

# Recitation: Log Structure File System

## Pre Recitation

- What is one technique that the log-structure filesystem uses to achieve higher performance? (There is more than one technique)
  - Instead of writing changes right to disk, LFS saves all file changes in buffers. Once this buffer becomes full, LFS writes all of the changes in the buffer at once.
- How does the log-structured file system implement this technique?
  - Using an in memory segment, LFS buffers all updates to files and its metadata. Once the buffer becomes full, LFS writes all of the changes to an unused place on disk, sequentially.
- Why does this technique, along with minimizing seeks, lead to good performance?
  - This technique takes advantage of the large gap in performance between random access writes and sequential writes. The sequential writes to disk largely improve the average performance of LFS.