**p4-lite: filesystem inspection**

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| This is a light version of "p4: filesystem image forensics”. The intention is to give students some filesystem experience (much needed!) while they may not have time for the optional p4.  Note that p4-lite is also optional. It will only be counted as a bonus atop of your other labs. |

**Reproducing (20%)**

Attach screenshots showing that you have reproduced all the steps.

Step 1:

Step 2:

Step 3:

Step 4:

Step 0:

**Tinkering (80%)**

What is the max number of files in the given filesystem? What will happen when you exceed such a limit? Can you show some evidence?

How many blocks are in used by the whole filesystem? By the root directory?

What is the file corresponding to inode 11? What is this file for?

Dump the raw content of the symlink (aa-symlink). Show the content, and verify it indeed contains the string “aa”. Note that the content is inlined in the inode.

Validate how hardlink works. Create a hard link, dump its inode number, and verify that the number is exactly the same as the file that the hardlink points to.