

Jon Cobi Delfin

NetID: jjd279

Project 4 report

iLab machine used: kill.cs.rutgers.edu

Mountdir used: /tmp/jjd279/mountdir

Time to run simple_test.c: real = 0m0.003s user = 0m0.000s sys 0m0.003s

Notes: When you run either simple_test or test_case, make sure you clear the files directory and/or the largefile after running either one or else it will throw a 'fuse: mountpoint is not empty' if you try to run ./tfs.

Design:

The way I designed my DISKFILE was to first set up the blocks for the data. 0 for the superblock, 1 for the inode bitmap, 2-5 for the data bitmap, 6-69 for the inode region, and 70+ for the data blocks. The way the data was formatted was by separation of ';' for specific data. For example the superblock would look like 1234;1234;1234

Similarly, the inodes would look like 1;0;1;...|2;0;1;..., using '|' to separate inodes.

The way the data was stored was first to use the direct pointers, which would point to data blocks. After all 16 of an inode's direct pointers were used, then I would use the indirect pointers, which would store up to 1024 pointers to data blocks.