CST 334: Operating Systems

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# Lab: file systems implementation

We will use the OSTEP vsfs simulator.

1. On the hosting machine, copy files vsfs.py and README-vsfs to a directory of your own from

/home/CLASSES/brunsglenn/OSTEP/HW-VSFS

(or get them from http://pages.cs.wisc.edu/~remzi/OSTEP/Homework/homework.html)

1. Run the simulator with random seed 23:

$ ./vsfs.py -s 23

Write down the operations that were used. Remember, the possible operations are:

* mkdir()
* creat()
* open(), write(), close()
* link()
* unlink()

You should identify both the operations and the parameters.

1. When you are finished, check your result by running:

$ ./vsfs.py -s 23 -c

1. Repeat steps 2 and 3, but for random seed 26.
2. Run the simulator in reverse mode, with random seed 29:

$ ./vsfs.py -s 29 -r

Write down the states that result from the operations shown.

1. Check your answer by running the program again, but with the -c option.
2. Repeat steps 5 and 6, but this time with random seed 27.
3. If you get this far, continue running the simulator with different random seeds, in both default and reverse mode.