CONFIG_DEVTMPFS=y

CONFIG DEVTMPFS MOUNT=y

```
1.
      config DEVTMPFS
 2.
              bool "Maintain a devtmpfs filesystem to mount at /dev"
 3.
              help
 4.
                This creates a tmpfs/ramfs filesystem instance early at bootup.
                In this filesystem, the kernel driver core maintains device
 6.
                nodes with their default names and permissions for all
 7.
                registered devices with an assigned major/minor number.
 8.
                Userspace can modify the filesystem content as needed, add
 9.
                symlinks, and apply needed permissions.
10.
                It provides a fully functional /dev directory, where usually
11.
                udev runs on top, managing permissions and adding meaningful
12.
                symlinks.
13.
                In very limited environments, it may provide a sufficient
14.
                functional /dev without any further help. It also allows simple
15.
                rescue systems, and reliably handles dynamic major/minor numbers.
16.
17.
                Notice: if CONFIG_TMPFS isn't enabled, the simpler ramfs
                file system will be used instead.
18.
```

```
1. obj-$(CONFIG_DEVTMPFS) += devtmpfs.o
```

```
config DEVTMPFS MOUNT
1.
2.
              bool "Automount devtmpfs at /dev, after the kernel mounted the rootfs"
3.
              depends on DEVTMPFS
4.
              help
5.
                This will instruct the kernel to automatically mount the
6.
                devtmpfs filesystem at /dev, directly after the kernel has
7.
                mounted the root filesystem. The behavior can be overridden
8.
                with the commandline parameter: devtmpfs.mount=0 1.
9.
                This option does not affect initramfs based booting, here
10.
                the devtmpfs filesystem always needs to be mounted manually
11.
                after the rootfs is mounted.
12.
                With this option enabled, it allows to bring up a system in
13.
                rescue mode with init=/bin/sh, even when the /dev directory
14.
                on the rootfs is completely empty.
```

在bootcmd上加入

devtmpfs.mount=0就可以disable /dev是tmpfs

in drivers/base/devtmpfs.c

```
#if defined CONFIG_DEVTMPFS_MOUNT
static int mount_dev = 1;
#else
static int mount_dev;
#endif
```

这里的mntdir就是在该目录下mount tmpfs

devtmpfs.mount=X(非零)就可以使得/dev为tmpfs

in init/do_mounts.c

```
1.
      void __init prepare_namespace(void)
 2.
 3.
              int is_floppy;
 4.
 5.
              if (root_delay) {
 6.
                       printk(KERN INFO "Waiting %d sec before mounting root device...\n
                              root_delay);
 8.
                       ssleep(root_delay);
9.
               }
10.
11.
12.
               * wait for the known devices to complete their probing
13.
14.
               * Note: this is a potential source of long boot delays.
15.
               * For example, it is not atypical to wait 5 seconds here
16.
                * for the touchpad of a laptop to initialize.
17.
               */
18.
              wait_for_device_probe();
19.
20.
              md_run_setup();
21.
22.
              if (saved_root_name[0]) {
23.
                       root_device_name = saved_root_name;
24.
                       if (!strncmp(root_device_name, "mtd", 3) ||
25.
                           !strncmp(root_device_name, "ubi", 3)) {
26.
                               mount_block_root(root_device_name, root_mountflags);
27.
                               goto out;
28.
                       }
29.
                       ROOT_DEV = name_to_dev_t(root_device_name);
30.
                       if (strncmp(root_device_name, "/dev/", 5) == 0)
31.
                               root_device_name += 5;
32.
              }
33.
34.
              if (initrd_load())
35.
                       goto out;
36.
37.
               /* wait for any asynchronous scanning to complete */
38.
              if ((ROOT_DEV == 0) && root_wait) {
39.
                       printk(KERN_INFO "Waiting for root device %s...\n",
40.
                               saved_root_name);
41.
                       while (driver_probe_done() != 0 ||
42.
                               (ROOT_DEV = name_to_dev_t(saved_root_name)) == 0)
43.
                               msleep(100);
44.
                       async_synchronize_full();
45.
               }
46.
47.
              is_floppy = MAJOR(ROOT_DEV) == FLOPPY_MAJOR;
48.
49.
              if (is floppy && rd doload && rd load disk(0))
50.
                       ROOT DEV = Root RAMO;
51.
52.
              mount_root();
```