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CPTS 224

Homework 2

1.

nano realfile *(make a file)*

ln realfile hardlink *(make a hardlink to the file)*

ln –s realfile softlink *(make a softlink to the file)*

cp realfile filecopy *(make a copy of the file)*

2.

-rw-r--r-- 2 eandrus1 eandrus1 82 Sep 18 22:24 realfile

-rw-r--r-- 2 eandrus1 eandrus1 82 Sep 18 22:24 hardlink

lrwxrwxrwx 1 eandrus1 eandrus1 8 Sep 18 22:28 softlink -> realfile

-rw-r--r-- 1 eandrus1 eandrus1 82 Sep 18 22:32 filecopy

-rw-r--r-- 2 eandrus1 eandrus1 93 Sep 18 22:38 realfile

-rw-r--r-- 2 eandrus1 eandrus1 93 Sep 18 22:38 hardlink

lrwxrwxrwx 1 eandrus1 eandrus1 8 Sep 18 22:28 softlink -> realfile

-rw-r--r-- 1 eandrus1 eandrus1 82 Sep 18 22:32 filecopy

The size of realfile and hardlink changed and softlink’s size remains the same.

3.

9752736 realfile

9752736 hardlink

9752737 softlink

9752738 filecopy

4.

realfile: ASCII English text

hardlink: ASCII English text

softlink: symbolic link to `realfile'

filecopy: ASCII English text

realfile, hardlink, and filecopy are the same type and softlink is a different type that “points” to realfile.

5.

chmod u+rx

6.

-rw-r--r--

-rwxr--r—

The difference is the x. The text of realfile became green after chmod u+rx as well. This is because I added the executable permission.

7.

They are all the same except for the filecopy which still contains the original lines that I wrote.

8.

realfile 94

hardlink 94

softlink 8

filecopy 82

9.

-rwxr--r-- 2 eandrus1 eandrus1 94 Sep 18 22:59 realfile1

-rwxr--r-- 2 eandrus1 eandrus1 94 Sep 18 22:59 hardlink

lrwxrwxrwx 1 eandrus1 eandrus1 8 Sep 18 22:28 softlink -> realfile

-rw-r--r-- 1 eandrus1 eandrus1 82 Sep 18 22:32 filecopy

9752736 realfile1

9752736 hardlink

9752737 softlink

9752738 filecopy

The size of realfile1 and hardlink increased by 1, softlink points to realfile which doesn’t exist. The inodes are the same as before.