

## Steps for F3 Discovery Configuration on Ubuntu

Open the terminal Ctrl + Alt + T

- 1- Check the Version of Rust C  
`rustc -V`
- 2- Now install the itmdump  
`cargo install itm --vers 0.3.1`
- 3- After installation check the itmdemp version  
`itmdump -V`
- 4- Now Install bin utilities Cargo - binutils  
`rustup component add llvm-tools-preview`  
`cargo install cargo-binutils --vers 0.1.4`
- 5- Now check the Version of binutils  
`cargo size -- -version`
- 6- Now install the GDB just copy the command and paste it in your terminal  
`sudo apt-get install \ gdb-multiarch \ minicom \ openocd`
- 7- Now install optional Packages just copy and paste command in terminal  
`sudo apt-get install \ bluez \ rfkill`
- 8- now its time to make some rules to use F3 discovery USB.
  - a) copy and paste this command in your terminal  
`sudo chmod -R a+rwX /etc/udev/rules.d`
  - b) goto folder /etc/udev/rules.d  
:~\$ cd /  
:/\$ cd etc  
:/etc\$ cd udev  
:/etc/udev\$ cd rules.d  
:etc/udev/rules.d\$
  - c) `sudo touch 99-ftdi.rules`
  - d) `nano 99-ftdi.rules`  
Paste these lines  
  
# FT232 - USB <-> Serial Converter  
ATTRS{idVendor}=="0403", ATTRS{idProduct}=="6001", MODE:="0666"  
  
now save and closed this file by Ctrl+X
  - e) `sudo touch 99-openocd.rules`
  - f) `nano 99-openocd.rules`  
Paste these lines  
# STM32F3DISCOVERY rev A/B - ST-LINK/V2  
ATTRS{idVendor}=="0483", ATTRS{idProduct}=="3748", MODE:="0666"  
  
# STM32F3DISCOVERY rev C+ - ST-LINK/V2-1  
ATTRS{idVendor}=="0483", ATTRS{idProduct}=="374b", MODE:="0666"  
  
now save and closed this file by Ctrl+X
  - g) Now copy and paste this command  
`sudo udevadm control --reload-rules`