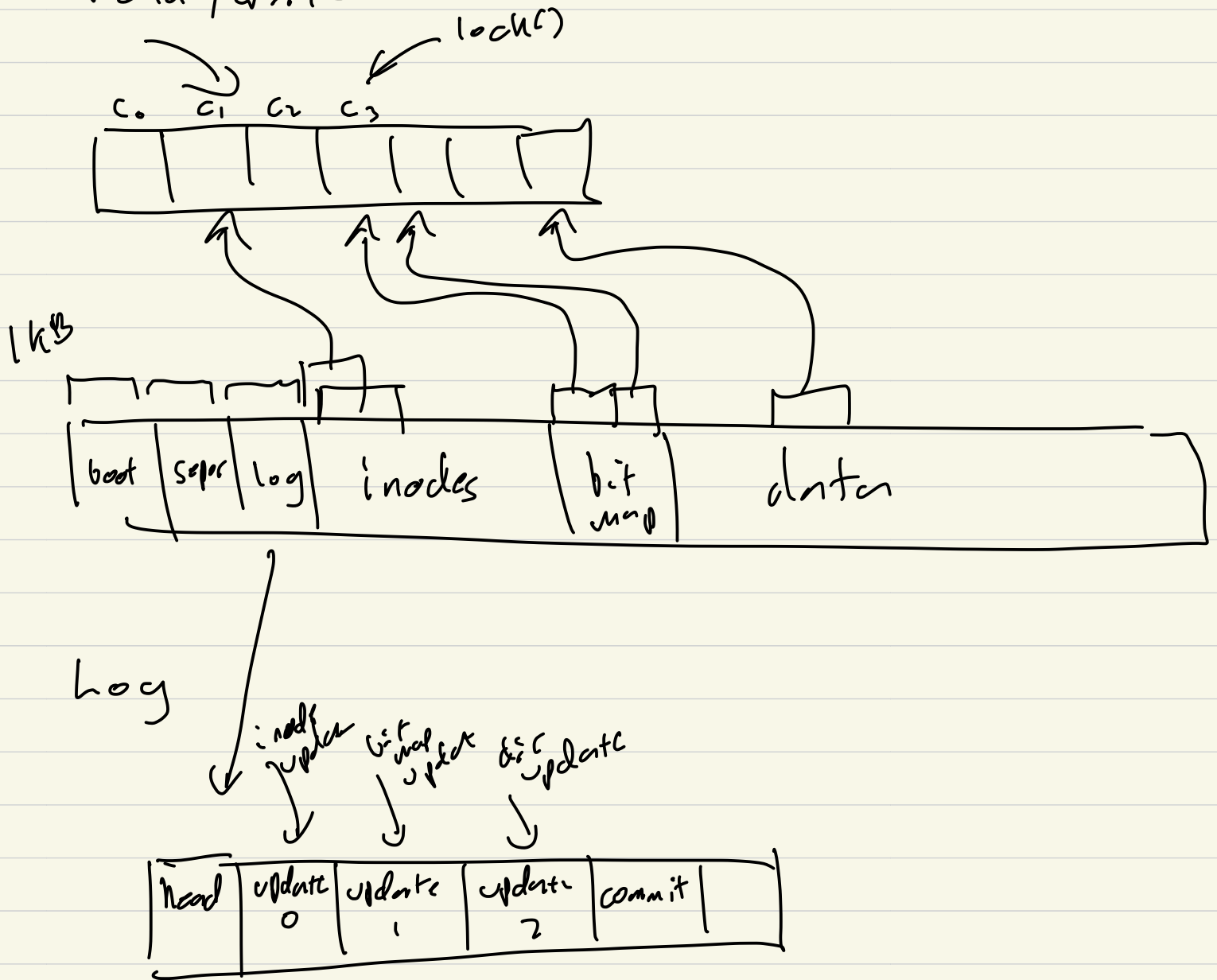
Logging

exec()

