

Operating Systems Lab

Lab-9 Report

Pavan Kumar V Patil
200030041

March 26, 2023

1 File Created

The file `open.c` at location `minix/servers/vfs/open.c` was changed. Code `printf("file created: %llu", vp->v_inode_nr);` was added to function `common_open()`.

For testing we have ran `touch temp.txt` in home directory.

```
Minix: PID 226 exited
# pwd
/home
# touch temp.txt
Minix: PID 227 created
file created: 5
Minix: PID 227 exited
#
```

2 File Write

The file `read.c` at location `minix/servers/vfs/read.c` was changed. Code `printf("file written: %llu; nbytes = %zu; offset = %llu",vp->v_inode_nr,size, f->filp_pos);` was added to function `read_write()`.

For testing we have ran `echo "hello" >> temp.txt` in home directory.

```
Minix: PID 228 exited
# echo "hello" >> temp.txt
file written: 5; nbytes = 6; offset = 6
#
```

3 File Read

The file `read.c` at location `minix/servers/vfs/read.c` was changed. Code `printf("file read: %llu; nbytes = %zu; offset = %llu", vp->v_inode_nr, size, f->filp_pos);` was added to function `read_write()`.

For testing we have ran `cat temp.txt` in home directory.

```
Minix: PID 229 exited
# cat temp.txt
Minix: PID 230 created
file read: 5; nbytes = 4096; offset = 6
hello
file read: 5; nbytes = 4096; offset = 6
Minix: PID 230 exited
# _
```

4 File Delete

The file `link.c` at location `minix/servers/vfs/link.c` was changed. Code `printf("file deleted: %llu", vp->v_inode_nr);` was added to function `do_unlink()`.

For testing we have ran `rm temp.txt` in home directory.

```
Minix: PID 231 exited
# rm temp.txt
Minix: PID 232 created
file deleted: 5
Minix: PID 232 exited
#
```