

Outline

- A Fast File System For UNIX. M.K. McKusick, W.N. Joy, S.J. Leffler, and R.S. Fabry. ACM Transactions on Computer Systems. Vol. 2, No. 3 (August 1984), pp. 181-197
 - Summary: Junzhou
 - Pro: Srinivas
 - Con: Gong



Fast file system

- Old FS achieved ~4% throughput while they can achieve 47%
- Used a more modern block size
 - Fragments to reduce wastage
- File system is tuned to the disk structure, OS interrupt handling rate etc.
- Preallocate data structures and leave some unallocated space to optimize performance

