

# Conclusion on FFS

## Performance improvements

- Able to get 20-40% of disk bandwidth for large files - 10-20x original Unix file system!
- Stable over FS lifetime
- Better small file performance

## Other enhancements

- Long file names
- Parameterization
- Free space reserve (10%) that only admin can allocate blocks from

# Improving Reliability

with Log-Structured File system (LFS)  
and Journaling File System (ext3)