

Mutex

atomic

CAS

R/W

lock

> 1 thread change memory  
avoid race condition

1-wad mutex

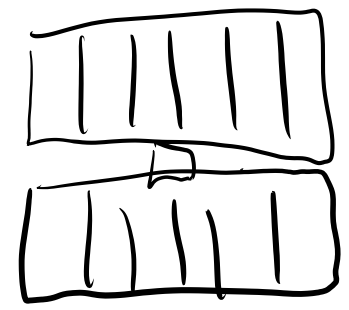
reads are common

Barrier

L

Periodic

agreement

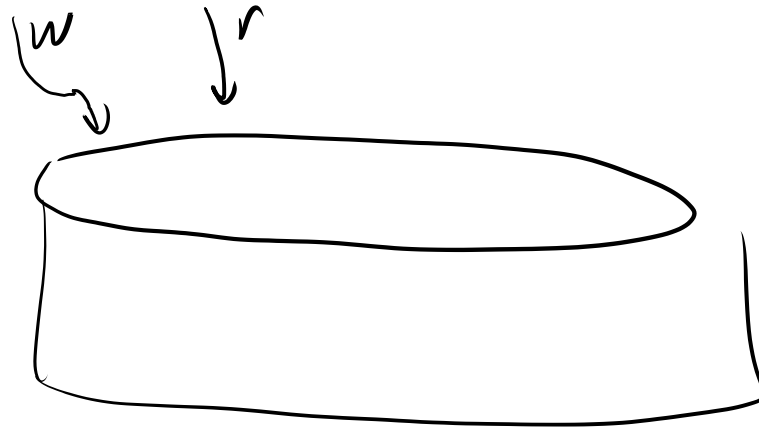


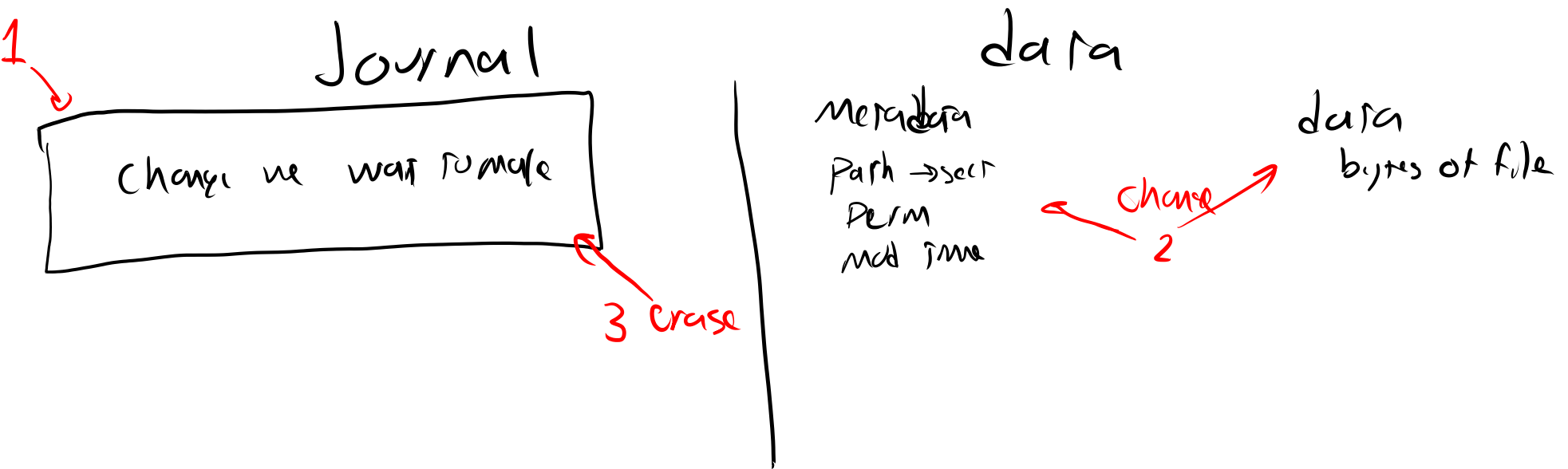
Simulation  
image.

Journaling

disk — DS ✓ /u/mstkc/test.txt

→ sectors  
#  
rights/perm





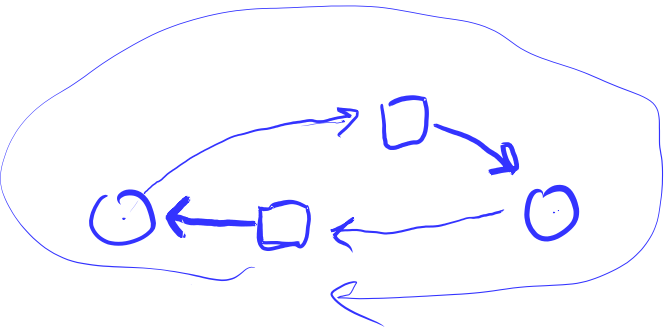
undo  
redo

→ Transaction

1. Journal
2. change
3. check OK

↳ OK? erase

↳ no? undo change if any again  
rollback



Deadlock

