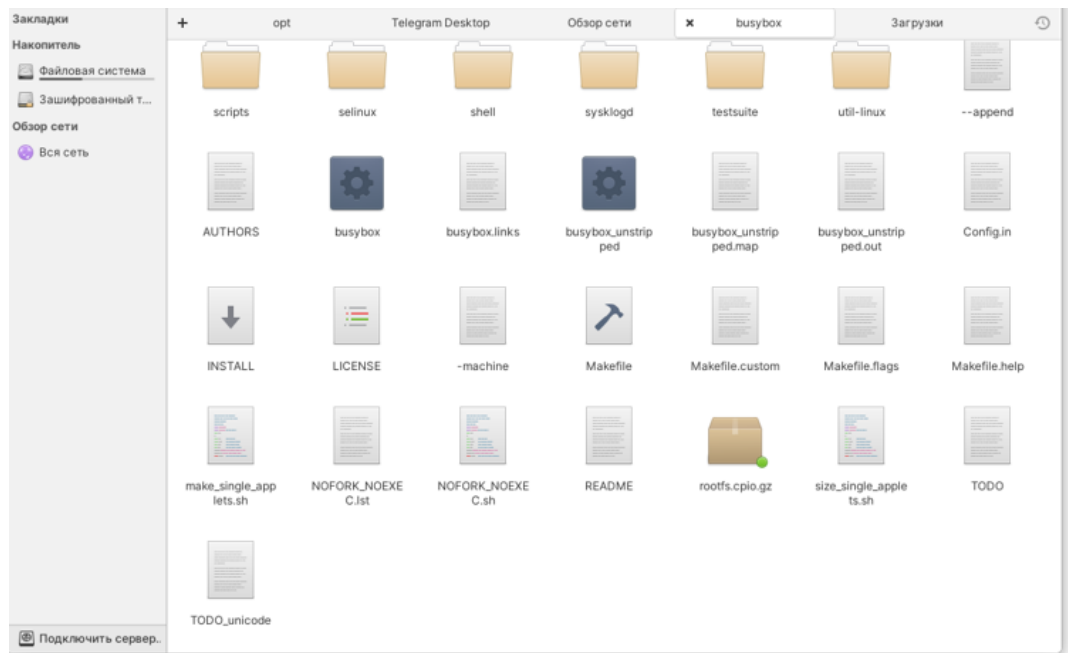
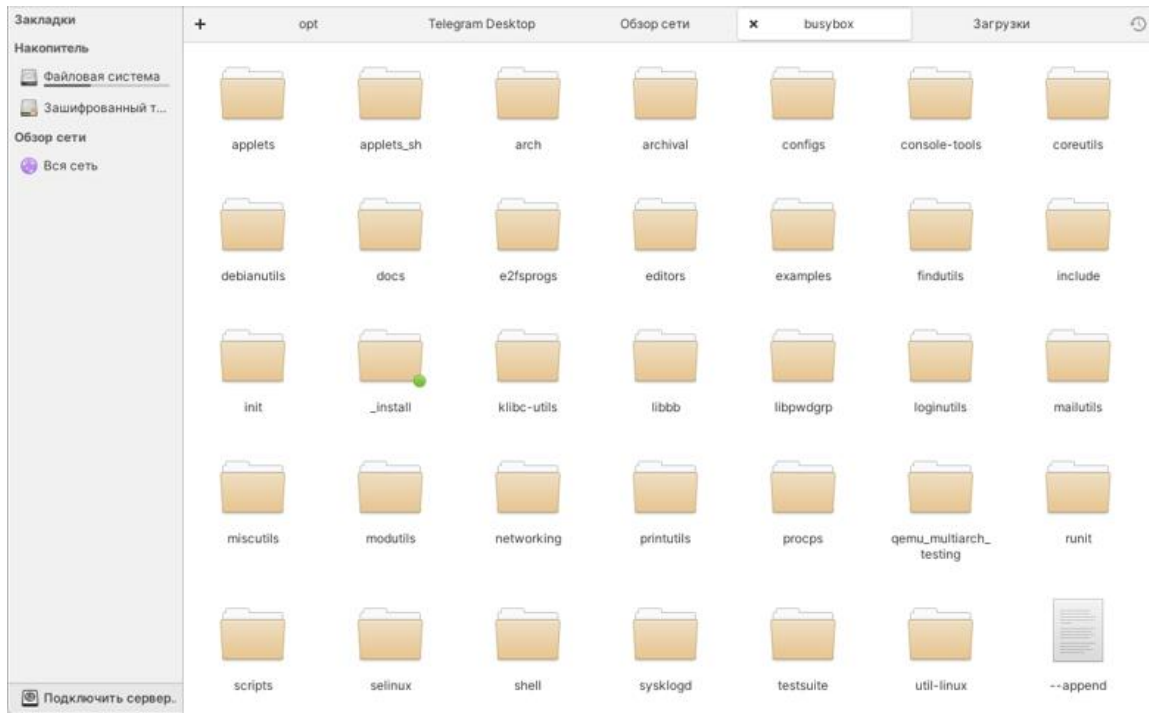


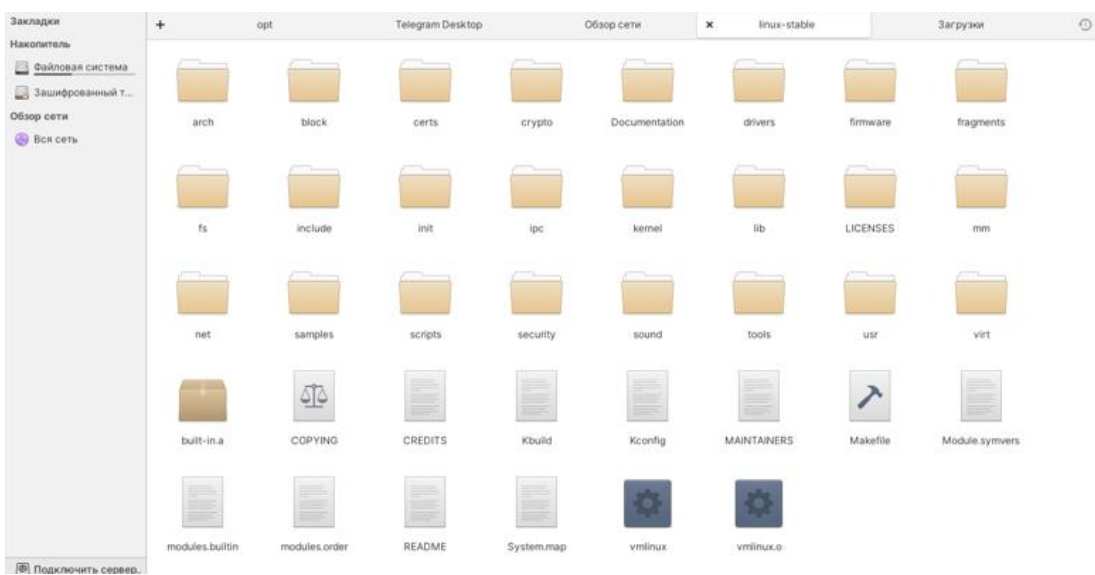
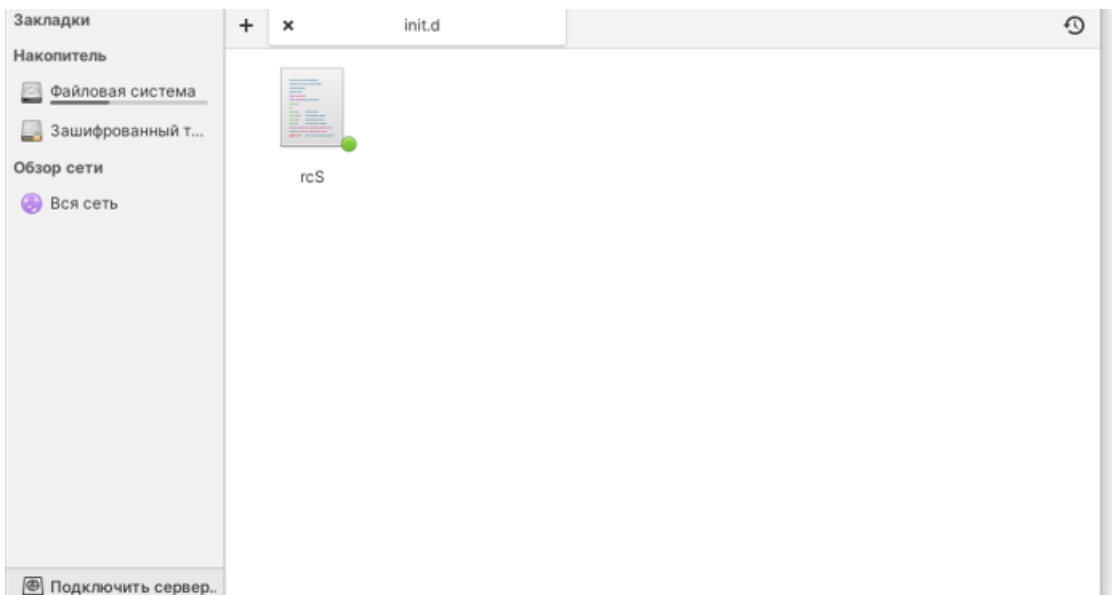
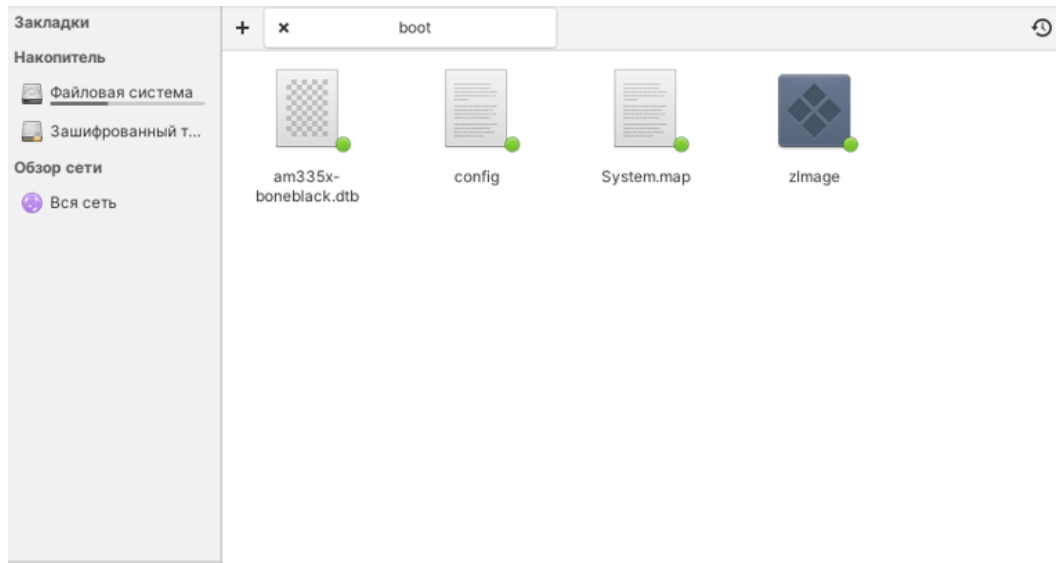
Національний технічний університет України  
«Київський політехнічний інститут імені Ігоря Сікорського»  
Факультет інформатики та обчислювальної техніки  
Кафедра обчислювальної техніки

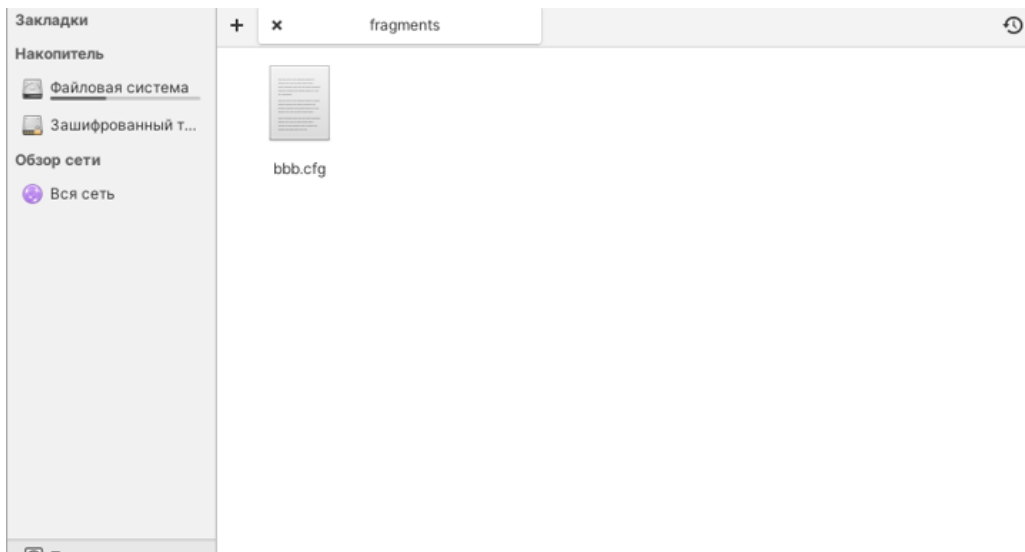
Архітектура комп'ютерів-2. Процесори  
Лабораторна робота №4

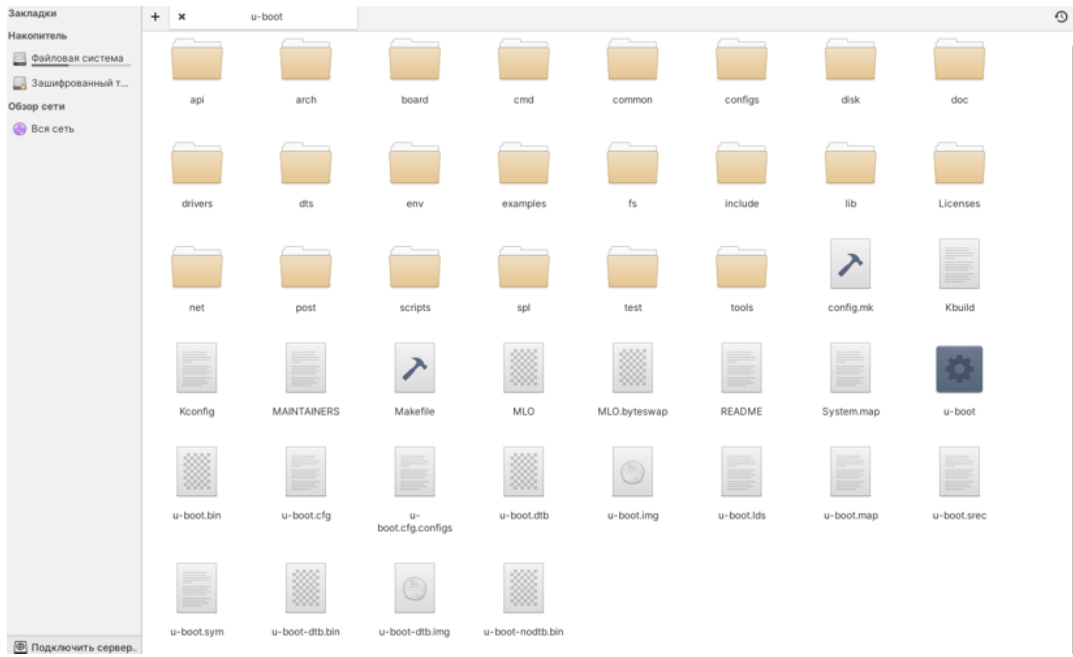
Виконала:  
студентка групи ІВ-91  
Іванькова Анна  