Containers



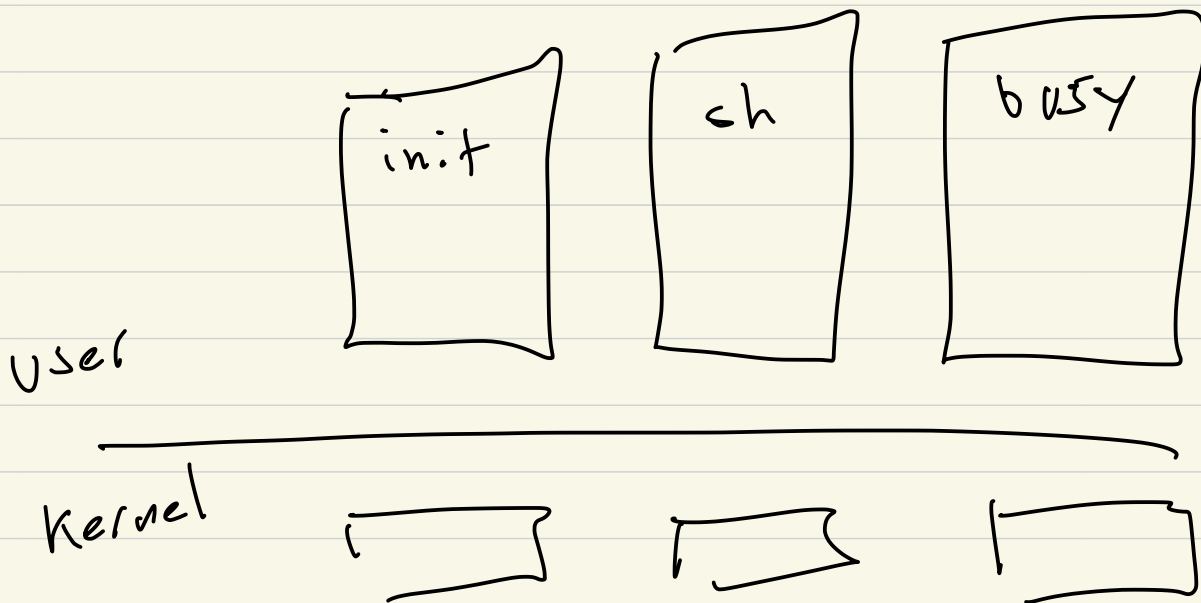
Buffer cache \rightarrow efficiency and synchronization
read/write



