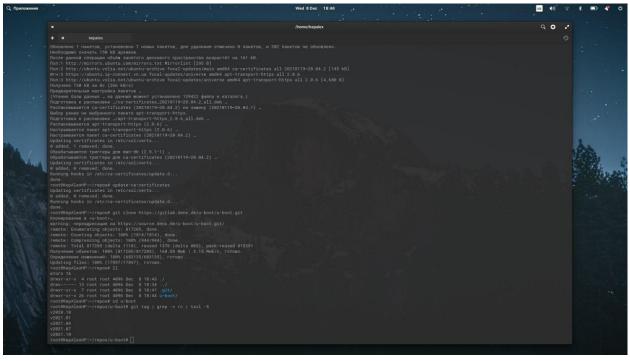
Міністерство освіти і науки України Національний технічний університет України «Київський політехнічний інститут ім. Ігоря Сікорського» Факультет інформатики та обчислювальної техніки Кафедра обчислювальної техніки

ЛАБОРАТОРНА РОБОТА № 4

з дисципліни «АК» на тему

ВИКОНАВ: студент III курсу ФІОТ групи IB-91 Гришин О.С.



```
# configuration written to .config
root@KepAlexHP:~/repos/u-boot# 11
итого 584
drwxr-xr-x 25 root root 4096 Dec 8 18:53 ./
drwxr-xr-x 2 root root 4096 Dec 8 18:50 api/
drwxr-xr-x 15 root root 4096 Dec 8 18:50 arch/
-rw-r--r- 1 root root 17164 Dec 8 18:50 .azure-pipelines.yml
drwxr-xr-x 174 root root 4096 Dec 8 18:50 board/
-rw-r--r- 1 root root 817 Dec 8 18:50 .checkpatch.conf
drwxr-xr-x 9 root root 4096 Dec 8 18:50 cmd/
drwxr-xr-x 5 root root 4096 Dec 8 18:50 common/
-rw-r--r-- 1 root root 45168 Dec 8 18:53 .config
-rw-r--r-- 1 root root 2157 Dec 8 18:50 config.mk
drwxr-xr-x 2 root root 69632 Dec 8 18:51 configs/
drwxr-xr-x 2 root root 4096 Dec 8 18:51 disk/
drwxr-xr-x 19 root root 12288 Dec 8 18:51 doc/
drwxr-xr-x 70 root root 4096 Dec 8 18:51 drivers/
drwxr-xr-x 2 root root 4096 Dec 8 18:51 dts/
drwxr-xr-x 2 root root 4096 Dec 8 18:51 env/
drwxr-xr-x 4 root root 4096 Dec 8 18:51 examples/
drwxr-xr-x 14 root root 4096 Dec 8 18:51 fs/
-rw-r--r- 1 root root 169 Dec 8 18:50 .gitattributes
drwxr-xr-x 2 root root 4096 Dec 8 18:50 .github/
-rw-r--r-- 1 root root 939 Dec 8 18:50 .gitignore
-rw-r--r-- 1 root root 9870 Dec 8 18:50 .gitlab-ci.yml
drwxr-xr-x 35 root root 20480 Dec 8 18:51 include/
-rw-r--r-- 1 root root
                        783 Dec 8 18:50 Kbuild
-rw-r--r-- 1 root root 15502 Dec 8 18:50 Kconfig
drwxr-xr-x 23 root root 4096 Dec 8 18:51 lib/
drwxr-xr-x 2 root root 4096 Dec 8 18:50 Licenses/
-rw-r--r-- 1 root root 2393 Dec 8 18:50 .mailmap
          1 root root 33511 Dec 8 18:50 MAINTAINERS
          1 root root 77587 Dec 8 18:50 Makefile
-rw-r--r--
drwxr-xr-x 2 root root 4096 Dec 8 18:51 net/
-rw-r--r- 1 root root 502 Dec 8 18:50 .readthedocs.yml
drwxr-xr-x 6 root root 4096 Dec 8 18:51 scripts/
drwxr-xr-x 15 root root 4096 Dec 8 18:51 test/
drwxr-xr-x 15 root root 4096 Dec 8 18:51 tools/
root@KepAlexHP:~/repos/u-boot#
```

```
LD [M] sound/usb/snd-usb-audio.ko
LD [M] sound/usb/snd-usbmidi-lib.ko
root@KepAlexHP:~/repos/linux-stable# ll | grep arch
drwxr-xr-x 26 root root 4096 Dec 8 19:46 arch/
root@KepAlexHP:~/repos/linux-stable#
```

```
bin boot dev etc init lib linuxrc proc root sbin sys tmp usr root@KepAlexHP:~/repos# ls busybox/_install/etc/
group init.d mdev.conf passwd resolv.conf shadow root@KepAlexHP:~/repos#
```

```
group init.d mdev.conf passwd resolv.conf shadow root@KepAlexHP:~/repos# cat busybox/_install/etc/init.d/rcS #!/bin/sh mount -t sysfs none /sys mount -t proc none /proc mount -t debugfs none /sys/kernel/debug echo /sbin/mdev > /proc/sys/kernel/hotplug mdev -s root@KepAlexHP:~/repos#
```

```
mdev -s
root@KepAlexHP:~/repos# ls linux-stable/
arch certs crypto firmware include Kbuild lib Makefile modules.order README security tools vmlinux
block COPYING Documentation fragments init Kconfig LICENSES mm Module.symvers samples sound usr vmlinux.o
built-in.a CREDITS drivers fs ipc kernel MAINTAINERS modules.builtin net scripts System.map virt
root@KepAlexHP:~/repos#
```

```
built-in.a CREDITS drivers
                                                        kernel
                                                                 MAINTAINERS
root@KepAlexHP:~/repos# cat linux-stable/fragments/bbb.cfg
# Use multi_v7_defconfig as a base for merge_config.sh
CONFIG_USB_ANNOUNCE_NEW_DEVICES=y
CONFIG_USB_EHCI_ROOT_HUB_TT=y
CONFIG_AM335X_PHY_USB=y
CONFIG_USB_MUSB_TUSB6010=y
CONFIG_USB_MUSB_OMAP2PLUS=y
CONFIG_USB_MUSB_HDRC=y
CONFIG_USB_MUSB_DSPS=y
CONFIG_USB_MUSB_AM35X=y
CONFIG_USB_CONFIGFS=y
CONFIG_NOP_USB_XCEIV=y
# For USB keyboard and mouse
CONFIG_USB_HID=y
CONFIG_USB_HIDDEV=y
# For PL2303, FTDI, etc
CONFIG_USB_SERIAL=y
CONFIG_USB_SERIAL_PL2303=y
CONFIG_USB_SERIAL_GENERIC=y
CONFIG_USB_SERIAL_SIMPLE=y
CONFIG_USB_SERIAL_FTDI_SIO=y
# For USB mass storage devices (like flash USB stick)
CONFIG_USB_ULPI=y
CONFIG_USB_ULPI_BUS=y
# --- Networking ---
CONFIG_BRIDGE=y
# --- Device Tree Overlays (.dtbo support) ---
CONFIG_OF_OVERLAY=v
root@KepAlexHP:~/repos#
```