

# Lab 8 Results

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diegoroso@diegoroso-VMware-Virtual-Platform: ~/CS6233/assignments/lab8/dr3432_lab8
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ make
make -C /lib/modules/6.8.0-45-generic/build M=/home/diegoroso/CS6233/assignments/lab8/dr3432_lab8 modules
make[1]: Entering directory '/usr/src/linux-headers-6.8.0-45-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 13.2.0-23ubuntu4) 13.2.0
You are using: gcc-13 (Ubuntu 13.2.0-23ubuntu4) 13.2.0
make[1]: Leaving directory '/usr/src/linux-headers-6.8.0-45-generic'
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ sudo insmod lab8.ko
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ cat /dev/lab8; echo
1000
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ sudo rmmod lab8.ko
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ sudo dmesg --read-clear
[ 118.054485] lab8: loading out-of-tree module taints kernel.
[ 118.054499] lab8: module verification failed: signature and/or required key missing - tainting kernel
[ 118.056048] Lab8 got minor 121.
[ 152.959036] Goodbye, cruel world
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ make test
gcc -o test test.c
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ sudo insmod lab8.ko
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ ./test 1
1 0 0
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ sudo rmmod lab8.ko
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$ sudo dmesg --read-clear
[ 255.250044] Lab8 got minor 121.
[ 302.399741] Goodbye, cruel world
diegoroso@diegoroso-VMware-Virtual-Platform:~/CS6233/assignments/lab8/dr3432_lab8$
```

NOTE: Added a test.c file that can be used to test reading of /dev/lab8 file.

Usage: ./test <number of bytes to read>

NOTE: Since we do not have a close function that is created we have to delete the driver before doing another operation, if not the module will show an error: Device or resource busy.