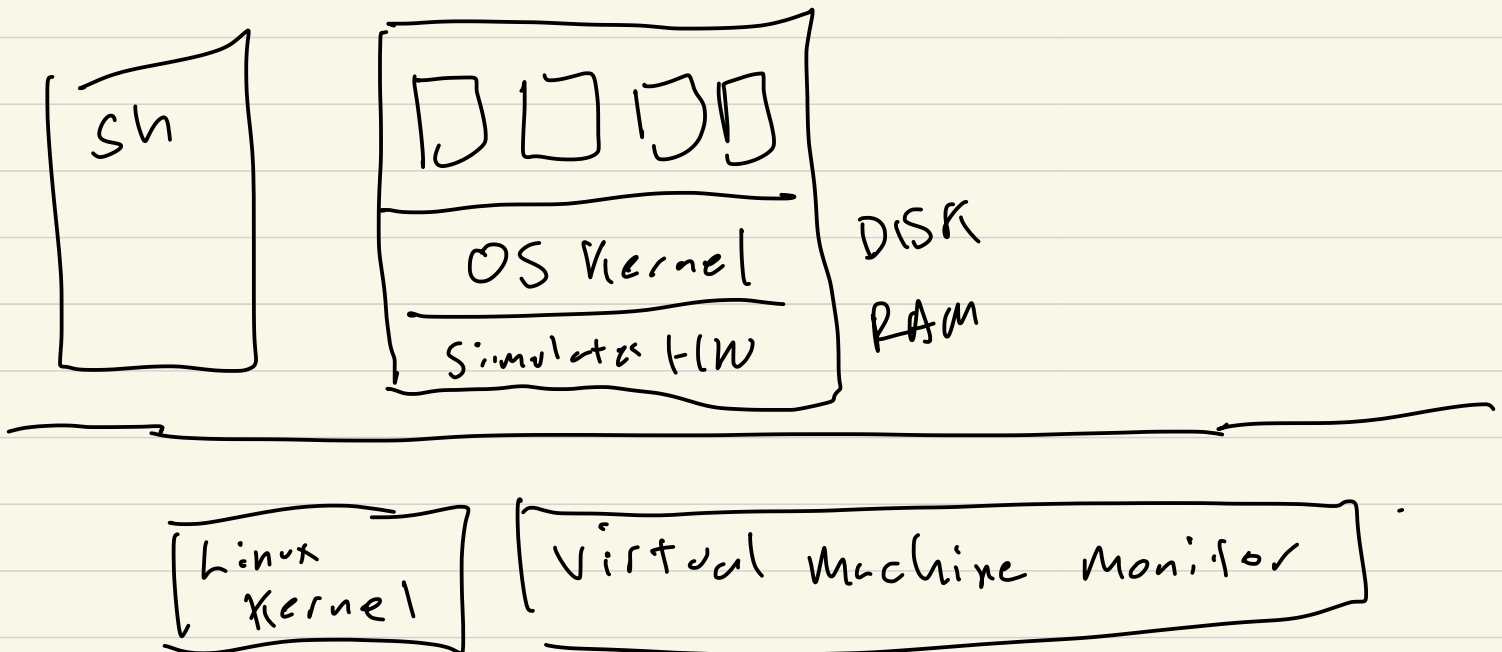
After commit

FS writes the log

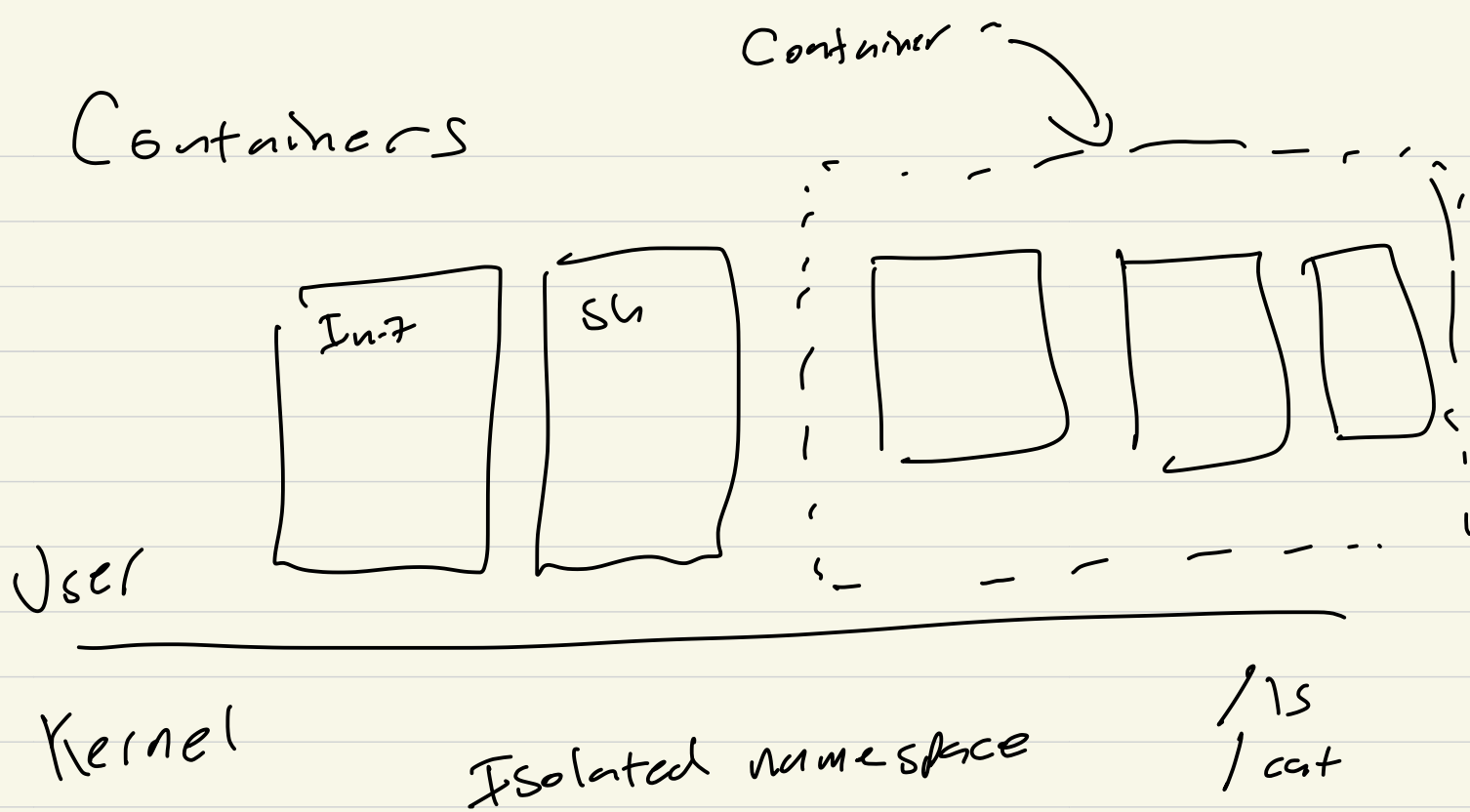
Containers



Virtual Machines



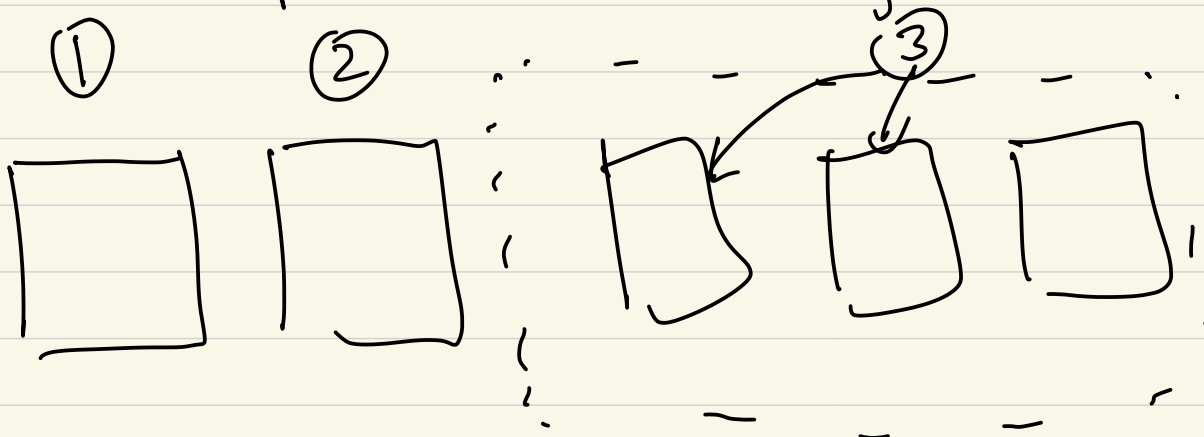
Containers



Container attributes

- 1) Total Maximum Memory
- 2) Isolated directory
- 3) Total Maximum disk blocks

- 4) Schedule the container processes as a group



Containers in xvf

```
[ struct proc z  
  }  
]
```

```
[ struct cont z  
  int max man  
  root dir  
  struct list son_list;  
  struct list_dam_danj  
  }  
]
```

→ → →

root container