

README

INSTRUCTIONS FOR HOST

1. Run the "makefile" through "make" command and it will create "squeue.ko" and the "main" with other files
2. To install module, run
sudo insmod squeue.ko
3. In a new terminal run the command
sudo tail -f /var/log/syslog/
to see the **printk** command executed during **insmod**
4. To check the module is installed or not and to check if it the driver is registered run
lsmod
cat /proc/devices wherein you will find the "squeue" in Character Devices with the dynamically allocated major number.
5. Go to **/dev** to check the devices "dataqueue1" & "dataqueue2" are installed with the same major number and different minor number
6. Before running the make file, change the mouse event number in "main.c" on line number 19 - **#define EVENT_FILE_NAME "/dev/input/event2"** according to the event number of your mouse which you can check through: **cd /dev/inputs**
7. When you have confirmed the installation run the "main" file through "**sudo ./main**" and check the execution in a new terminal through **sudo tail -f /var/log/syslog/**
8. Remove the module by running
sudo rmmod squeue

INSTRUCTIONS FOR TARGET

1. Before running the make file, change the mouse event number in "main.c" on line number 19 - **#define EVENT_FILE_NAME "/dev/input/event2"** according to the event number of the mouse connected to the board which you can check in **/dev/inputs** on the target terminal
1. Run the "makefile" through "**make TEST_TARGET=Galileo2**" command and it will create "squeue.ko" and the "main" with other files
2. Configure your board by assigning it a static ip between 192.168.1.0 to 192.168.1.255
3. Everytime you disconnect and connect the ethernet cable from your board, run the following command at your "**root@quark#:**" terminal
ifconfig enp0s20f6 (your assigned ip) netmask 255.255.0.0 up
4. After you have configured the board you need to copy the files "squeue.ko" and the "main" to the home directory on board through command
scp (path of the files to be copied) root@(your assigned ip):/home
5. To install the module, run
insmod squeue.ko
7. Run the main file thorough **./main** command
8. To remove the module run "**rmmod squeue**"