

Создаем файл конфигураций на основе файла конфигураций нашей системы:

```
nastya@mixberry-host:~/kernel/linux$ make localmodconfig
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
```

С помощью команды make menuconfig можем изменить параметры ядра.

Собираем ядро и модули:

```
nastya@mixberry-host:~/kernel/linux$ make -j 10 bzImage modules
HOSTCC scripts/basic/fixdep
SYSHDR arch/x86/include/generated/uapi/asm/unistd_32.h
SYSHDR arch/x86/include/generated/uapi/asm/unistd_64.h
SYSHDR arch/x86/include/generated/uapi/asm/unistd_x32.h
SYSTBL arch/x86/include/generated/asm/syscalls_32.h
SYSHDR arch/x86/include/generated/asm/unistd_32_ia32.h
SYSHDR arch/x86/include/generated/asm/unistd_64_x32.h
SYSTBL arch/x86/include/generated/asm/syscalls_64.h
mkdir -p /home/nastya/kernel/linux/tools/objtool && make O=/home/n
HYPERCALLS arch/x86/include/generated/asm/xen-hypercalls.h
HOSTCC /home/nastya/kernel/linux/tools/objtool/fixdep.o
HOSTLD /home/nastya/kernel/linux/tools/objtool/fixdep-in.o
LINK /home/nastya/kernel/linux/tools/objtool/fixdep
HOSTCC arch/x86/tools/relocs_32.o
HOSTCC arch/x86/tools/relocs_64.o
HOSTCC arch/x86/tools/relocs_common.o
HOSTCC scripts/kallsyms
HOSTCC scripts/sorttable
HOSTCC scripts/asn1_compiler
```

Устанавливаем:

```
nastya@mixberry-host:~/kernel/linux$ sudo make modules_install install
[sudo] пароль для nastya:
SYMLINK /lib/modules/6.8.0my+/build
INSTALL /lib/modules/6.8.0my+/modules.order
INSTALL /lib/modules/6.8.0my+/modules.builtin
INSTALL /lib/modules/6.8.0my+/modules.builtin.modinfo
INSTALL /lib/modules/6.8.0my+/kernel/arch/x86/events/rapl.ko
SIGN    /lib/modules/6.8.0my+/kernel/arch/x86/events/rapl.ko
ZSTD    /lib/modules/6.8.0my+/kernel/arch/x86/events/rapl.ko.zst
INSTALL /lib/modules/6.8.0my+/kernel/arch/x86/kernel/msr.ko
SIGN    /lib/modules/6.8.0my+/kernel/arch/x86/kernel/msr.ko
ZSTD    /lib/modules/6.8.0my+/kernel/arch/x86/kernel/msr.ko.zst
INSTALL /lib/modules/6.8.0my+/kernel/arch/x86/crypto/aesni-intel.ko
SIGN    /lib/modules/6.8.0my+/kernel/arch/x86/crypto/aesni-intel.ko
ZSTD    /lib/modules/6.8.0my+/kernel/arch/x86/crypto/aesni-intel.ko.zst
INSTALL /lib/modules/6.8.0my+/kernel/arch/x86/crypto/sha1-ssse3.ko
SIGN    /lib/modules/6.8.0my+/kernel/arch/x86/crypto/sha1-ssse3.ko
ZSTD    /lib/modules/6.8.0my+/kernel/arch/x86/crypto/sha1-ssse3.ko.zst
INSTALL /lib/modules/6.8.0my+/kernel/arch/x86/crypto/sha256-ssse3.ko
SIGN    /lib/modules/6.8.0my+/kernel/arch/x86/crypto/sha256-ssse3.ko
```

Все работает, в т.ч. графика, звук, сеть и usb-устройства:

```
nastya@mixberry-host:~$ uname -r
6.8.0my+
nastya@mixberry-host:~$
```