The Linux Kernel

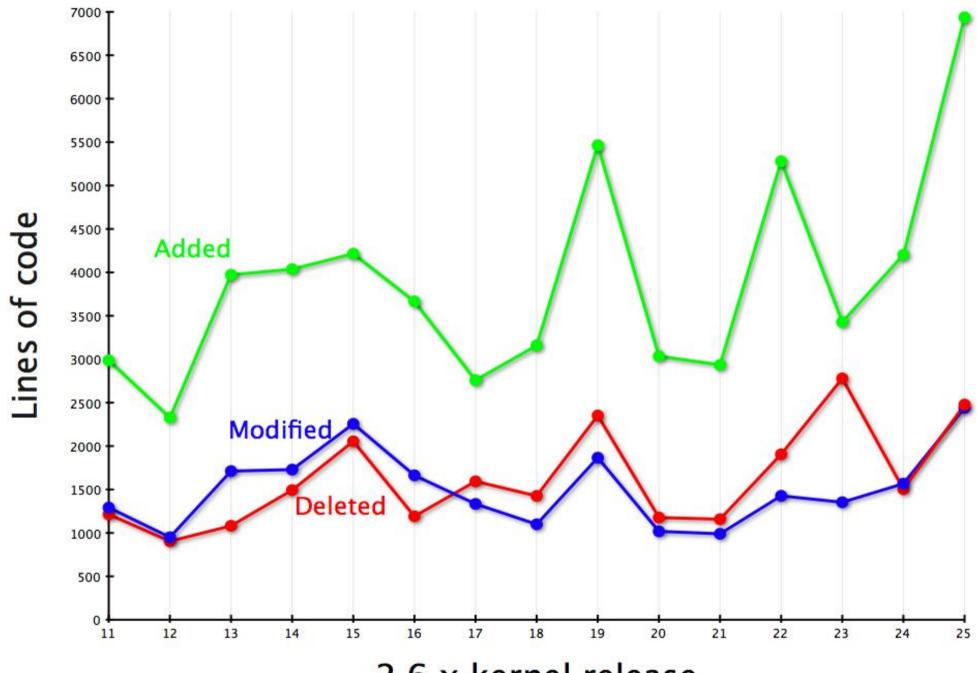
Who is developing it, how they are doing it, and why you should care

Greg Kroah-Hartman SuSE Labs / Novell

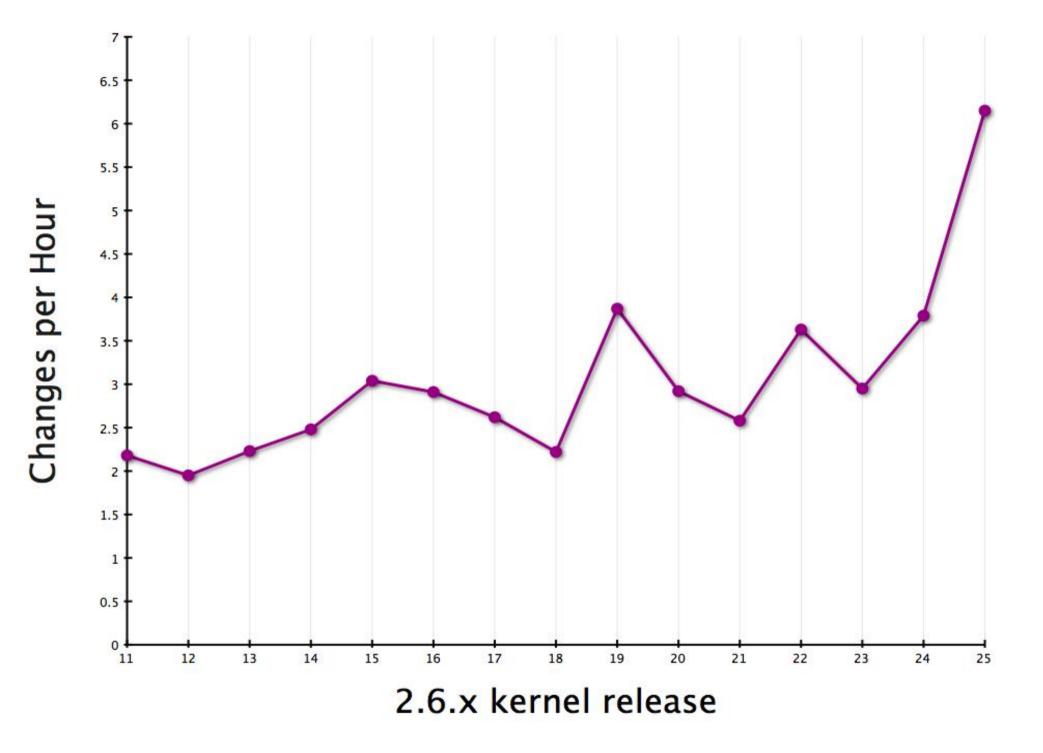
4,300 lines added 1,800 lines removed 1,500 lines modified

