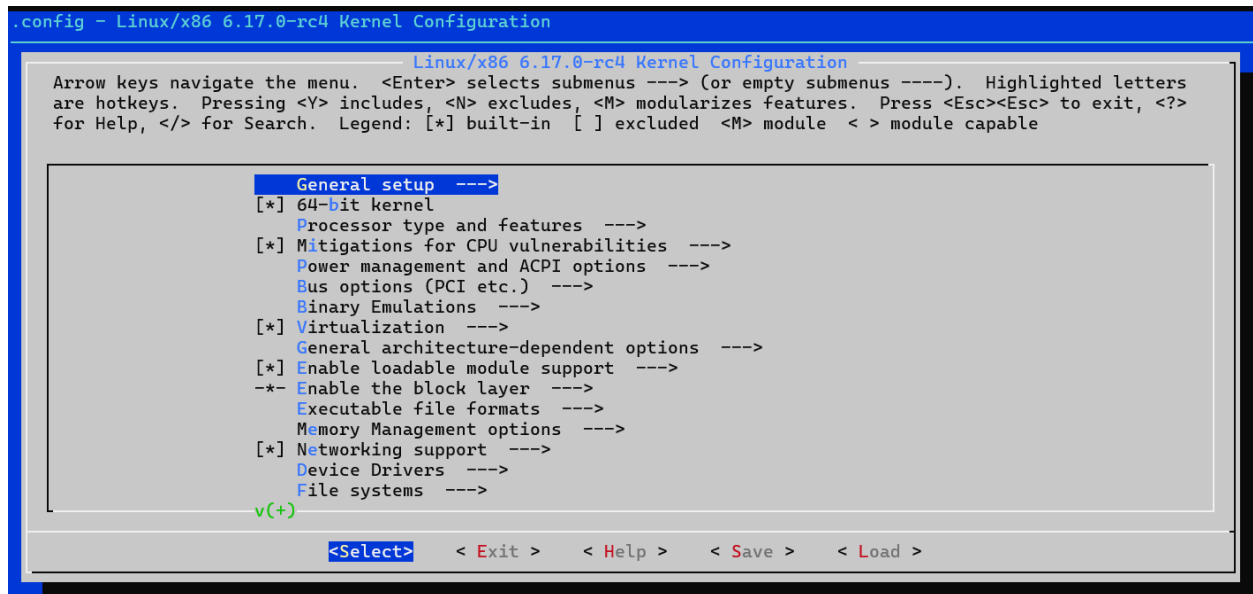


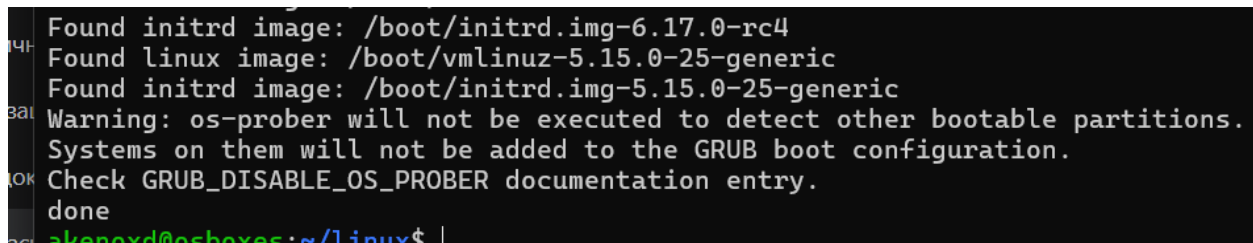
# Ядро

make defconfig  
make menuconfig



Довольно долго пробовал отключать ненужное, начиная с драйверов, но в итоге ядро ни разу не собралось. Получилось только с defconfig

сохранили, собрали  
make  
sudo make install



sudo update-grub

```
akenoxd@osboxes:~/linux$ sudo update-grub
Sourcing file '/etc/default/grub'
Sourcing file '/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-6.17.0-rc4
Found initrd image: /boot/initrd.img-6.17.0-rc4
Found linux image: /boot/vmlinuz-6.17.0-rc4.old
Found initrd image: /boot/initrd.img-6.17.0-rc4
Found linux image: /boot/vmlinuz-5.15.0-25-generic
Found initrd image: /boot/initrd.img-5.15.0-25-generic
Warning: os-prober will not be executed to detect other bootable partitions.
Systems on them will not be added to the GRUB boot configuration.
Check GRUB_DISABLE_OS_PROBER documentation entry.
done
```

перезагрузились

sudo reboot

6.17.0-rc4 – новое ядро



загрузились

```
Last login: Sun Sep 1
akenoxd@osboxes:~$ ls
linux
uname -r
6.17.0-rc4
akenoxd@osboxes:~$
```

# Ядро под arm

собрали ядро

ARCH=arm CROSS\_COMPILE=arm-linux-gnueabi- make zImage -j12

собрали dtb

ARCH=arm make dtbs -j12

скопировали в одну папку, запустили в qemu

qemu-system-arm -M vexpress-a9 -kernel zImage -dtb vexpress-v2p-ca9.dtb  
-append"console=ttyAMA0" -nographic

```
[ 1.885295] Kernel panic - not syncing: VFS: Unable to mount root fs on unknown-block(0,0)
[ 1.885445] CPU: 0 UID: 0 PID: 1 Comm: swapper/0 Not tainted 6.17.0-rc5 #1 NONE
[ 1.896386] Hardware name: ARM-Versatile Express
[ 1.897282] Call trace:
[ 1.897755] unwind_backtrace from show_stack+0x10/0x14
[ 1.898929] show_stack from dump_stack_lvl+0x54/0x68
[ 1.899415] dump_stack_lvl from vpanic+0xf4/0x304
[ 1.899912] vpanic from panic+0x2c/0x30
[ 1.900555] panic from mount_root_generic+0x1fc/0x2b0
[ 1.900988] mount_root_generic from prepare_namespace+0x1fc/0x258
[ 1.901638] prepare_namespace from kernel_init+0x1c/0x12c
[ 1.902143] kernel_init from ret_from_fork+0x14/0x28
[ 1.902374] Exception stack(0xc8825fb0 to 0xc8825ff8)
[ 1.902934] 5fa0: 00000000 00000000 00000000 00000000
[ 1.903805] 5fc0: 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
[ 1.904253] 5fe0: 00000000 00000000 00000000 00000000 00000013 00000000
[ 1.905222] ---[ end Kernel panic - not syncing: VFS: Unable to mount root fs on unknown-block(0,0) ]---
QEMU: Terminated
```