

CS 450 Operating Systems

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Group Programming Assignment 4

**IN** PROGRESS

Build & Run Instructions

Simply build the xv-6 repository with the following command:

$ make

After it builds, make and start the emulator by typing in:

$ make qemu-nox

This should now open the CS450$ prompt to type in commands.

There are 5 programs to help run the assignment

FSWalker

Checks the output\_screenshots of the directory with inodes

$ fsWalker

Inode Walker

Check output\_screenshots from inodes from the following:

$ inWalker

Comparing Outputs

Make sure you have run the fsWalker and inWalker before running this otherwise it will show no changes

$ coWalker

Damaging the FS

Run the following command:

$ daInode

Repairing Files

The following sequence will repair any inodes that are damaged:

$ fsWalker

$ inWalker

$ coWalker



$ coWalker

$ reInode

NOTE: RUN ALL THE COMMANDS IN ORDER

TEST PROGRAM

Here is a sample program that can be used to test the walkers and programs

$ mkdir hello

$ mkdir hello1

$ fsWalker

$ inWalker

$ coWalker

$ daInode [insert inode of hello]

Repair using:

$ fsWalker

$ inWalker

$ coWalker

$ reInode

Verify results:

$ fsWalker

$ inWalker

$ coWalker