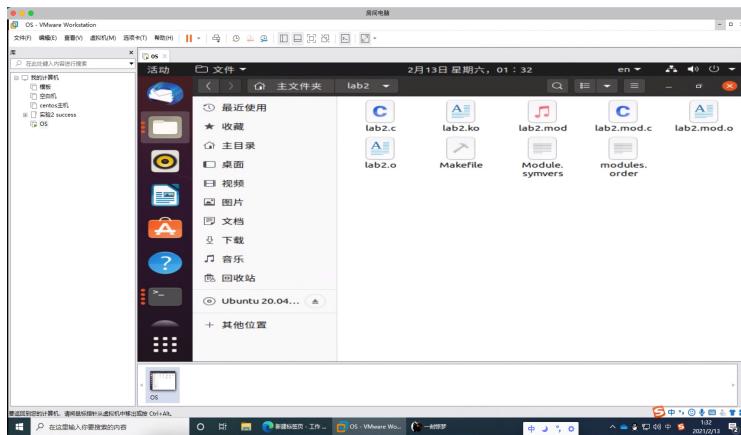


lab2.pdf

mz2986

Minghao Zheng

current directory: ~/zmh/lab2



1. use "make" command to compile my program, here I use make clean to delete the file compiled before and use make all to compile new lab2.ko
2. before use and "insmod" use make command to load the module
3. use "dmesg" to check the message of time and hello message
4. use "rmmod" command to unload the module
5. use "dmesg" again to check the message of goodbye and time
6. use the "uptime" command to check whether the uptime is true, it's about 41mins

```
zmh@zmh:~/lab2$ make clean
make -C /lib/modules/5.8.0-43-generic/build M=/home/zmh/lab2 clean
make[1]: 进入目录 '/usr/src/linux-headers-5.8.0-43-generic'
  CLEAN  /home/zmh/Lab2/Module.symvers
make[1]: 离开目录 '/usr/src/linux-headers-5.8.0-43-generic'
zmh@zmh:~/lab2$ make all
make -C /lib/modules/5.8.0-43-generic/build M=/home/zmh/lab2 modules
make[1]: 进入目录 '/usr/src/linux-headers-5.8.0-43-generic'
  CC [M]  /home/zmh/Lab2/lab2.o
  MODPOST /home/zmh/Lab2/Module.symvers
  CC [M]  /home/zmh/Lab2/lab2.mod.o
  LD [M]  /home/zmh/Lab2/lab2.ko
make[1]: 离开目录 '/usr/src/linux-headers-5.8.0-43-generic'
(failed reverse-i-search)::: ls^c
zmh@zmh:~/lab2$ sudo insmod lab2.ko
[sudo] zmh 的密码:
zmh@zmh:~/lab2$ sudo dmesg -c
[ 2489.031885] Hello, cruel world!
[ 2489.031895] System uptime is 00:41:28
zmh@zmh:~/lab2$ sudo rmmod lab2.ko
zmh@zmh:~/lab2$ sudo dmesg -c
[ 2505.181600] Goodbye, cruel world!
[ 2505.181610] System uptime is 00:41:45
zmh@zmh:~/lab2$ uptime
23:58:33 up 41 min,  1 user,  load average: 0.26, 0.11, 0.08
zmh@zmh:~/lab2$
```