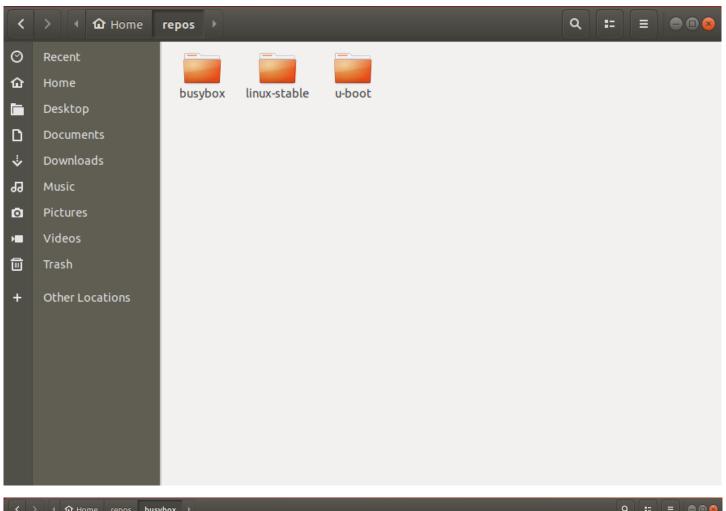
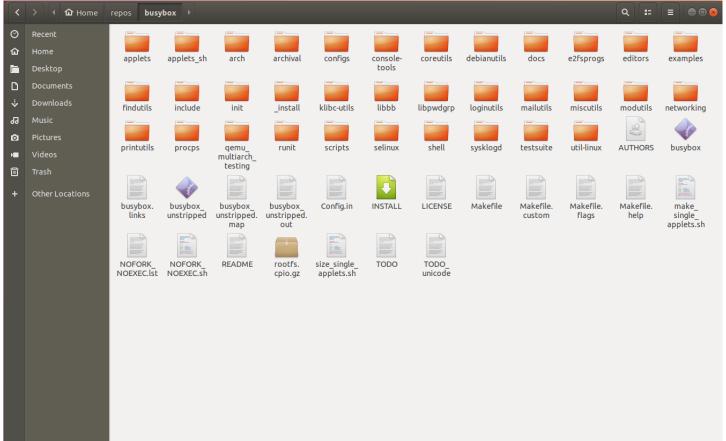
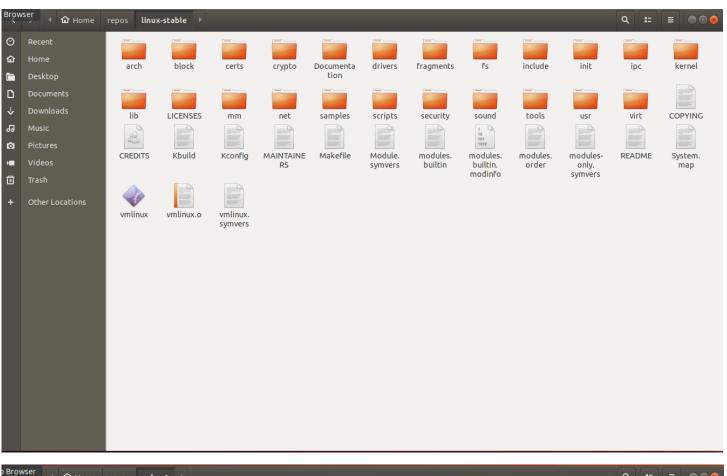
Національний технічний університет України «Київський політехнічний інститут імені Ігоря Сікорського» Факультет інформатики та обчислювальної техніки Кафедра обчислювальної техніки

