

# Сборка корневой файловой системы на основе busybox

1. Скачаем busybox

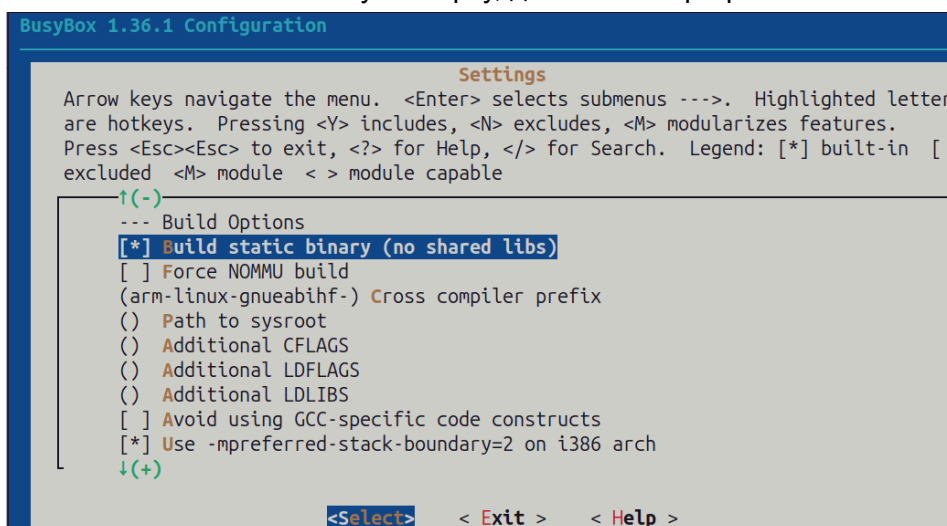
2. Создаем дефолтный конфиг

```
ARCH=arm make defconfig
```

3. Заходим в menuconfig

```
ARCH=arm make menuconfig
```

4. Указываем статичную сборку, добавляем префикс



5. Собираем

```
ARCH=arm make -j 16
```

6. Устанавливаем

```
ARCH=arm make install
```

7. Удалим Linuxrc из \_install

8. Создадим архив с новой файловой системой

```
find . | cpio -o -H newc | gzip > initramfs.cpio.gz
```

9. Запускаем в qemu

```
QEMU_AUDIO_DRV=none qemu-system-arm -M vexpress-a9 -kernel zImage  
-dtb vexpress-v2p-ca9.dtb -initrd initramfs.cpio.gz -append  
"console=ttyAMA0 rdinit=/bin/ash" -nographic
```

```

[ 2.816585] Run /bin/ash as init process
/bin/ash: can't access tty; job control turned off
~ # ls -la
total 4
drwxrwxr-x 7 1000 1000 180 Sep 24 09:40 .
drwxrwxr-x 7 1000 1000 180 Sep 24 09:40 ..
-rw----- 1 0 0 7 Sep 24 09:40 .ash_history
drwxrwxr-x 2 1000 1000 1900 Sep 24 09:29 bin
drwxr-xr-x 2 0 0 60 Sep 18 09:43 dev
-rw-rw-r-- 1 1000 1000 0 Sep 24 09:36 initramfs.cpio.gz
drwx----- 2 0 0 40 Sep 18 09:43 root
drwxrwxr-x 2 1000 1000 1460 Sep 24 09:29/sbin
drwxrwxr-x 4 1000 1000 80 Sep 24 09:29/usr

```

```

~ # ps
PID  USER  TIME  COMMAND
ps: can't open '/proc': No such file or directory
~ # mkdir proc
~ # mkdir sys
~ # mount -t proc proc proc
~ # ls /proc
1      30      53      driver      pagetypeinfo
10     31      56      execdomains partitions
11     32      57      fb           scsi
12     33      6       filesystems self
13     34      62      fs           slabinfo
14     35      63      interrupts  softirqs
15     36      66      iomem        stat
16     37      67      ioports      swaps
17     39      7       irq          sys
18     4       78      kallsyms     sysrq-trigger
19     40      8       key-users    sysvipc
2      41      9       keys         thread-self
20     42      buddyinfo  kmsg         timer_list
21     43      bus        kpagecount   tty
22     44      cgroups    kpageflags   uptime
23     45      cmdline    loadavg       version
24     46      consoles   locks         vmallocinfo
25     47      cpu         meminfo       vmstat
26     48      cpuinfo     misc          zoneinfo
27     49      crypto      modules
28     5       device-tree mounts
29     50      devices     mtd
3      52      diskstats   net
~ #

```