

TEAM-8

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README

1. Before running the makefile, change the mouse event number in "**RGBLed.c**" on line number 16 - **#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.
2. The **Gpio_func.c** is changed according to our program logic so use the file attached within the submitted folder.
3. Run the "**makefile**" through "**make TEST_TARGET=Galileo2**" command and it will create "**test**" file.
4. Configure your board by assigning it a static ip between 192.168.1.0 to 192.168.1.255
5. Whenever 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
6. After you have configured the board you need to copy the file "**test**" to the home directory on board through command
scp (path of the files to be copied) root@(your assigned ip):/home
7. Connect the RGB Led to the board at any of the pins from **IO0 to IO13** and connect the ground wire at the **GND** on board.
8. Run the executable file thorough "**./test**" command.
9. Enter the input values when it prompts you to enter the integer values of PWM, Red Led pin number, Green Led pin number and Blue Led pin number in the order mentioned.
10. You can set the intensity of the LEDs by entering different values of PWM in the range of **0 to 100**.
11. The LEDs will blink for the 7 steps – **{R, G, B, RG, RB, GB, RGB}** at the intensity set through the PWM.
12. The program will terminate when any **mouse click** is detected after the completion of the step that is running at that moment.