

**Міністерство освіти і науки України
Національний технічний університет України «КПІ» імені Ігоря Сікорського
Кафедра обчислювальної техніки ФІОТ**

**ЗВІТ
з лабораторної роботи №4
з навчальної дисципліни «Архітектура комп'ютерів-2. Процесори»**

Тема:

Підготовка та налаштування плати ВВВ

Виконав:

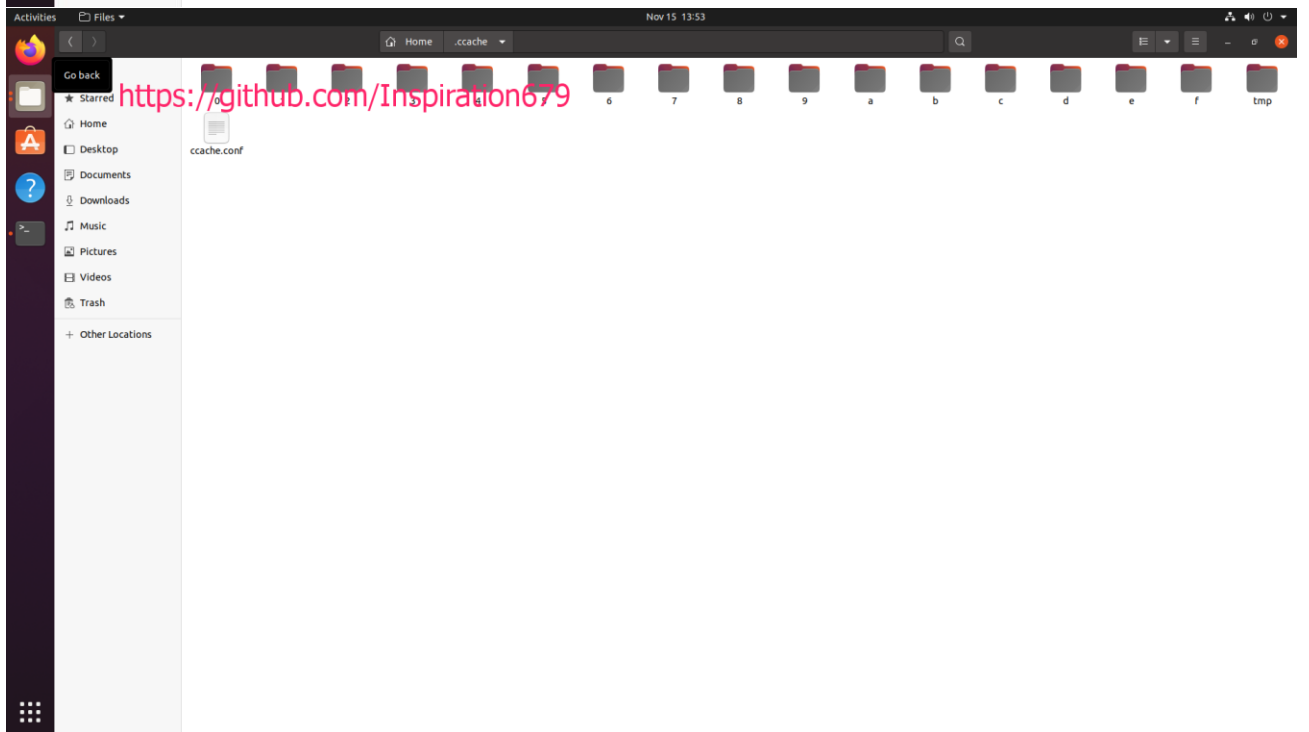
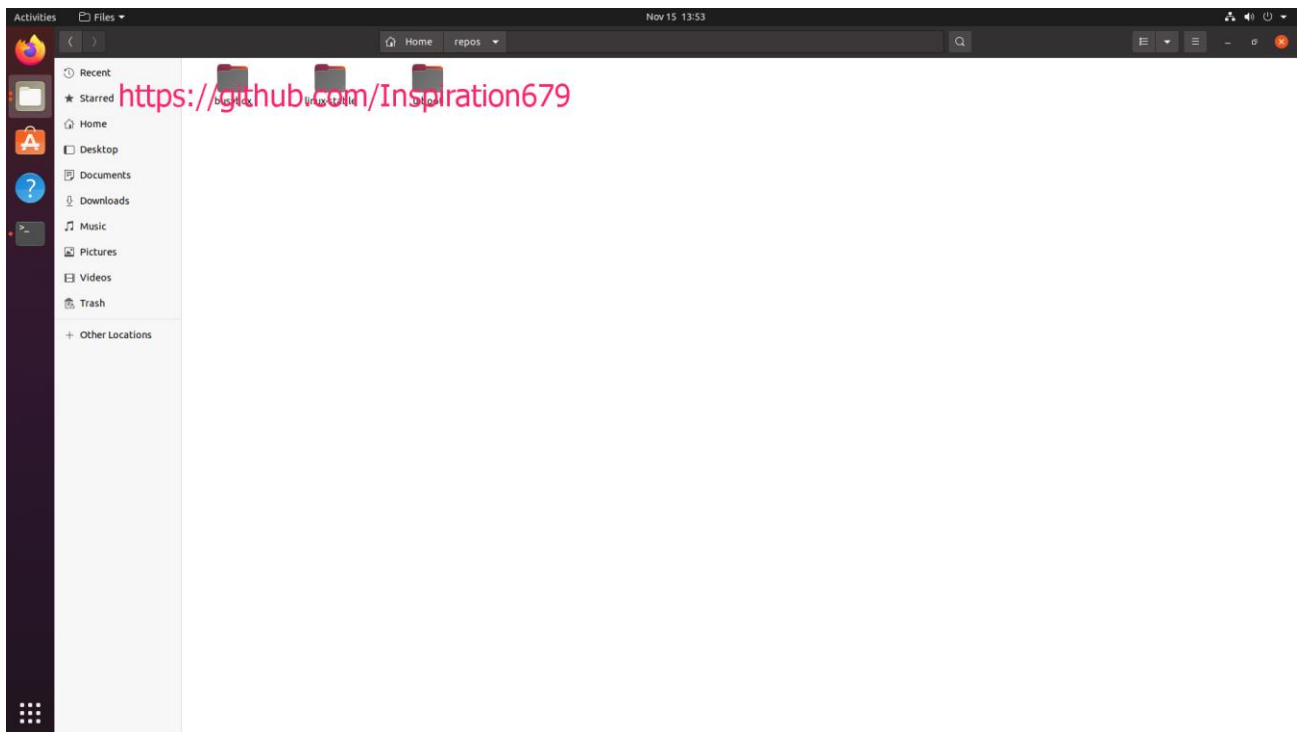
Студент 3 курсу кафедри ОТ ФІОТ,
Навчальної групи ІВ-93

