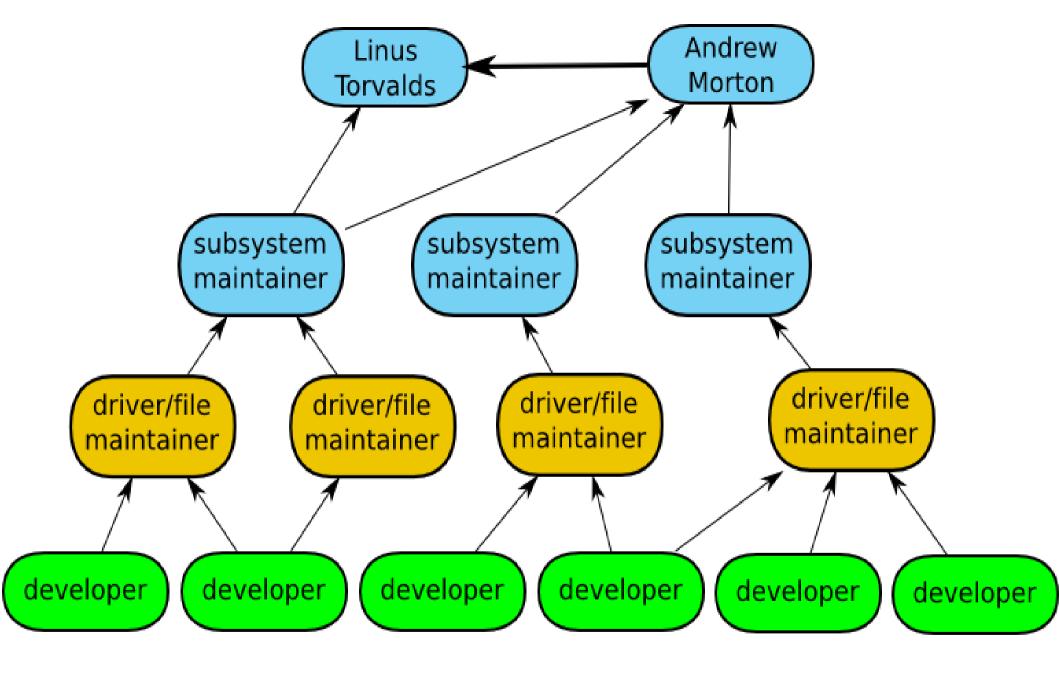
The Linux Kernel Community

How it works, why it matters, and how to get involved

Greg Kroah-Hartman SuSE Labs / Novell



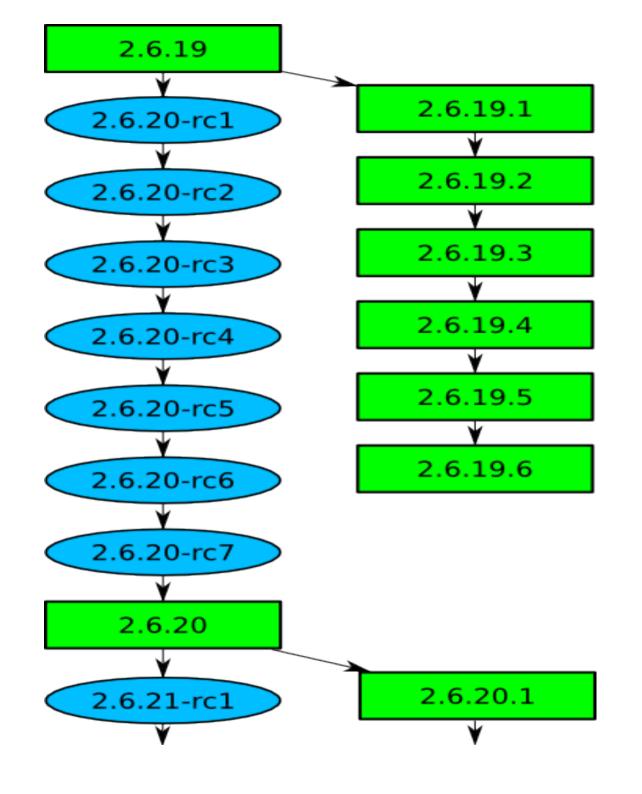
Development or Stable tree?



Development or Stable tree?

