zadanie domowe 1

ramdysk startowy

Wpisujemy

```
make qemu_aarch64_virt_defconfig
make menuconfig
```

Ustawiamy tak jak poniżej folder Filesystem images/

```
-*- cpio the root filesystem (for use as an initial RAM filesystem)
   cpio type (cpio the whole root filesystem) --->
      Compression method (gzip) --->
    Create U-Boot image of the root filesystem
[ ] cramfs root filesystem
[ ] erofs root filesystem
[*] ext2/3/4 root filesystem
     ext2/3/4 variant (ext2 (rev1)) --->
(rootfs) filesystem label
(60M) exact size
(0) exact number of inodes (leave at 0 for auto calculation)
(256) inode size
(5) reserved blocks percentage
(-0 ^64bit) additional mke2fs options
     Compression method (no compression) --->
[ ] f2fs root filesystem
[*] initial RAM filesystem linked into linux kernel
```

```
make clean all
make
```

Dodatkowo w pliku start_qemu.sh zmieniliśmy

```
exec qemu-system-aarch64 -M virt -cpu cortex-a53 -nographic -smpend "rootwait root=/dev/vda console=ttyAMA0" -netdev user,:
virtio-net-device, netdev=eth0 -drive file=rootfs.ext2, if=none, for -device virtio-blk-device, drive=hd0 ${EXTRA_ARGS} "$@"
```

na

zadanie domowe 1

```
exec qemu-system-aarch64 -M virt -cpu cortex-a53 -nographic -smp Image -append "rootwait root=/dev/vda console=ttyAMA0" -netdev under the device virtio-net-device, netdev=eth0 -drive file=rootfs.cpio, in id=hd0 -device virtio-blk-device, drive=hd0 ${EXTRA_ARGS} "$@"
```

Po kompilacji system działa, a zapisane pliki nie pojawiają się po reboocie

```
Welcome to Buildroot
buildroot login: IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready
root
# echo "a" > a
# ls
a
# echo "a" > a.txt
# ls
a a.txt
# ls
```

```
Welcome to Buildroot
buildroot login: IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready
root
# ls
#
```

rzeczywisty system plików

```
make qemu_aarch64_virt_defconfig
make menuconfig
```

Ustawiamy tak jak poniżej folder Filesystem images/

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```
[ ] axfs root filesystem
[ ] btrfs root filesystem
[ ] cloop root filesystem for the target device
[ ] cpio the root filesystem (for use as an initial RAM filesystem)
[ ] cramfs root filesystem
[ ] erofs root filesystem
[*] ext2/3/4 root filesystem
     ext2/3/4 variant (ext2 (rev1)) --->
(rootfs) filesystem label
(60M) exact size
(0) exact number of inodes (leave at 0 for auto calculation)
(256) inode size
(5) reserved blocks percentage
(-0 ^64bit) additional mke2fs options
     Compression method (no compression) --->
[ ] f2fs root filesystem
[ ] initial RAM filesystem linked into linux kernel
[ ] jffs2 root filesystem
[ ] oci image
[ ] romfs root filesystem
[ ] squashfs root filesystem
```

```
make clean all
make
```

Po kompilacji system działa, a pliki zostają po reboocie

```
Welcome to Buildroot
buildroot login: IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready
root
# ls
a.txt
#
```

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