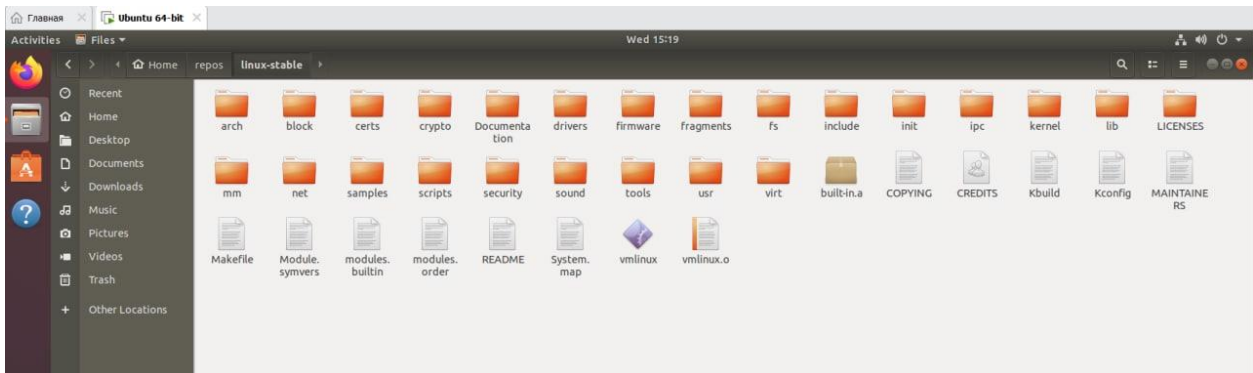
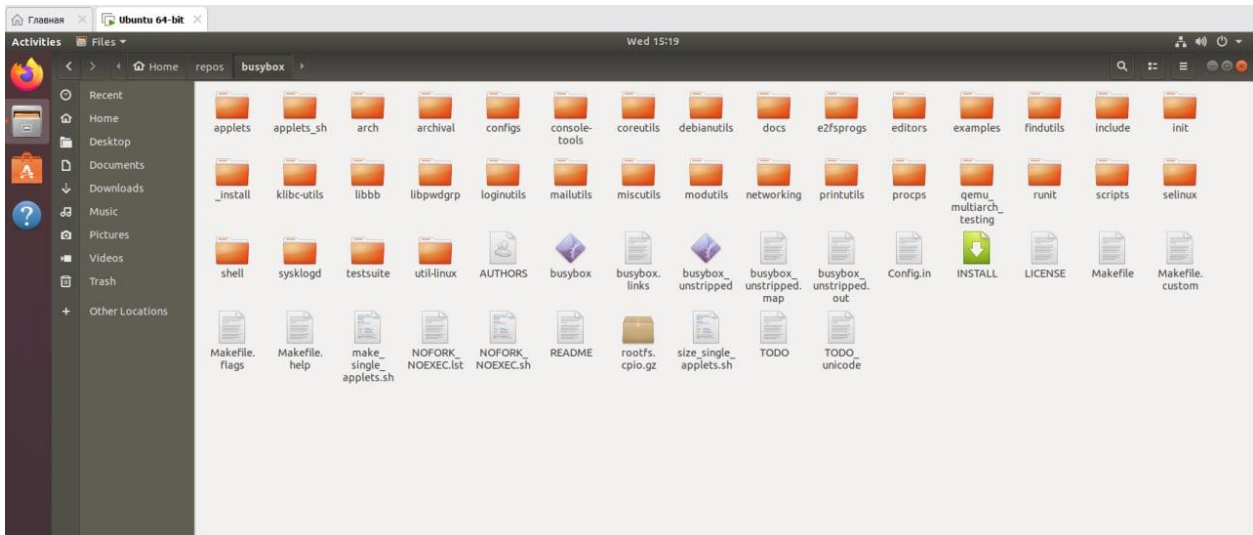
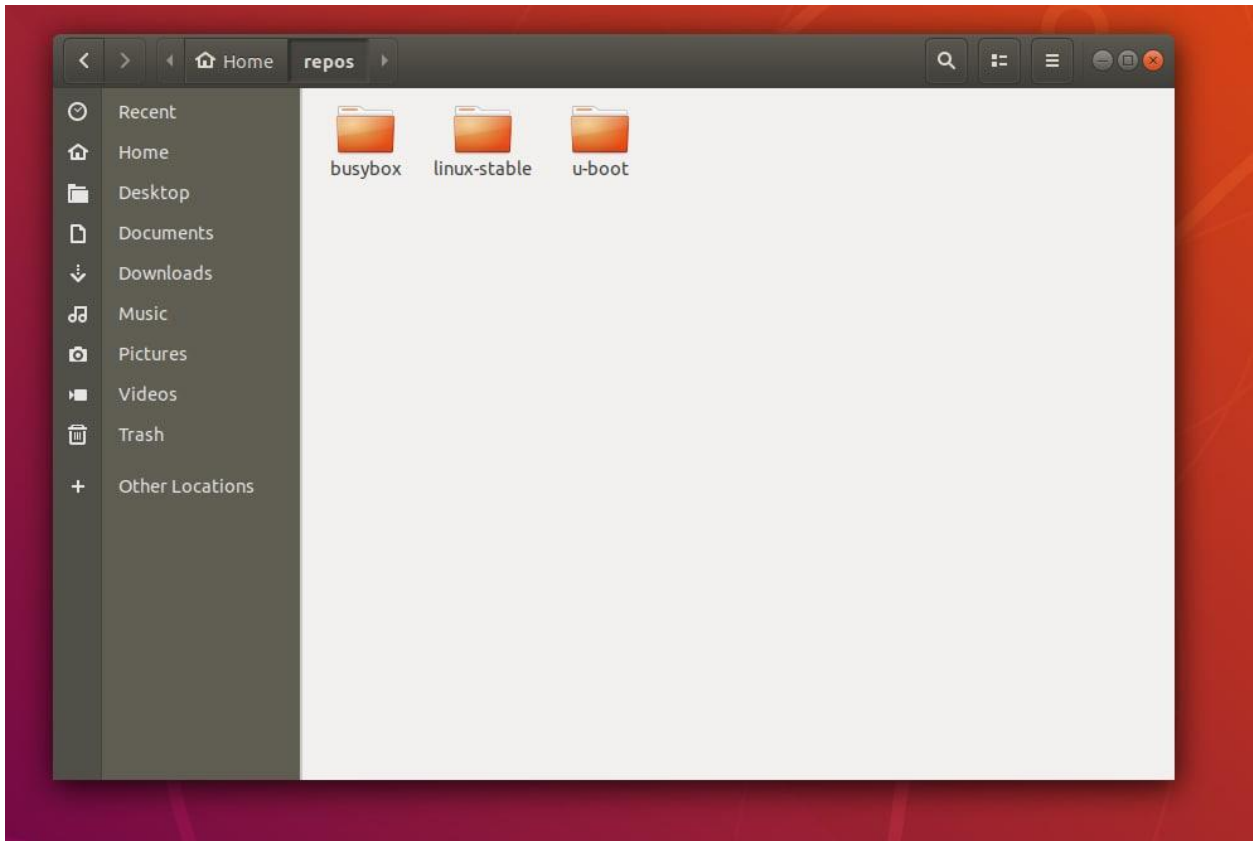