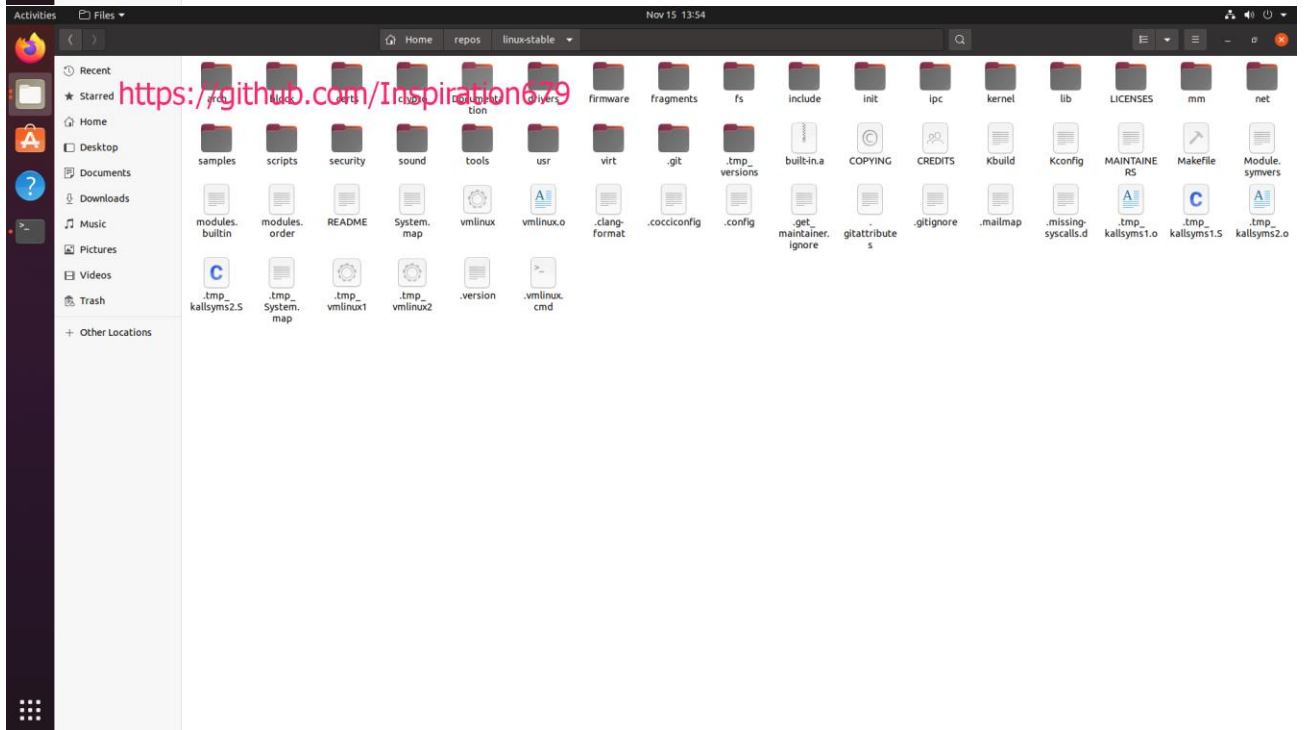
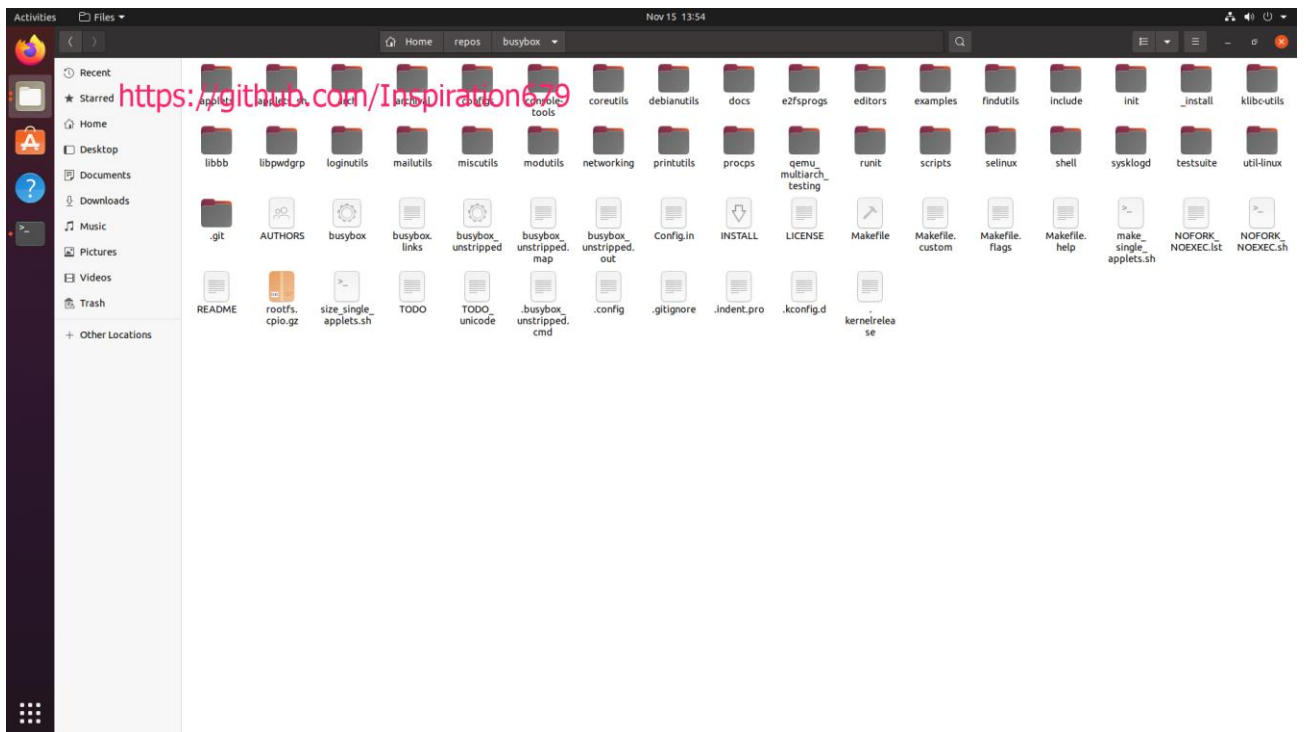
Калайда Тарас

