

in .config

```
1. CONFIG_BLK_DEV_INITRD=y
2. CONFIG_INITRAMFS_SOURCE=""
3. CONFIG_RD_GZIP=y
```

是否可以把CONFIG\_BLK\_DEV\_INITRD disable呢？

```
1. in linux/init/Makefile
2.
3. ifneq ($(CONFIG_BLK_DEV_INITRD),y)
4. obj-y += nointramfs.o
5. else
6. obj-$(CONFIG_BLK_DEV_INITRD) += initramfs.o
7. endif
```

即在CONFIG\_BLK\_DEV\_INITRD disable的情况下

kernel将编译init/nointramfs.c而非init/initramfs.c

```

1.  in linux/init/noinitramfs.c
2.
3.  /*
4.   * Create a simple rootfs that is similar to the default initramfs
5.   */
6.  static int __init default_rootfs(void)
7.  {
8.      int err;
9.
10.     err = sys_mkdir((const char __user __force *) "/dev", 0755);
11.     if (err < 0)
12.         goto out;
13.
14.     err = sys_mknod((const char __user __force *) "/dev/console",
15.                     S_IFCHR | S_IRUSR | S_IWUSR,
16.                     new_encode_dev(MKDEV(5, 1)));
17.     if (err < 0)
18.         goto out;
19.
20.     err = sys_mkdir((const char __user __force *) "/root", 0700);
21.     if (err < 0)
22.         goto out;
23.
24.     return 0;
25.
26. out:
27.     printk(KERN_WARNING "Failed to create a rootfs\n");
28.     return err;
29. }
30. rootfs_initcall(default_rootfs);

```

也就是说kernel在启动的最后依赖于

**/dev**

**/dev/console**

**/root**

的问题通过如此直接了当的方式解决。

in build-bundle/meta-granite/recipes-kernel/linux/files/oegmatite.cfg

CONFIG\_BLK\_DEV\_INITRD=y

==>

#CONFIG\_BLK\_DEV\_INITRD=y

从新build kernel

\$ bitbake linux-granite-upstream -C patch -f

walterzh@walterzh-Precision-T1650:~/gerrit/tmp/work/granite2-poky-linux-gnueabi/linux-granite-upstream/3.18.7+gitAUTOINC+3c5efe25e7-r0/linux-granite2-standard-build/init\$ ls -l

total 1540

-rw-r--r-- 1 walterzh walterzh 399 12月 17 17:27 built-in.mod.c

-rw-r--r-- 1 walterzh walterzh 571309 1月 2 15:51 built-in.o

-rw-r--r-- 1 walterzh walterzh 15008 1月 2 15:50 calibrate.o

-rw-r--r-- 1 walterzh walterzh 97324 12月 29 15:44 do\_mounts\_initrd.o

-rw-r--r-- 1 walterzh walterzh 194404 1月 2 15:50 do\_mounts.o

-rw-r--r-- 1 walterzh walterzh 109708 12月 29 15:44 initramfs.o

-rw-r--r-- 1 walterzh walterzh 102276 1月 2 15:50 init\_task.o

-rw-r--r-- 1 walterzh walterzh 156516 1月 2 15:50 main.o

-rw-rw-r-- 1 walterzh walterzh 0 1月 2 15:52 modules.builtin

-rw-rw-r-- 1 walterzh walterzh 0 1月 2 15:52 modules.order

-rw-r--r-- 1 walterzh walterzh 399 12月 17 17:27 mounts.mod.c

-rw-r--r-- 1 walterzh walterzh 194434 1月 2 15:50 mounts.o

-rw-r--r-- 1 walterzh walterzh 77584 1月 2 15:50 **noinitramfs.o**

-rw-r--r-- 1 walterzh walterzh 35476 1月 2 15:51 version.o