Everything is "stable"





New release every 2½ months

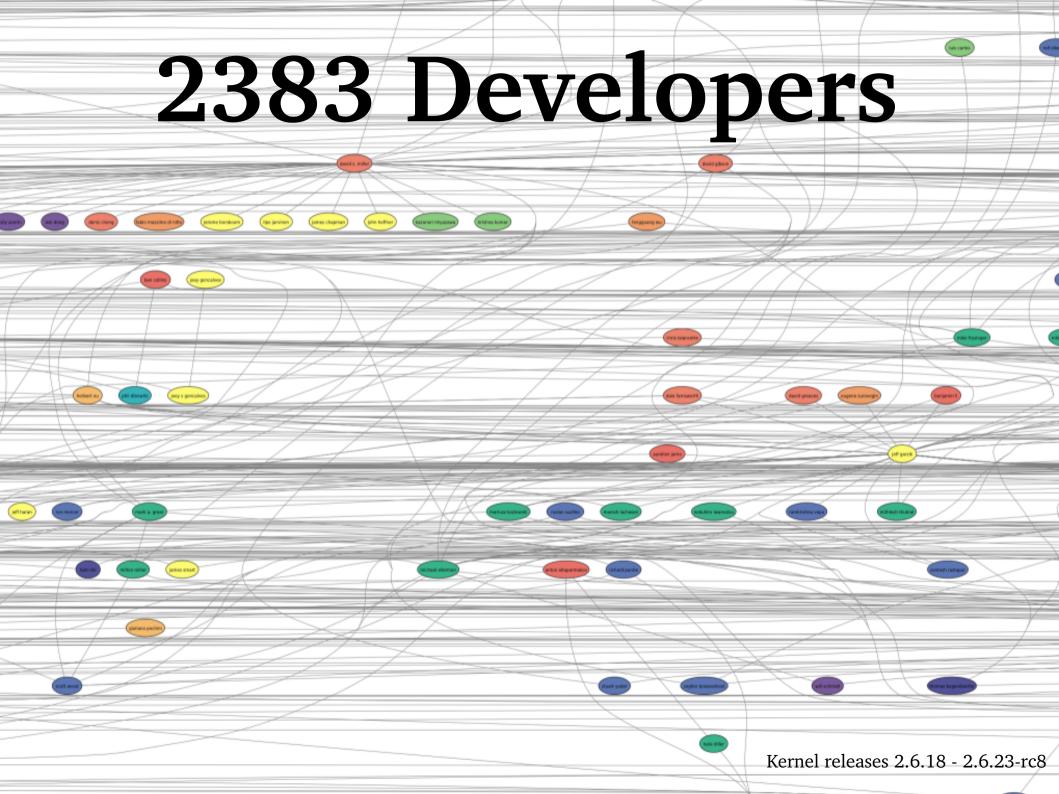
```
Return -EEXIST if there is already a sysfs element with the same name for
   the same parent.
       LOCKING:
       Biliges per hour
       RETURNS:
       Pointer to sysfs_dirent if found, NULL if not.
-int sysfs_dirent_exist(struct sysfs_dirent *parent_sd,
                        const unsigned char *new)
+struct sysfs_dirent *sysfs_find_dirent(struct sysfs_dirent *parent_sd,
                                     const unsigned char *name)
       struct sysfs_dirent * sd;
       struct sysfs dirent *sd;
       for (sd = parent_sd->s_children; sd; sd = sd->s_sibling) {
               if (sysfs_type(sd)) {
                       if (strcmp(sd->s_name, new))
                              continue;
                       else
                              return -EEXIST;
       for (sd = parent_sd->s_children; sd; sd = sd->s_sibling)
               if (sysfs_type(sd) && !strcmp(sd->s_name, name))
                       return sd;
       return NULL;
       return 0;
                                                            2.6.18 to 2.6.22
```

```
if (error)
                            goto Error;
/* first, register with generic laver */
                        set e(&dev->kobj, % , dev>bus_id);
hor)

ror:

| Construction | Co
/* notify platform of device entry */
if (platform notify)
                            platform notify(dev);
/* notify clients of device entry (new way) */
if (dev->bus)
                            blocking notifier call chain(&dev->bus->bus notifier,
                                                                                                                                    BUS NOTIFY ADD DEVICE, dev);
error = device create file(dev, &uevent attr);
if (error)
                            goto attrError;
if (MAJOR(dev->devt)) {
                            error = device create file(dev, &devt attr);
                            if (error)
                                                         goto ueventattrError;
if (dev->class) {
                            sysfs create link(&dev->kobj, &dev->class->subsys.kobj,
                                                                                             "subsystem"):
                            /* If this is not a "fake" compatible device, then create the
                               * symlink from the class to the device. */
                                                                                                                                                                                                              as of the 2.6.22 release
                            if (dev->kobj.parent != &dev->class->subsys.kobj)
```