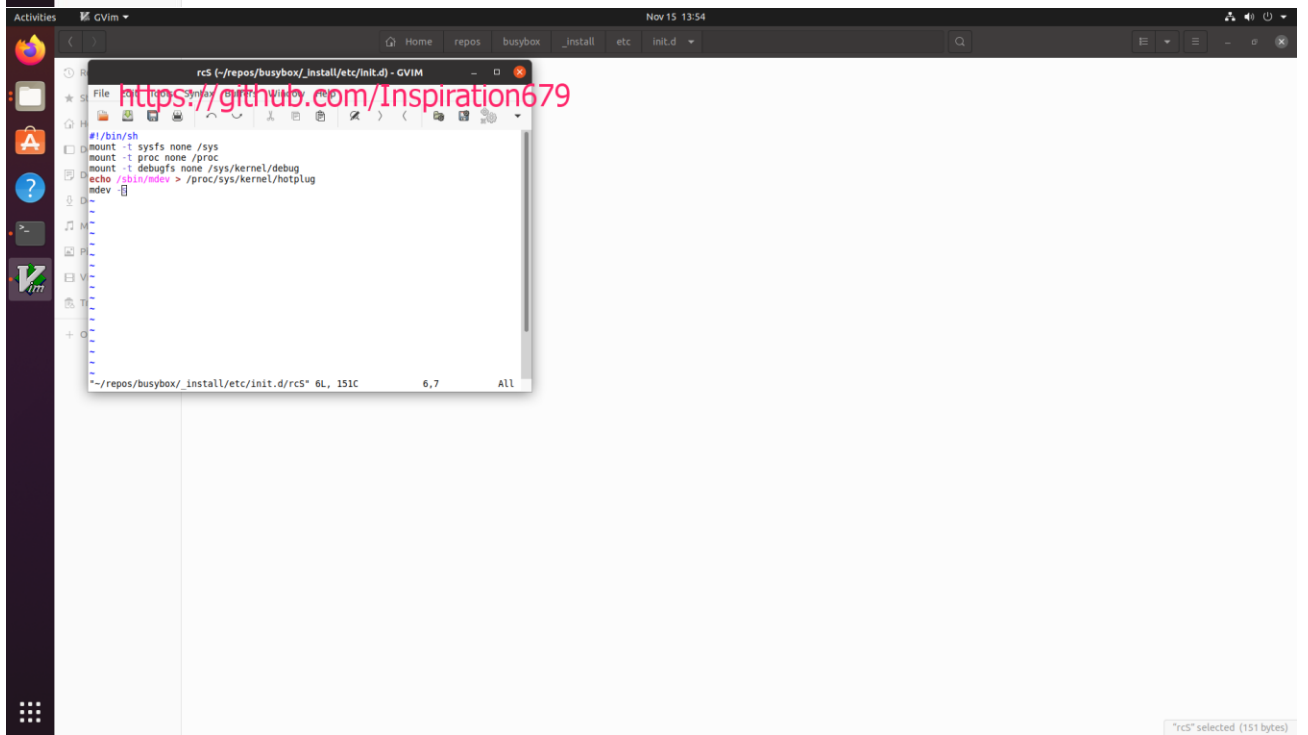
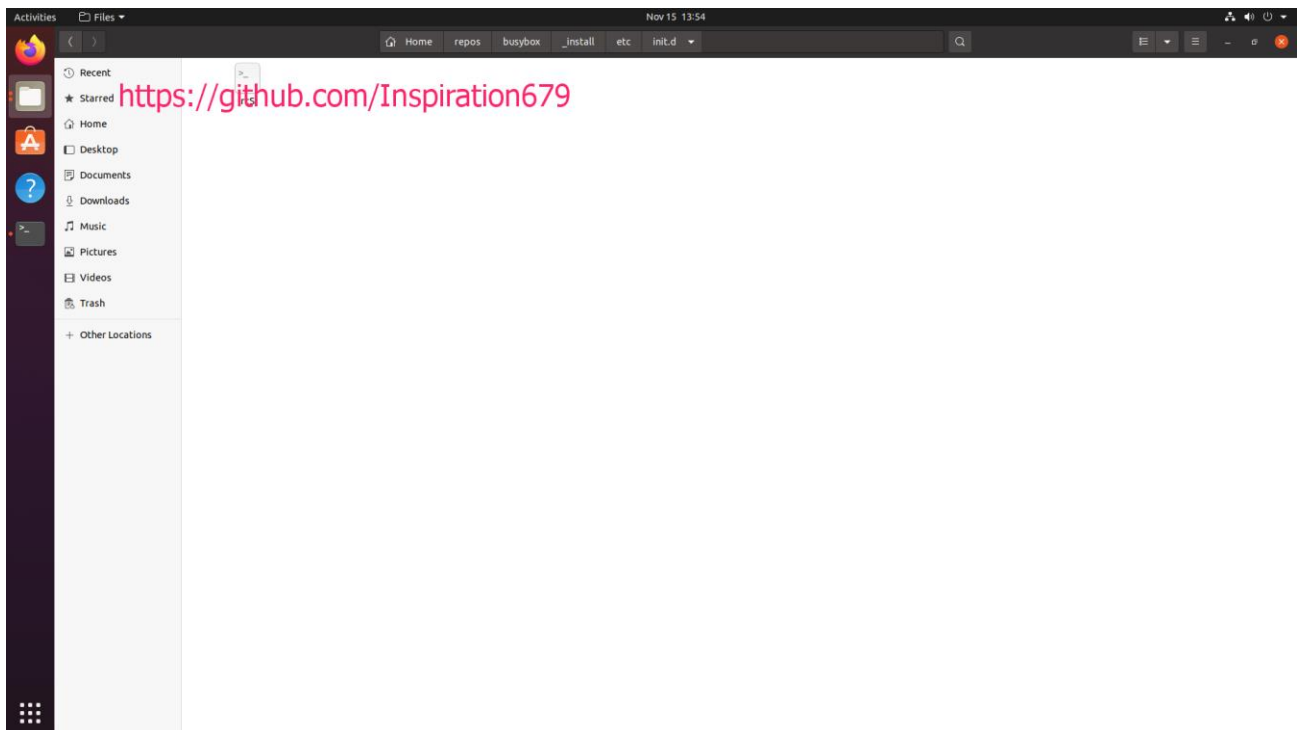
Перевірив:

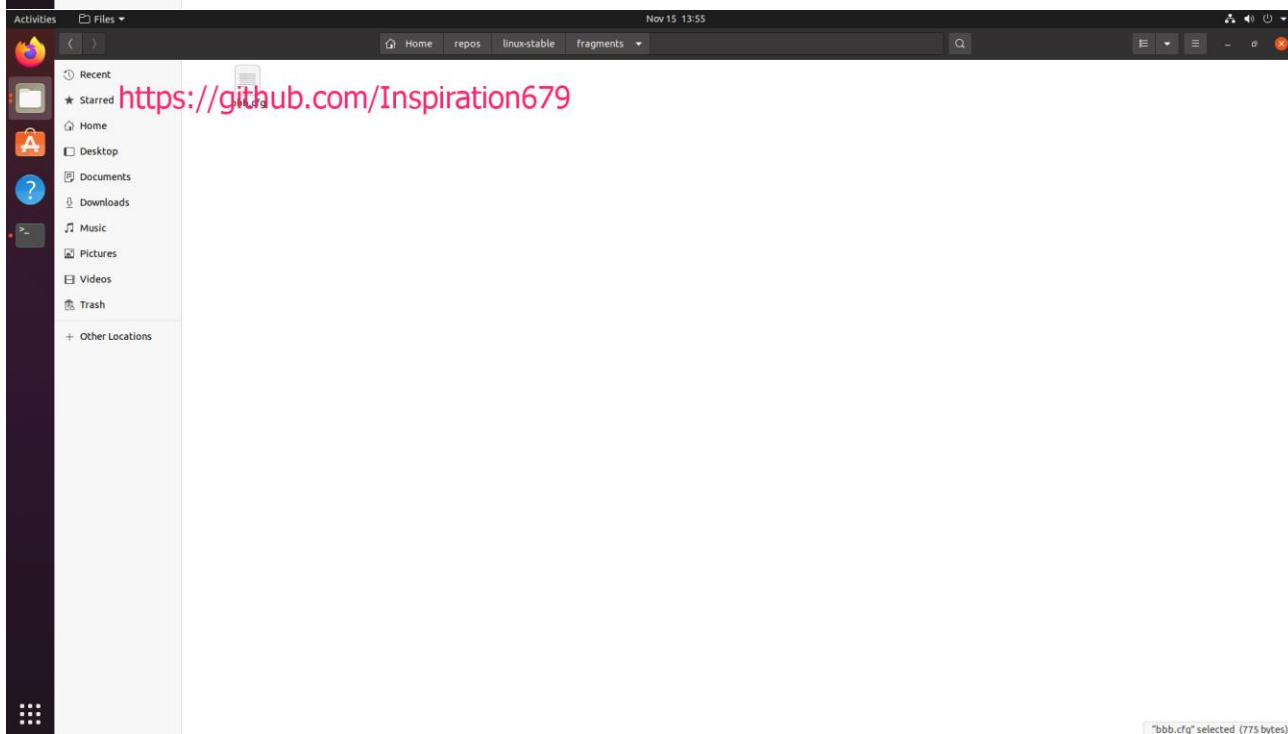
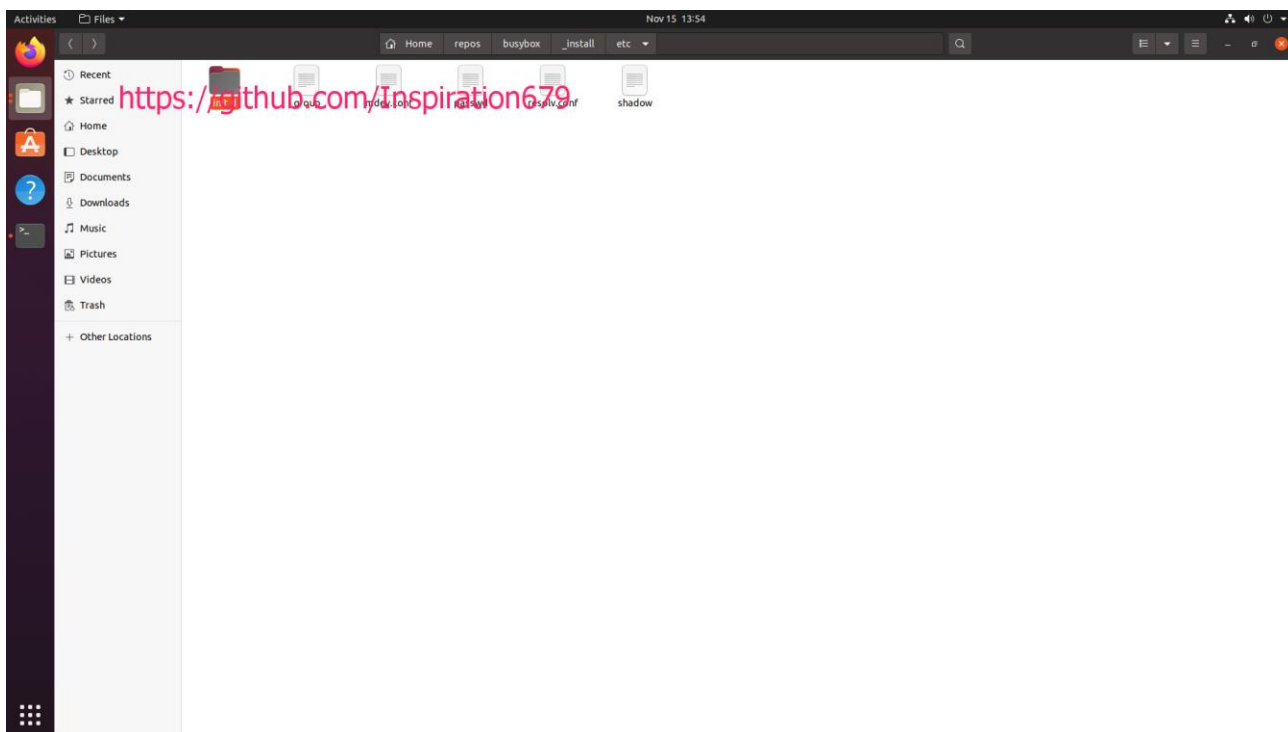
Нікольський С. С.