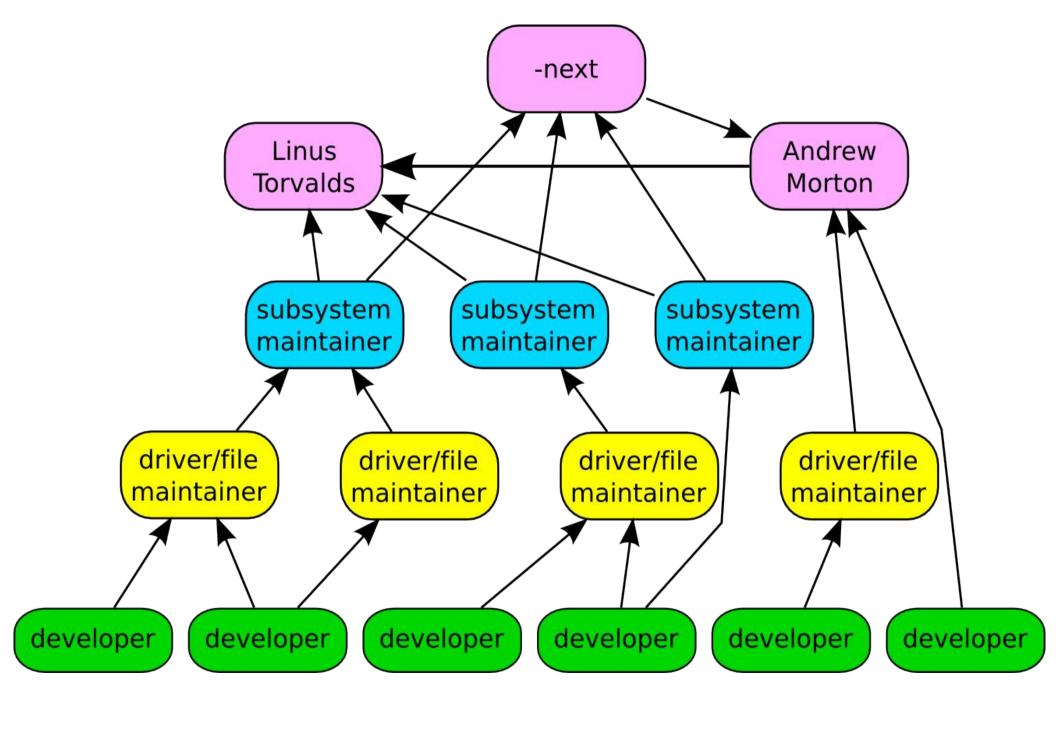
per day 2007 - 2008

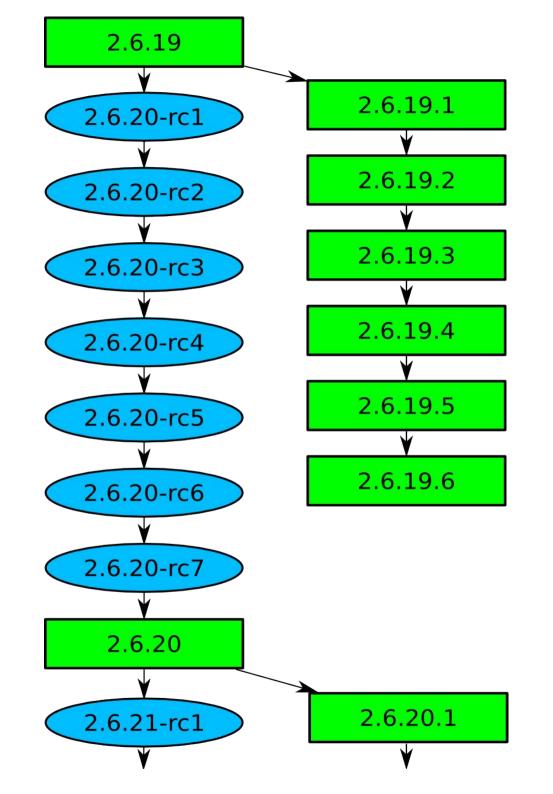
3.69 changes per hour



2.6.x kernel release

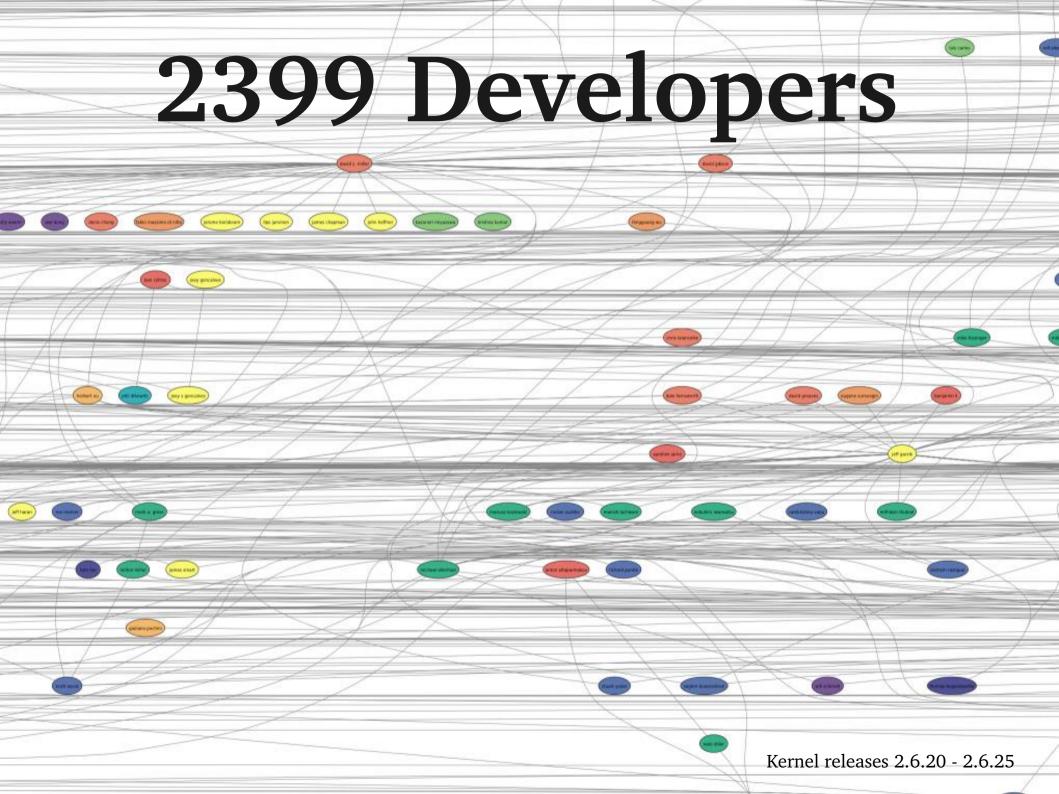






New release every 23/4 months

```
if (error)
       goto Error;
/* first, register with generic laver
          kobter
/* 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 2.6.25 release
       if (dev->kobj.parent != &dev->class->subsys.kobj)
```



Topidevelopers by quantity Adrian Bunk 754 Al Viro Thomas Gleixner 656 David S. Miller 655 **Bart Zolnierkiewicz** 637 Paul Mundt 610 Ralf Baechle 604 Ingo Molnar 596 Patrick McHardy Tejun Heo 530

Top Signed-off-by: **Andrew Morton** 9086 Linus Torvalds 8960 David S. Miller 4926 Jeff Garzik 2960 Ingo Molnar 2489 Greg Kroah-Hartman 2098 Thomas Gleixner 1098 Mauro Carvalho Chehab 1822 Paul Mackerras 1675 John Linville 1461

Who is funding this work?

1	
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2. Red Hat	11.6%
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3. IBM	7.5%
J. IDIVI	/.5/0

4 NT 11	
4. Novell	6.6%
T. INUVCII	0.070

5.

