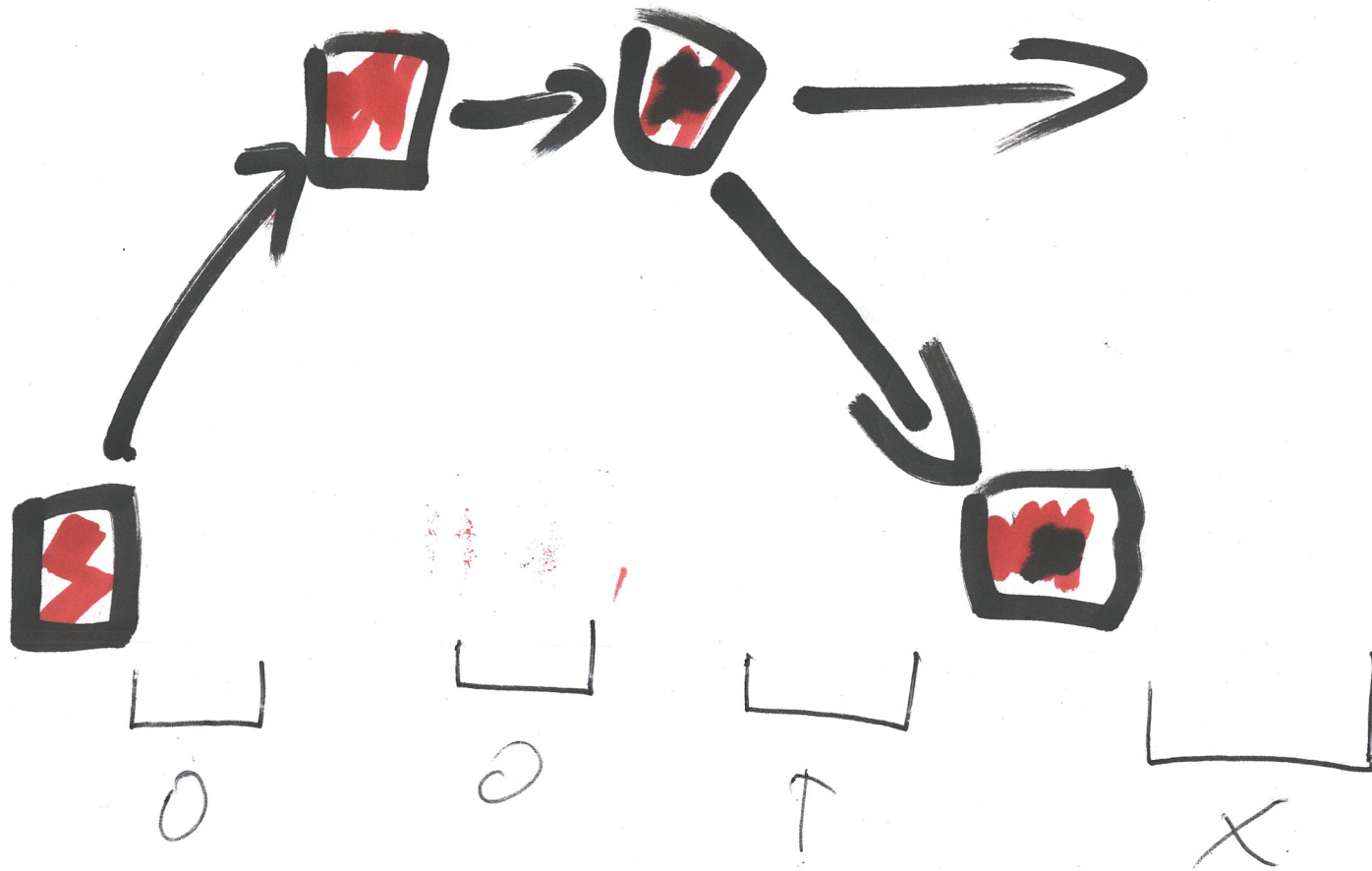


Assumption

Minimal
size write
that is atomic

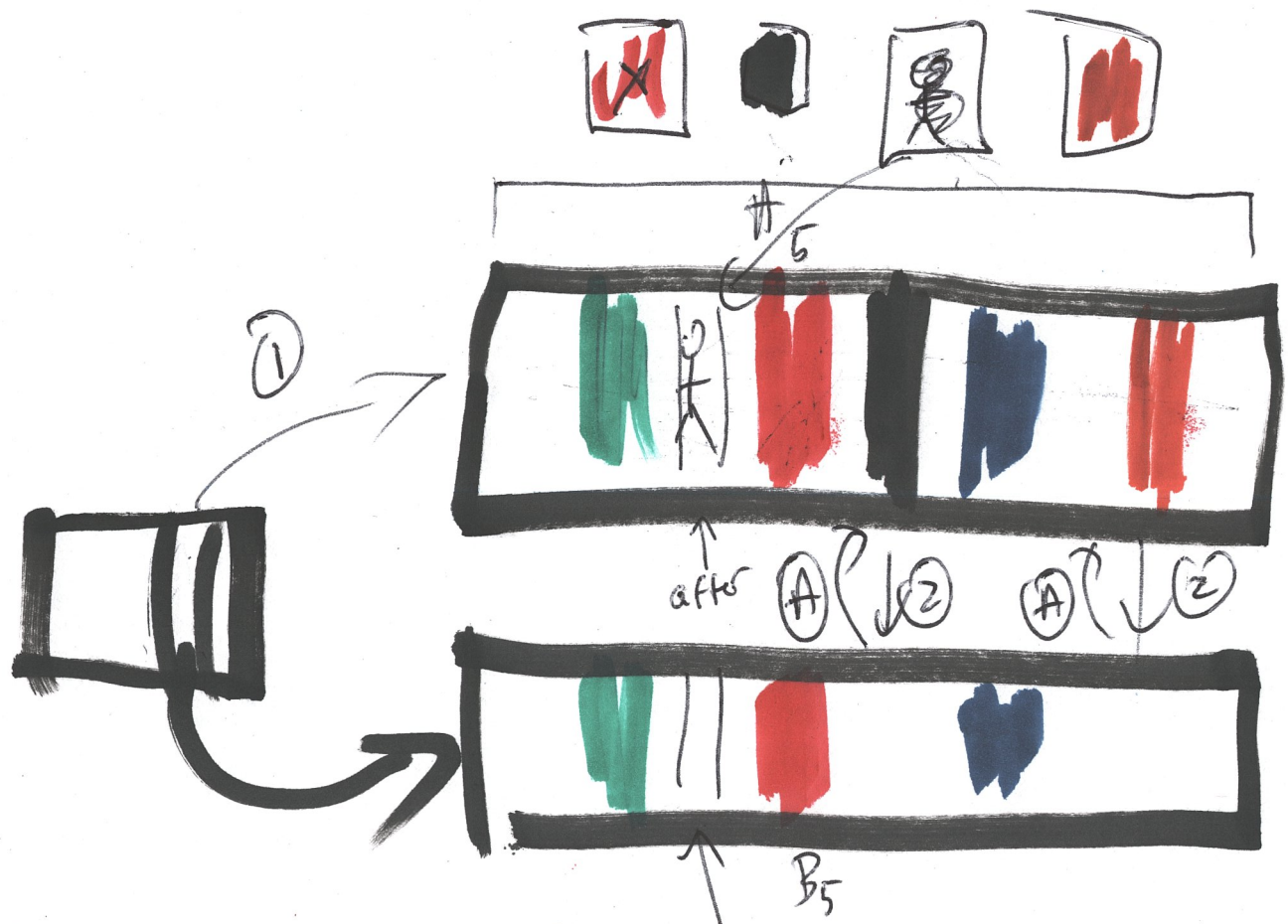
Mem

Disk



Logging

Problem →
Broken while
writing



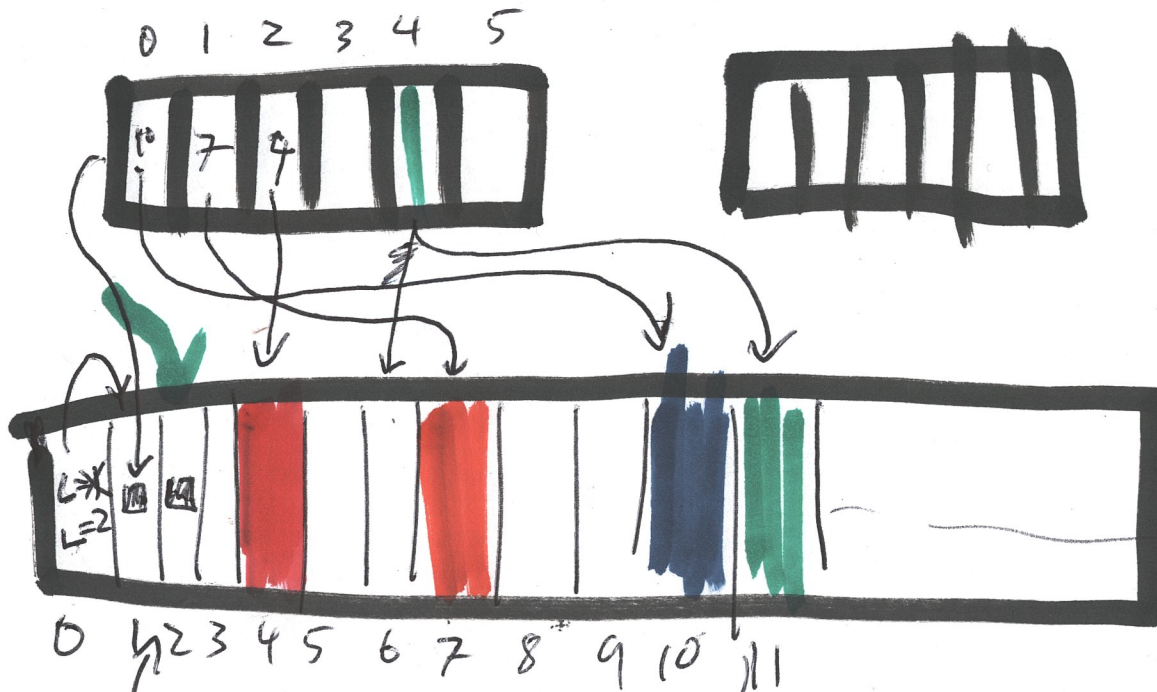
Twin Block

- ① Modify hidden copies
- ② ~~no~~ redirect pointer
- ③ Synchronize ~~pages~~ copies

- Con
- 2 copies of data
 - Lots of extra data copies
 - Only 1 xact
- Pro
- Contiguous, Good spatial locality

T1

T2



Lookup

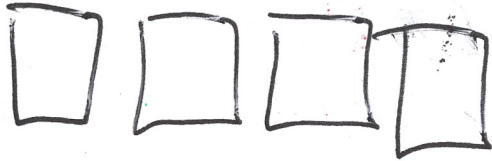
Disk



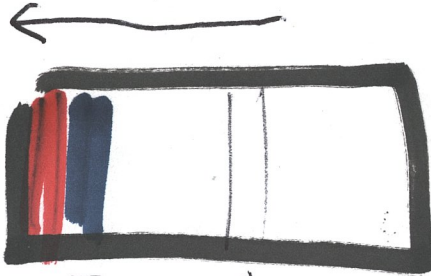
- ① make changes to DB ←
- ② write new LUT ←
- ③ update "active" LUT ←

↓ 2?
↖ O(1 Log 1)

Butter



DB



4 7

Log