

# Lab8

Tuesday, April 15, 2025 5:42 PM

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CS_3224 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Apr 20 6:14 PM
vboxuser@CS-3224: ~/Desktop/Homework/08
vboxuser@CS-3224: ~/Desktop/Homework/08
vboxuser@CS-3224:~/Desktop/Homework/08$ make
make -C /lib/modules/6.8.0-52-generic/build M=/home/vboxuser/Desktop/Homework/08 modules
make[1]: Entering directory '/usr/src/linux-headers-6.8.0-52-generic'
warning: the compiler differs from the one used to build the kernel
The kernel was built by: x86_64-linux-gnu-gcc-13 (Ubuntu 13.3.0-6ubuntu2-24.04) 13.3.0
You are using: gcc-13 (Ubuntu 13.3.0-6ubuntu2-24.04) 13.3.0
make[1]: Leaving directory '/usr/src/linux-headers-6.8.0-52-generic'
vboxuser@CS-3224:~/Desktop/Homework/08$ sudo insmod lab8.ko
vboxuser@CS-3224:~/Desktop/Homework/08$ gcc lab8_test.c -o lab8_test
vboxuser@CS-3224:~/Desktop/Homework/08$ sudo ./lab8_test 20
driver counted _ ms to read with _ pid:
0
50875
program counted 2ms to read
vboxuser@CS-3224:~/Desktop/Homework/08$ sudo ./lab8_test 2
driver counted _ ms to read with _ pid:
0
program counted 0ms to read
vboxuser@CS-3224:~/Desktop/Homework/08$ sudo ./lab8_test 5
driver counted _ ms to read with _ pid:
0
508
program counted 2ms to read
vboxuser@CS-3224:~/Desktop/Homework/08$
```

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vboxuser@CS-3224:~/Desktop/Homework/08$ sudo dmesg
[292158.991279] ---starting driver---
[292158.993506] virtual device lab8 got minor number: 119 and was successfully registered
[292171.683884] my_open() started with jiffies value: 4586833872
[292171.684198] ---my_read() started---
[292171.684304] open to read time: 0ms
pid: 50875
[292177.275760] my_open() started with jiffies value: 4586839463
[292177.276410] ---my_read() started---
[292177.276526] open to read time: 0ms
pid: 50882
[292183.515541] my_open() started with jiffies value: 4586845697
[292183.516151] ---my_read() started---
[292183.516269] open to read time: 0ms
pid: 50889
vboxuser@CS-3224:~/Desktop/Homework/08$
```