- 7. Oracle 2.2%
- 8. Consultants 2.2%
- 9. Academia 1.5%
- 10. Renesas Technology 1.5%

Who is funding this work?

1. "Amateurs"	18.5%
2. Red Hat	11.6%
3. IBM	7.5%
4. Novell	6.6%
5. Unknown individuals	5.5%
6. Intel	4.1%
7. Oracle	2.2%
8. Consultants	2.2%
9. Academia	1.5%
10. Renesas Technology	1.5%

Who is funding this work?





40. Google

Kernel releases 2.6.18 - 2.6.23-rc8

27 Google employees May 30 Zoltan Boszo 1 (8.6K) MCP55 NCAproblem?
CONTROL DUITE TO The IKernet
May 30 Zoltan Boszo 1 (8.6K) MCP55 NCAproblem?
The Control of the Ikernet Control of the Ikernet Comparation between unargonal control of the Ikernet Comparation of May 30 Bill Nottingh (2.4K) 21 (A) Property Comparison of unsigned May 30 Bill Nottingh (1.19K) 21 (H) (H) (F) (Comparison of unsigned May 30 Bill Nottingham (3.4K) TRATCH alsa; fix comparison of unsigned < 0 [resend] [AGPGART] intel_agp: cleanup intel private data
[git_null] drm_fixes_for_2.6.22-rc3 Kernel releases 2.6.20 - 2.6.25 May 29 Matt Helsley [RFC][PATCH] Replacing the /proc/<pid|self>/exe symlink code







New stuff in 2.6.26

Korina driver superH MX-G SH-MobileR2 CPU support Solution Engine SH7721 **ARM YL9200** Kwikbyte KB9260 Olimex SAM9-L9260 emObit ECB AT91 Digi ns921x processor Nias SMX crypto AMCC PPC460EX Emerson KSI8560 WindRiver SBC8641D Logitech Rumblepad 2 Renesas SH7760 I2c SuperH Mobile I2C PCI Express ASPM security= boot option NAT for SCTP, SCCP and UDP-lite network window scaling w/ syncookies Xen keyboard network namespace work mesh networking for mac80211 SELinux permisive types realtime group scheduler work SunOS binary support removed read-only bind mounts kbdb PAT for x86 inode getsecid() ipc getsecid() ieee80211 MAC removed

generic semaphores

ata port operations inheritance

ns to ktime() struct class device removed SEQ SKIP allowed from show() Wolfson WM9713 codecs TI DAVINCI AC97 Emagic Audiowerk 2 x86 PC speakers Asus AV100 (Xonar DX) Micron MT9M001 Micron MT9V022 PXA27x Quick Capture Kworld ATSC 120 tuners cx23417 MPEG encoders Integrant ITD1000 tuners Philips TDA10048HN demodulators Philips SAA7171/3/4 a/v decoders Auvitek AU8522 demodulators Samsung S5H1411-based tuners Xen framebuffer Xen mouse Wolfson Microelectronics touchscreens wireless Xbox 360 controller Zhen Hua PPM-4CH transmitters

Wolfson Microelectronics touchscree wireless Xbox 360 controller Zhen Hua PPM-4CH transmitters SPCP8x5 USB to serial NCR 53c9x SCSI controller Freescale 8610 and 5121 display Intel 965G/965GM TI OMAP sound controller Eee PC function keys Intel IXP4xx Ethernet basic braille screen reader support OLPC XO architecture support

virtual files in /proc/pid/mountinfo /proc/vmallocinfo NUMA for SPARC Niagra Xen baloon driver /dev/mem support removed KVM for s390 KVM for PowerPC 440 KVM for ia64 perprocess secure bits getrusage() RUSAGE THREAD partions with NBD audit open file tests /svs/class/bdi shared writable mappings for FUSE ioremap() always uncached on x86 /sys/kernel/slab/NAME/order WARN ON taints kernel get info() for /proc removed proc create data() object debugging infrastructure Solarflare Comm Solarstorm SFC4000 Hauppauge HVR-1600 TV tuner card WTF are you doing reading this ISP 1760 USB host controller Cypress c67x00 OTG controller Intel PXA 27x USB controller DEFINE KLIST() KLIST INIT() klist add after() klist add before() div u64 and friends sysfs streq

MODULE FORCE LOAD