Київ 2021

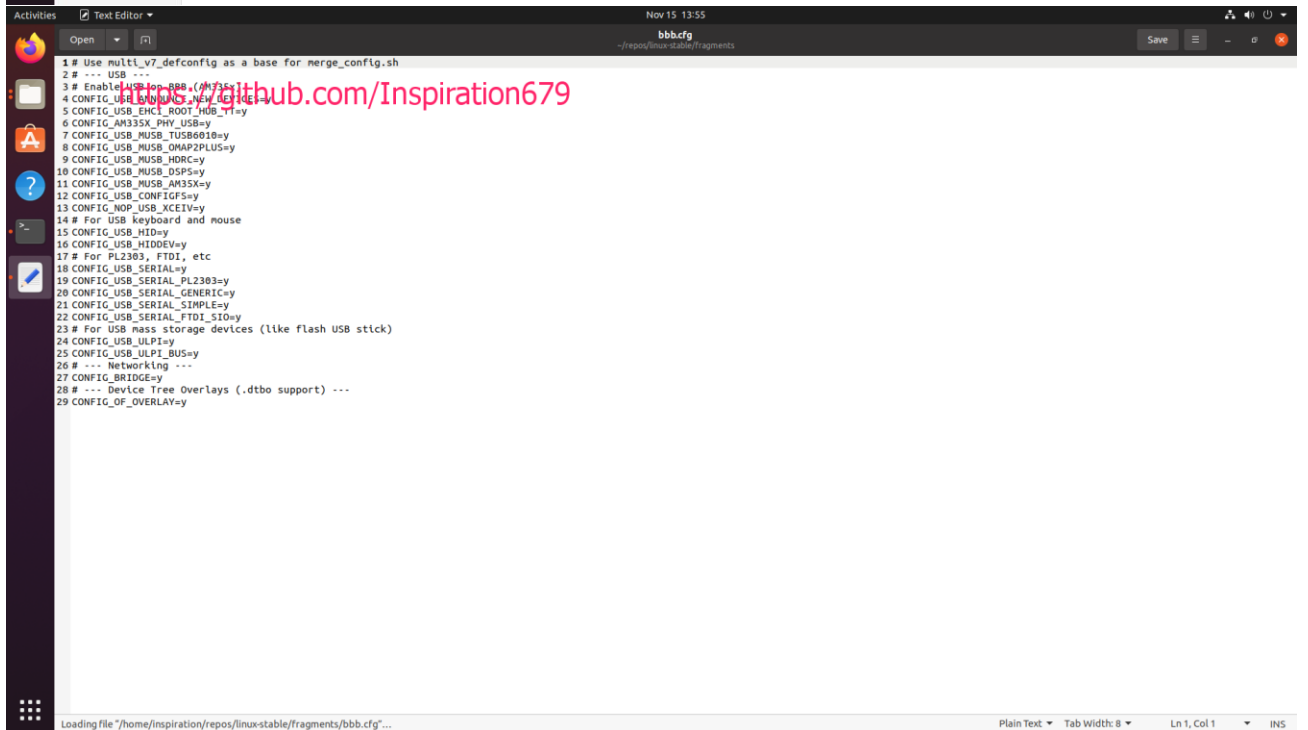
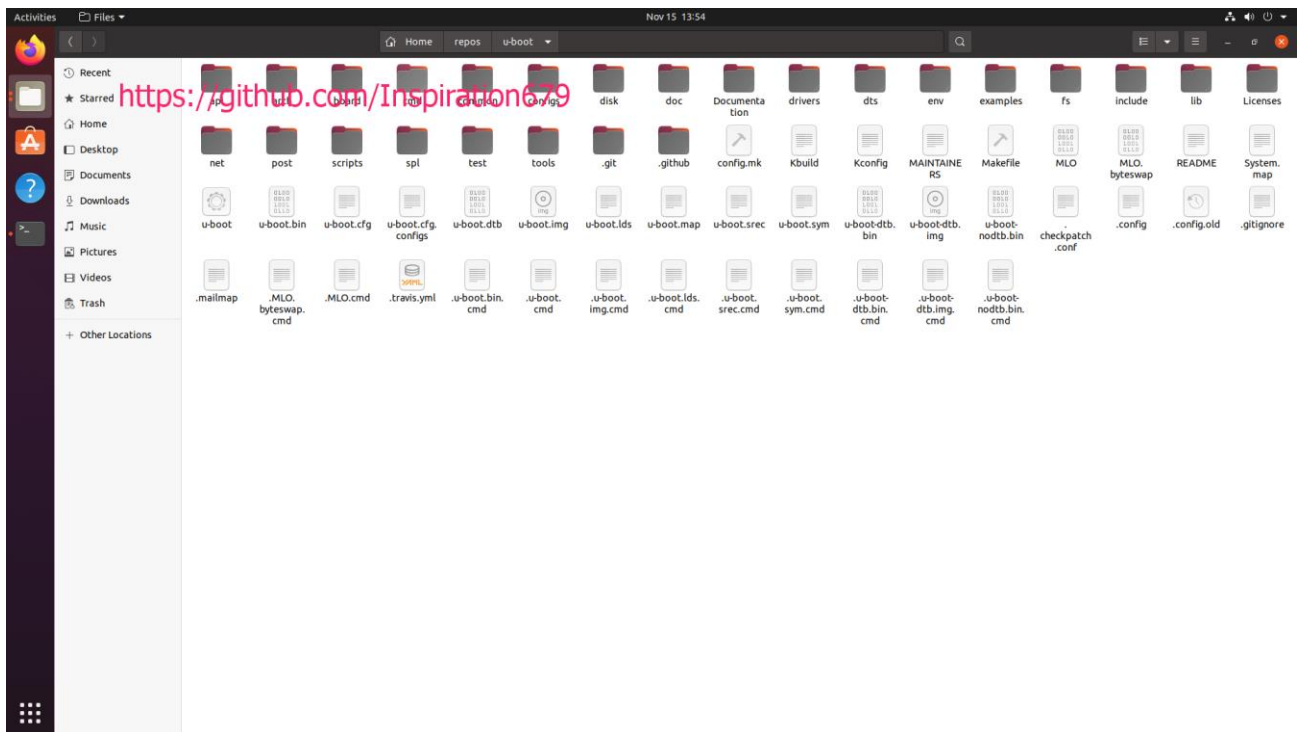