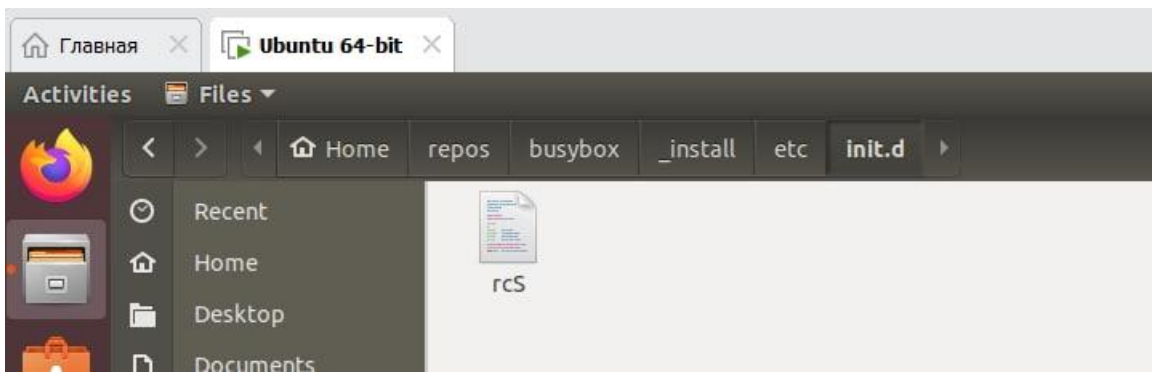
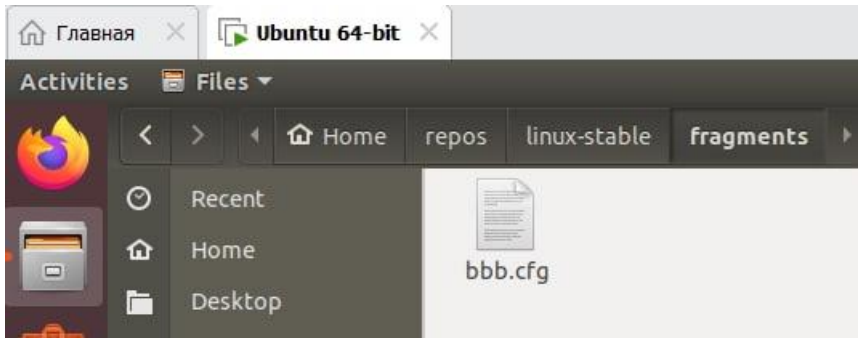
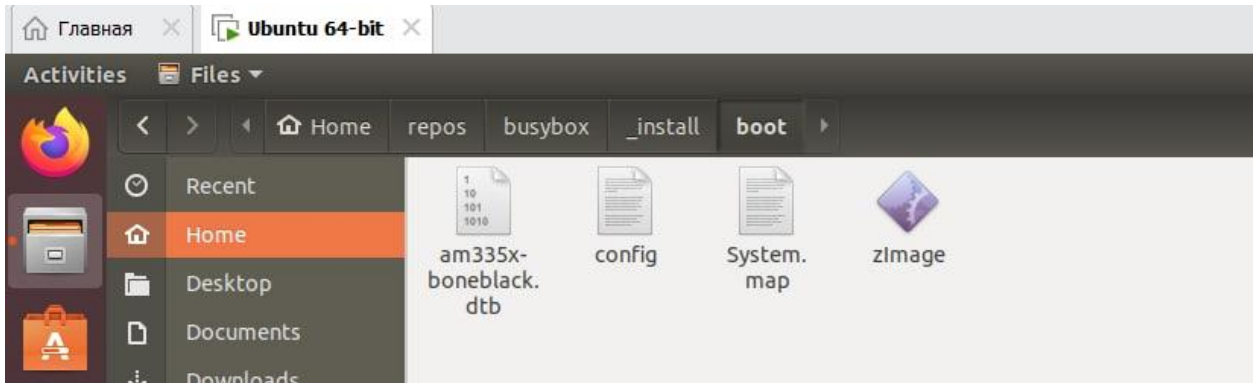
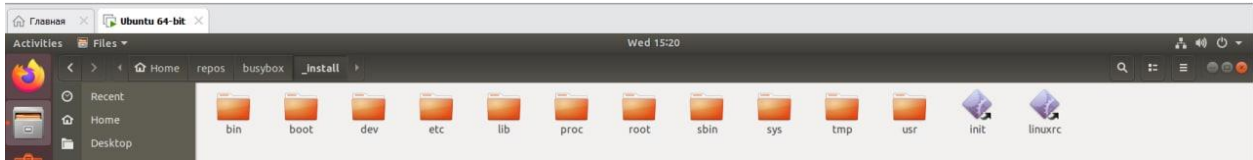
Національний технічний університет України
«Київський політехнічний інститут імені Ігоря Сікорського»
Факультет інформатики та обчислювальної техніки
Кафедра обчислювальної техніки

