

atomicity

All-or-Nothing atomicity

- 概述 (P15)
- 违反Violation的情况 (P16)
- shadow copy (P17)
 - 。 在rename的时候发生crash,就会有问题(P27)
 - 。 解决方案:P29
 - o Drawbacks of shadow copy (P45)
- Journaling (P30)
 - Journaling Drawbacks (P33)
 - o Mitigating Journaling Drawbacks (P34-36)

Logging

• 概述(P47)

redo-only(commit logging)

- Transaction and Commit Point (P49)
- example (P50-55)
- Crash recovery of commit log(P56)
- · Journaling can be viewed as apply commit logging to filesystem
- Pros & Cons of redo-only logging so far(P59)

undo logging

- undo-redo logging流程(P63-64)
- Log entry vs. log record (P65)
- · Each log record consists of...(P66)
- logging rules(P67-68)
- Recovery rules(P72)

checkpoint(confuse)

- How to checkpoint(P76)
- logging + checkpoint + recovery example (P78-85)

Undo-redo logging vs. redo-only logging(P85)

UNDO-only Logging(P86)