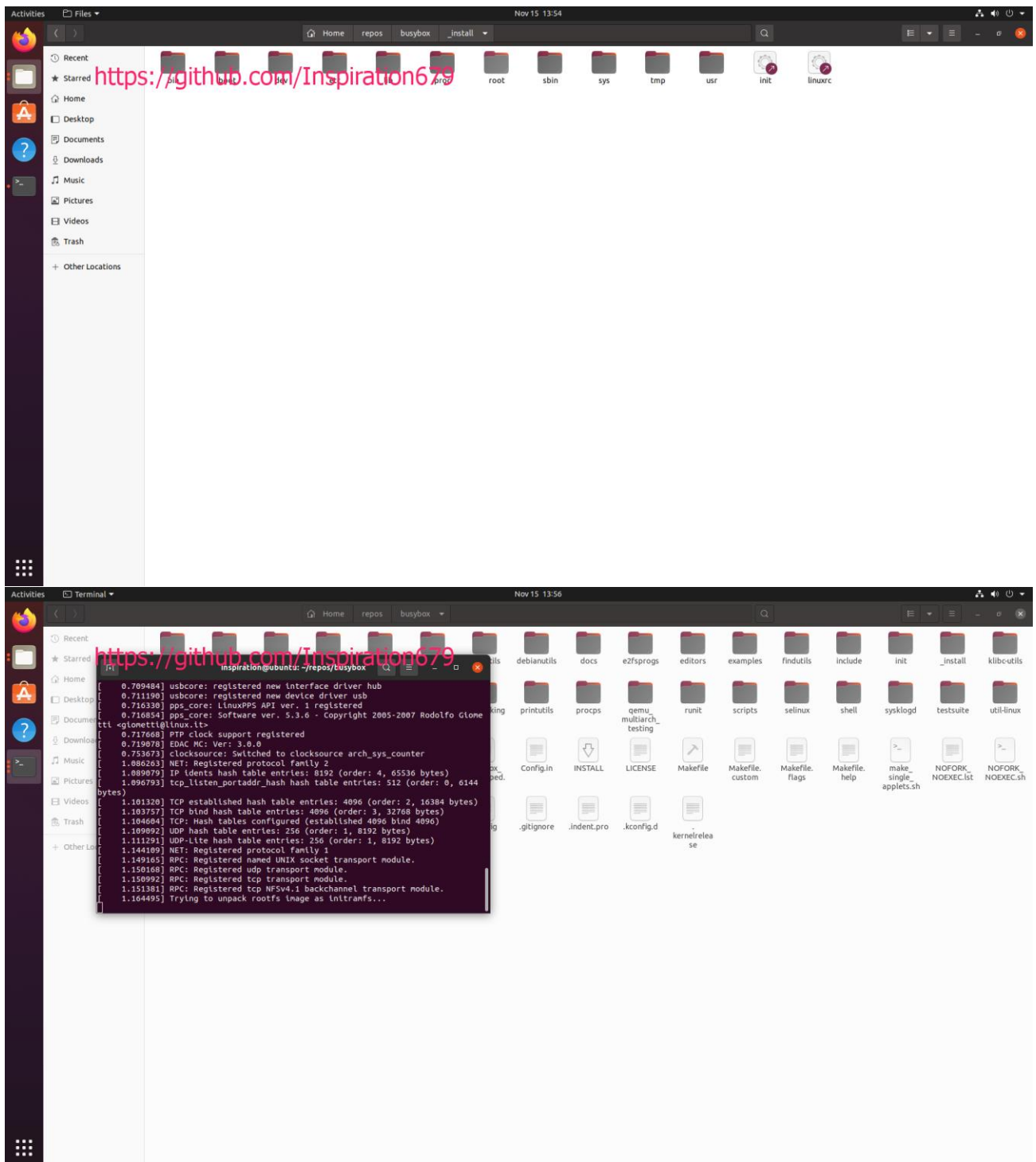






"bbb.cfg" selected (775 bytes)





Activities Terminal Nov 15 13:57

inspiration@ubuntu: ~/repos/busybox

```
inspiration@ubuntu:~/repos/busybox$ qemu-system-arm -kernel _install/boot/zImage \
-initrd rootfs.cpio.gz \
-machine virt -nographic -m 512 \
--append "root=/dev/ram0 rw console=ttyAMA0,115200 mem=512M"
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Linux version 4.19.217 (inspiration@ubuntu) (gcc version 8.3.0 (G
NU Toolchain for the A-profile Architecture 8.3-2019.03 (arm-rel-8.36))) #1 SMP
Fri Nov 12 18:04:19 PST 2021
[ 0.000000] CPU: ARMv7 Processor [412fc0f1] revision 1 (ARMv7), cr=10c5387d
[ 0.000000] CPU: div instructions available: patching division code
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[ 0.000000] OF: fdt: Machine model: linux,dummy-virt
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] efi: Getting EFI parameters from FDT:
[ 0.000000] efi: UEFI not found.
[ 0.000000] cma: Reserved 64 MiB at 0x5c000000
[ 0.000000] psct: probing for conduit method from DT.
[ 0.000000] psct: PSCTv0.2 detected in firmware.
[ 0.000000] psct: Using standard PSCT v0.2 function IDs
[ 0.000000] psct: Trusted OS migration not required
[ 0.000000] random: get_random_bytes called from start_kernel+0x9c/0x480 with
crng_init=0
[ 0.000000] percpu: Embedded 16 pages/cpu s36620 r8192 d20724 u65536
[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 130048
```

inspiration@ubuntu: ~/repos/busybox

```
inspiration@ubuntu:~/repos/busybox$ ./bin/busybox
BusyBox v1.31.1 (2021-11-13 02:10:42 PST) multi-call binary.
BusyBox is copyrighted by many authors between 1998-2015.
Licensed under GPLv2. See source distribution for detailed
copyright notices.

Usage: busybox [function [arguments]...]
or: busybox --list-full
or: busybox --show SCRIPT
or: busybox --install [-s] [DIR]
or: function [arguments]...

BusyBox is a multi-call binary that combines many common Unix
utilities into a single executable. Most people will create a
link to busybox for each function they wish to use and BusyBox
will act like whatever it was invoked as.

/ # poweroff
/ # umount: can't unmount /: Invalid argument
swapoff: can't open '/etc/fstab': No such file or directory
The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL to all processes
Requesting system poweroff
[ 84.177824] reboot: Power down
inspiration@ubuntu:~/repos/busybox$
```