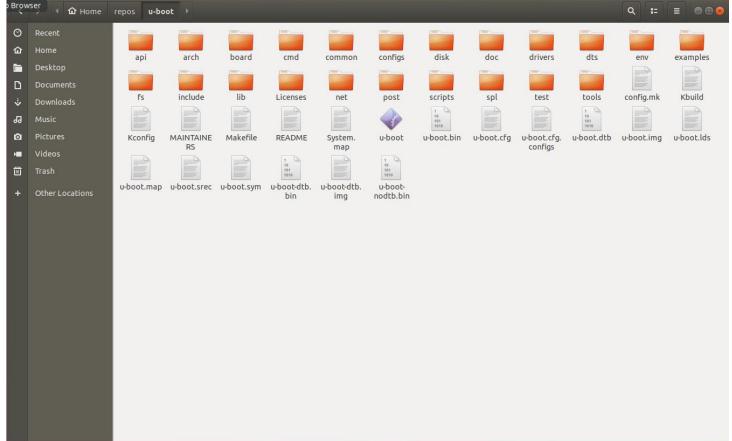
Архітектура комп'ютерів-2. Процесори Лабораторна робота №4

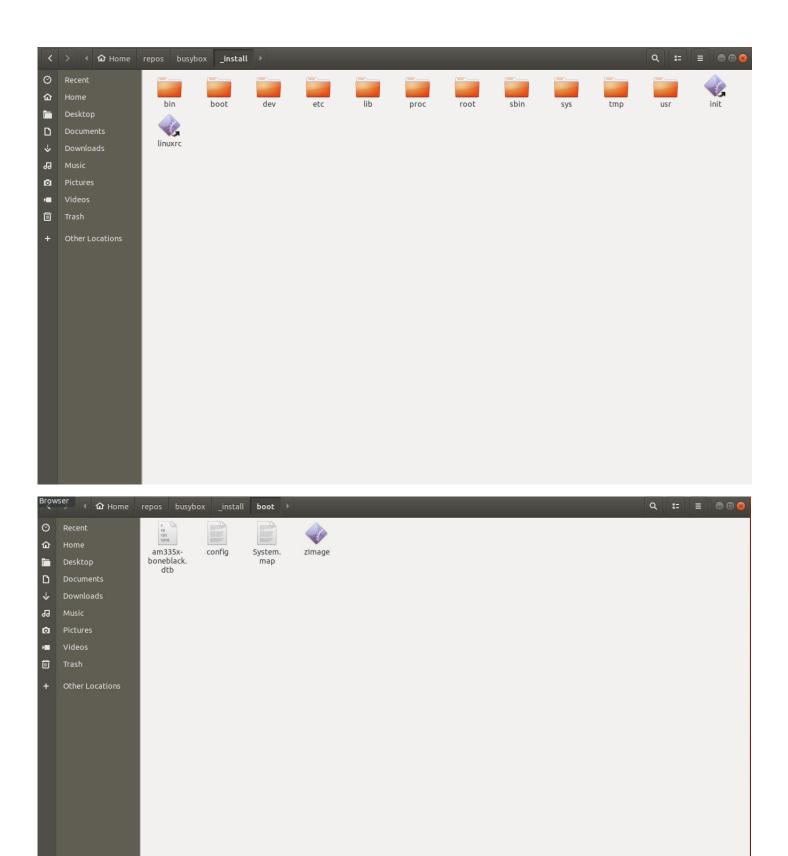
Виконав: студент групи IB-91 Липчак Дмитро Перевірив: пос. Нікольський С. С.

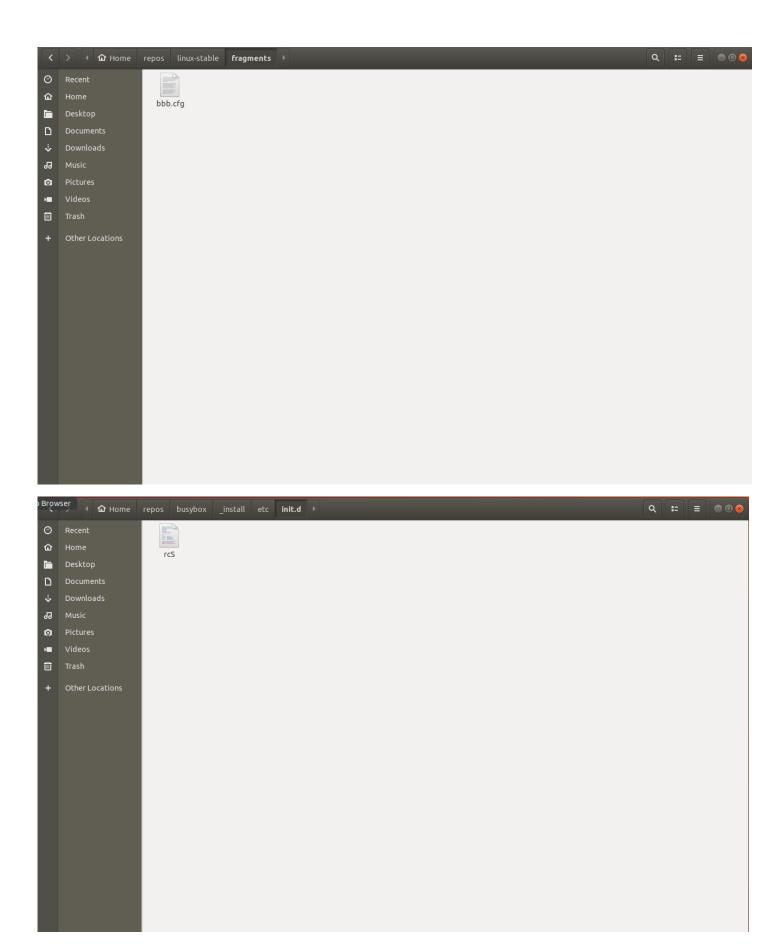












```
Please press Enter to activate this console.
