

```
vitalii@vitalii-GF72-8RD:/media/vitalii/media/study/linux$ make distclean
CLEAN    certs
CLEAN    drivers/firmware/efi/libstub
CLEAN    drivers/scsi
CLEAN    drivers/tty/vt
CLEAN    init
CLEAN    lib
CLEAN    usr
CLEAN    .
CLEAN    vmlinux.symvers modules.builtin modules.builtin.modinfo .vmlinux.export.c
CLEAN    scripts/basic
CLEAN    scripts/dtc
CLEAN    scripts/kconfig
CLEAN    scripts/mod
CLEAN    scripts
CLEAN    include/config include/generated .config .version
```

```
vitalii@vitalii-GF72-8RD:/media/vitalii/media/study/linux$ ARCH=arm CROSS_COMPILE=arm-linux-gnueabi- make defconfig
HOSTCC    scripts/basic/fixdep
HOSTCC    scripts/kconfig/conf.o
HOSTCC    scripts/kconfig/confdata.o
HOSTCC    scripts/kconfig/expr.o
LEX        scripts/kconfig/lexer.lex.c
YACC       scripts/kconfig/parser.tab.[ch]
HOSTCC    scripts/kconfig/lexer.lex.o
HOSTCC    scripts/kconfig/menu.o
HOSTCC    scripts/kconfig/parser.tab.o
HOSTCC    scripts/kconfig/preprocess.o
HOSTCC    scripts/kconfig/symbol.o
HOSTCC    scripts/kconfig/util.o
HOSTLD    scripts/kconfig/conf
*** Default configuration is based on 'multi_v7_defconfig'
#
# configuration written to .config
#
```

```
vitalii@vitalii-GF72-8RD:/media/vitalii/media/study/linux$ ARCH=arm CROSS_COMPILE=arm-linux-gnueabi- make -j8 zImage
UPD       include/generated/uapi/linux/version.h
SYSHDR    arch/arm/include/generated/uapi/asm/unistd-oabi.h
SYSHDR    arch/arm/include/generated/uapi/asm/unistd-eabi.h
UPD       include/generated/compile.h
HOSTCC    scripts/dtc/dtc.o
```

```
CC        arch/arm/boot/compressed/fdt_check_mem_start.o
AS        arch/arm/boot/compressed/lib1funcs.o
AS        arch/arm/boot/compressed/ashldi3.o
AS        arch/arm/boot/compressed/bswapsdi2.o
AS        arch/arm/boot/compressed/piggy.o
LD        arch/arm/boot/compressed/vmlinux
OBJCOPY   arch/arm/boot/zImage
Kernel: arch/arm/boot/zImage is ready
```

```
vitalii@vitalii-GF72-8RD:/media/vitalii/media/study/linux$ ARCH=arm CROSS_COMPILE=arm-linux-gnueabi- make -j 8 dtbs
DTC       arch/arm/boot/dts/actions/owl-s500-cubieboard6.dtb
DTC       arch/arm/boot/dts/airoha/en7523-evb.dtb
DTC       arch/arm/boot/dts/amazon/alpine-db.dtb
DTC       arch/arm/boot/dts/arm/vexpress-v2p-ca5s.dtb
DTC       arch/arm/boot/dts/actions/owl-s500-guitar-bb-rev-b.dtb
```

```
vitalii@vitalii-GF72-8RD:/media/vitalii/media/study/1615$ QEMU_AUDIO_DRV=none qemu-system-arm -M vexpress-e9 -kernel zImage -dtb vexpress-v2p-ca9.dtb -nographic -append "console=ttyAMA0"
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Linux version 6.16.0-rc2 (vitalii@vitalii-GF72-8RD) (arm-linux-gnueabihf-gcc (Ubuntu 13.3.0-6ubuntu2-24.04) 13.3.0, GNU ld (GNU Binutils for Ubuntu) 2.42) #1 SMP Mon Jun 16 15:57:01 +07 2025
[ 0.000000] CPU: ARMv7 Processor [410fc090] revision 0 (ARMv7), cr=10c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT nonaliasing instruction cache
[ 0.000000] OF: fdt: Machine model: V2P-CA9
[ 0.000000] Memory policy: Data cache writeback
[ 0.000000] efi: UEFI not found.
[ 0.000000] cma: Failed to reserve 64 MiB
```

```
[ 4.232714] ext4
[ 4.232719] squashfs
[ 4.232724] vfat
[ 4.232729] msdos
[ 4.232734] ntfs
[ 4.232738] ntfs3
[ 4.232748]
[ 4.232925] Kernel panic - not syncing: VFS: Unable to mount root fs on unknown-block(0,0)
[ 4.239938] CPU: 0 UID: 0 PID: 1 Comm: swapper/0 Not tainted 6.16.0-rc2 #1 NONE
[ 4.240341] Hardware name: ARM-Versatile Express
[ 4.240610] Call trace:
[ 4.241134] unwind_backtrace from show_stack+0x10/0x14
[ 4.242012] show_stack from dump_stack_lvl+0x54/0x68
[ 4.242238] dump_stack_lvl from panic+0x10c/0x370
[ 4.242563] panic from mount_root_generic+0x1f8/0x2a8
[ 4.242842] mount_root_generic from prepare_namespace+0x1fc/0x254
[ 4.243058] prepare_namespace from kernel_init+0x1c/0x12c
[ 4.243291] kernel_init from ret_from_fork+0x14/0x28
[ 4.243523] Exception stack(0xc8825fb0 to 0xc8825ff8)
[ 4.243886] 5fa0: 00000000 00000000 00000000 00000000
[ 4.244176] 5fc0: 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
[ 4.244615] 5fe0: 00000000 00000000 00000000 00000000 00000013 00000000
[ 4.245821] ---[ end Kernel panic - not syncing: VFS: Unable to mount root fs on unknown-block(0,0) ]---
```