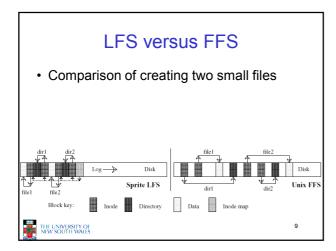
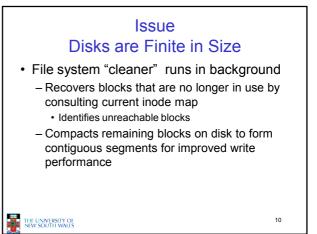
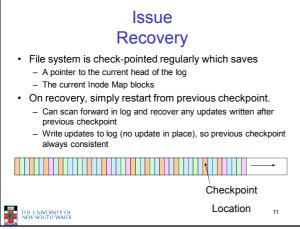


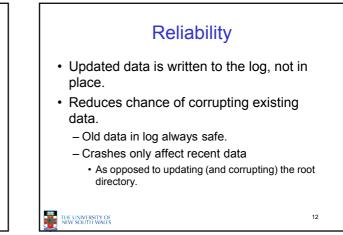
Tion 12:59

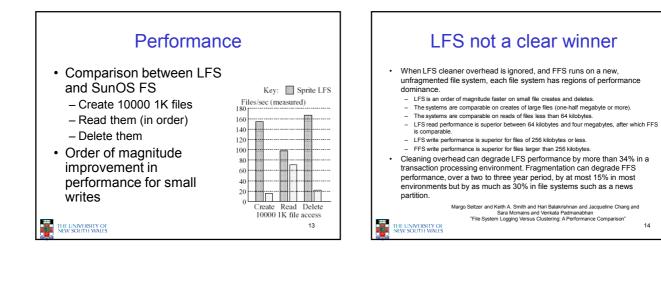


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## Journaling file systems

- · Hybrid of
  - I-node based file system
  - Log structured file system (journal)
- · Many variations
  - log only meta-data to journal - log-all to journal
- · Need to write-twice (i.e. copy from journal to inode based files)
- · Example ext3

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