Top developers by quantity Al Viro 778 David S. Miller 637 Ralf Baechle 575 **Andrew Morton** 556 Tejun Heo 537 Adrian Bunk 501 **Patrick McHardy** 421 Stephen Hemminger 404 Andi Kleen 361 Ingo Molnar 396

Top Signed-off-by: Andrew Morton 9130 Linus Torvalds 8291 David S. Miller 3526 Jeff Garzik 2328 Greg Kroah-Hartman 2087 Paul Mackerras 1515 1433 Mauro Carvalho Chehab Russell King 1175 James Bottomley 1139 Andi Kleen 1125

1.

2.

3. Red Hat

4. IBM

5. Novell

6. Linux Foundation

7. Intel

8. SGI

9. MIPS

10. Consultants

12.6%

8.5%

7.2%

6.8%

4.1%

1.6%

1.5%

1.5%

1.Unknown Individuals	18.1%
2. "Amateurs"	13.3%
3. Red Hat	12.6%
4. IBM	8.5%
5. Novell	7.2%
6. Linux Foundation	6.8%
7. Intel	4.1%
8. SGI	1.6%
9. MIPS	1.5%
10. Consultants	1.5%



... 15. MontaVista

1.1%

• • •

139. Motorola

0.0%

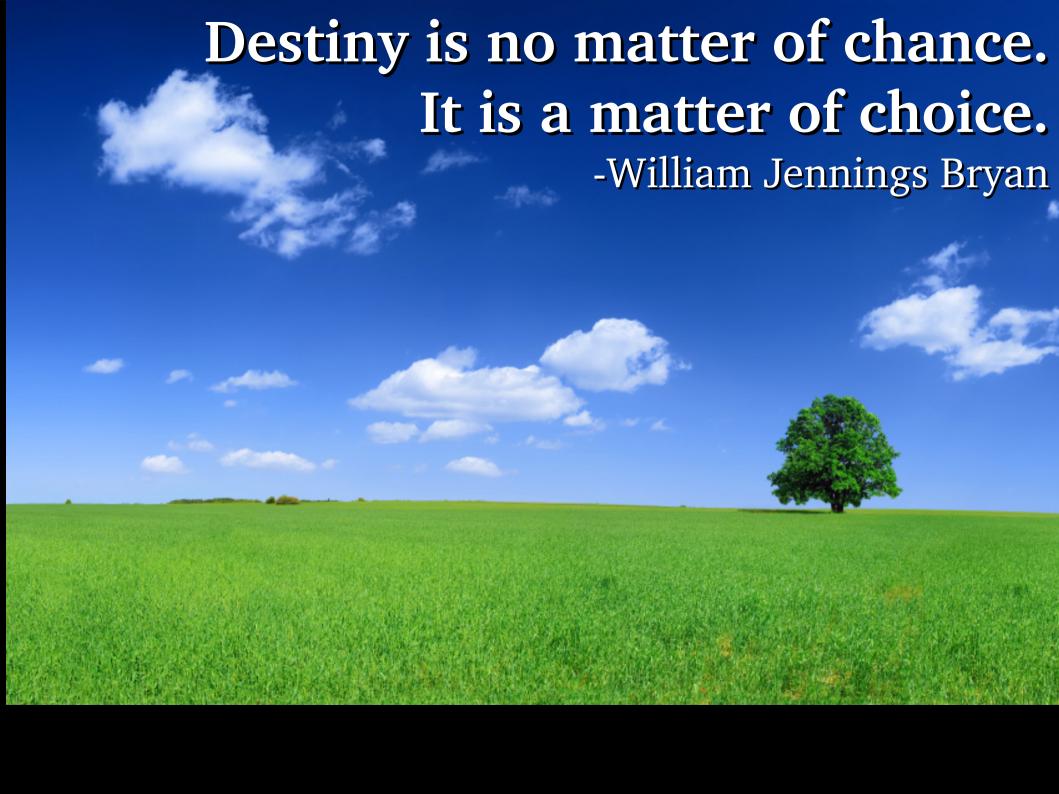
Kernel

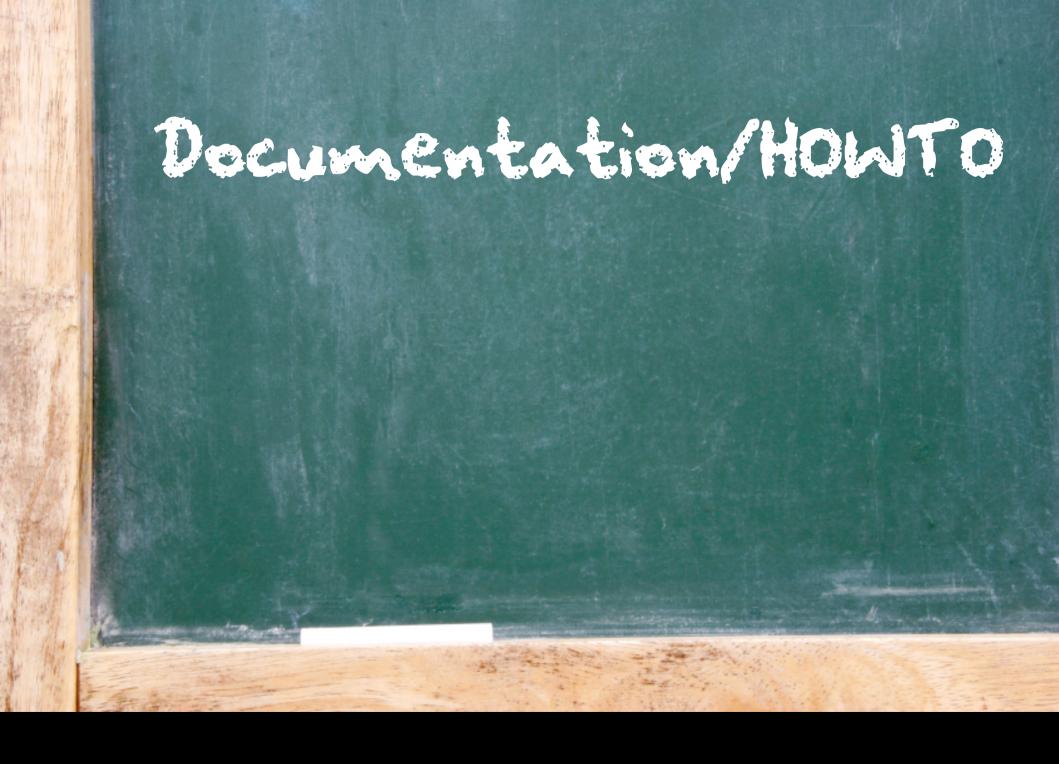
Kernel releases 2.6.18 - 2.6.23-rc8

Linux will comprise over 60% of our mobile portfolio in the near future.



- Christy Wyatt





Kernel Newbies





The Linux Driver Project is focused on creating and maintaining OpenSource Linux kernel drivers for all types of devices.

We are a group of Linux kernel A velopera (over 8) strong and projection anage in (over 10) mathleties of an amaintain Linux kernel drivers. We work with the manufacturers of the specific device to specify, develop, submit to the main kernel, and maintain the kernel drivers. We are willing and able to sign NDAs with companies if they wish to keep their specifications closed, as long as we are able to create a proper GPLv2 Linux kernel driver as an end result.

Joining

If you are a company that wishes to have a Linux kernel driver written and maintained by this group, please go to the

Frequently Asked Questions

We have quite a long list of FrequentlyAskedQuestions that you might wish to peruse before asking them to the developers or on the MailingLists

<u> MailingLists</u>

We currently have two main mailing lists, one for <u>ProjectManagers</u>, and one for <u>Developers</u>. Please see the <u>MailingLists</u> page for more details.

History

This project was started with an announcement to the Linux Kernel mailing list by <u>GregKH</u>, and has enabled many different manufacturers to achieve full Linux support for their devices.

Questions?

If you still have questions, or do not see the answer for what you are looking for, please feel free to contact GregKH.