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

Виконав:
студент групи ІВ-91
Хандельди Олексій
Перевірів:
пос. Нікольський С. С.

Київ 2021 р





```

Please press Enter to activate this console.
/ # uname -a
Linux (none) 4.19.220 #1 SMP Wed Dec 8 13:54:08 PST 2021 armv7l GNU/Linux
/ # ls -l
total 0
drwxrwxr-x 2 1000 1000 0 Dec 8 22:54 bin
drwxrwxr-x 2 1000 1000 0 Dec 8 23:00 boot
drwxrwxr-x 3 1000 1000 0 Dec 8 23:06 dev
drwxrwxr-x 3 1000 1000 0 Dec 8 23:03 etc
lrwxrwxrwx 1 1000 1000 11 Dec 8 23:00 init -> bin/busybox
drwxrwxr-x 3 1000 1000 0 Dec 8 23:02 lib
lrwxrwxrwx 1 1000 1000 11 Dec 8 22:54 linuxrc -> bin/busybox
dr-xr-xr-x 91 root root 0 Jan 1 1970 proc
drwxrwxr-x 2 1000 1000 0 Dec 8 22:54 root
drwxrwxr-x 2 1000 1000 0 Dec 8 22:54/sbin
dr-xr-xr-x 12 root root 0 Dec 8 23:06 sys
drwxrwxr-x 2 1000 1000 0 Dec 8 22:54 tmp
drwxrwxr-x 4 1000 1000 0 Dec 8 22:54 usr
/ # dmesg | grep init
[ 0.000000] random: get_random_bytes called from start_kernel+0x9c/0x47c with crng_init=0
[ 0.000000] Memory: 407376K/524288K available (12288K kernel code, 1619K rdata, 4784K rodata, 2048K init, 393K bss, 51376K reserved, 65536K cma-reserved, 0K highmem)
[ 0.000000] .init : 0x(ptrval) - 0x(ptrval) (2048 kB)
[ 0.107665] devtmpfs: initialized
[ 0.150880] pinctrl core: initialized pinctrl subsystem
[ 0.426795] SCSI subsystem initialized
[ 0.782771] Trying to unpack rootfs image as initramfs...
[ 3.393946] Freeing initrd memory: 25104K
[ 3.788923] SuperH (H)SCI(F) driver initialized
[ 3.791172] msm_serial: driver initialized
[ 3.791962] STMicroelectronics ASC driver initialized
[ 3.794429] STM32 USART driver initialized
[ 4.324083] Run /init as init process
/ # busybox --help | head -15
BusyBox v1.34.1 (2021-12-08 14:51:33 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
[ 159.092520] reboot: Power down
alex@ubuntu:~/repos/busybox$ S

```