/ # uname -a
Linux (none) 5.10.84 #1 SMP Wed Dec 8 09:29:48 PST 2021 armv7l GNU/Linux
/ # ls -l
total 0
drwxrwxr-x
                                         0 Dec 8 18:48 bin
            2 1000
                         1000
            2 1000
3 1000
drwxrwxr-x
                                         0 Dec 8 18:52 boot
                         1000
drwxrwxr-x
                         1000
                                        0 Dec 8 19:00 dev
            3 1000
drwxrwxr-x
                         1000
                                         0 Dec 8 18:55 etc
                                        11 Dec 8 18:52 init -> bin/busybo
lrwxrwxrwx 1 1000
                         1000
                                         0 Dec 8 18:54 lib
drwxrwxr-x 3 1000
                         1000
            1 1000
                                        11 Dec 8 18:48 linuxrc -> bin/bus
lrwxrwxrwx
                         1000
vbox
dr-xr-xr-x 88 root
                         root
                                        0 Dec 8 19:00 proc
drwxrwxr-x 2 1000
                         1000
                                        0 Dec 8 18:49 root
drwxrwxr-x 2 1000
dr-xr-xr-x 12 root
                                        0 Dec 8 18:48 sbin
                        1000
                                        0 Dec 8 19:00 sys
                         root
drwxrwxr-x 2 1000
drwxrwxr-x 4 1000
                         1000
                                        0 Dec 8 18:49 tmp
                         1000
                                         0 Dec 8 18:48 usr
/ # dmesg | grep init
     0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off
     0.000000] Memory: 400800K/524288K available (13312K kernel code, 2258K
rwdata, 5456K rodata, 2048K init, 426K bss, 57952K reserved, 65536K cma-re
served, OK highmem)
     0.000000] random: get_random_bytes called from start_kernel+0x388/0x52
8 with crng init=0
     0.043714] devtmpfs: initialized
     0.070940] pinctrl core: initialized pinctrl subsystem
     0.247125] SCSI subsystem initialized
     1.026945] Trying to unpack rootfs image as initramfs...
     2.485782] Freeing initrd memory: 28944K
     2.505976] nfs4filelayout init: NFSv4 File Layout Driver Registering...
     2.506317] nfs4flexfilelayout_init: NFSv4 Flexfile Layout Driver Regist
ering...
     2.677530] SuperH (H)SCI(F) driver initialized
     2.678956] msm serial: driver initialized
     2.679313] STMicroelectronics ASC driver initialized
     2.680851] STM32 USART driver initialized
     4.957319] Run /init as init process
                  /init
     4.957766]
 # busybox --help | head -15
BusyBox v1.34.1 (2021-12-08 10:46:33 PST) multi-call binary.
BusvBox is copvrighted by many authors between 1998-2015.
```

```
BusyBox v1.34.1 (2021-12-08 10:46:33 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
[ 350.765426] Flash device refused suspend due to active operation (state 20)
[ 350.765707] Flash device refused suspend due to active operation (state 20)
[ 350.766146] reboot: Power down
dmch@ubuntu:~/repos/busybox$
```