Перевірив:  
пос. Нікольський С. С.

Київ 2021 р.









```
+ x busybox
Please press Enter to activate this console.
/ # uname -a
Linux (none) 4.19.220 #1 SMP Wed Dec 8 17:56:26 UTC 2021 armv7l GNU/Linux
/ # ls -l
total 0
drwxrwxr-x 2 1000 1000 0 Dec 8 19:01 bin
drwxrwxr-x 2 1000 1000 0 Dec 8 19:03 boot
drwxrwxr-x 3 1000 1000 0 Dec 8 19:23 dev
drwxrwxr-x 3 1000 1000 0 Dec 8 19:07 etc
lrwxrwxrwx 1 1000 1000 11 Dec 8 19:03 init -> bin/busybox
drwxrwxr-x 3 1000 1000 0 Dec 8 19:05 lib
lrwxrwxrwx 1 1000 1000 11 Dec 8 19:01 linuxrc -> bin/busybox
dr-xr-xr-x 90 root root 0 Jan 1 1970 proc
drwxrwxr-x 2 1000 1000 0 Dec 8 19:01 root
drwxrwxr-x 2 1000 1000 0 Dec 8 19:01 sbin
dr-xr-xr-x 12 root root 0 Dec 8 19:23 sys
drwxrwxr-x 2 1000 1000 0 Dec 8 19:01 tap
drwxrwxr-x 4 1000 1000 0 Dec 8 19:01 usr
/ # dmesg | grep init
[ 0.000000] random: get_random_bytes called from start_kernel+0x9c/0x47c with crng_init=0
[ 0.000000] Memory: 406420K/524288K available (12288K kernel code, 1619K rdata, 4784K rodata, 2048K init,
393K bss, 52332K reserved, 65536K cma-reserved, 0K highmem)
[ 0.000000] .init : 0x(ptrval) - 0x(ptrval) (2048 kB)
[ 0.049854] devtmpfs: initialized
[ 0.068477] pinctrl core: initialized pinctrl subsystem
[ 0.156626] SCSI subsystem initialized
[ 0.247581] Trying to unpack rootfs image as initramfs...
[ 1.254861] Freeing initrd memory: 25100K
[ 1.335020] SuperH (H)SCI(F) driver initialized
[ 1.335757] msm_serial: driver initialized
[ 1.335955] STMicroelectronics ASC driver initialized
[ 1.336656] STM32 USART driver initialized
[ 1.513962] Run /init as init process

/ # busybox --help | head -15
BusyBox v1.34.1 (2021-12-08 18:59:18 UTC) 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
[ 165.159375] reboot: Power down
```