

The background features a dark blue geometric shape on the left and a lighter blue shape on the right, separated by a diagonal line.

OLFLive

MENTORSHIP SERIES



Best Practices to Getting Your Patches Accepted

Greg Kroah-Hartman
gregkh@linuxfoundation.org

I don't want your code

or

Linux Kernel Maintainers,
why are they so grumpy?

Greg Kroah-Hartman
gregkh@linuxfoundation.org

git.sr.ht/~gregkh/presentation-linux-maintainer

69,970 files
29,460,000 lines

4,659 developers
450+ companies

Kernel releases 5.4.0 – 5.9.0
September 2019 – October 2020

8,300 lines added

2,400 lines removed

2,100 lines modified

8,300 lines added

2,400 lines removed

2,100 lines modified

Every day

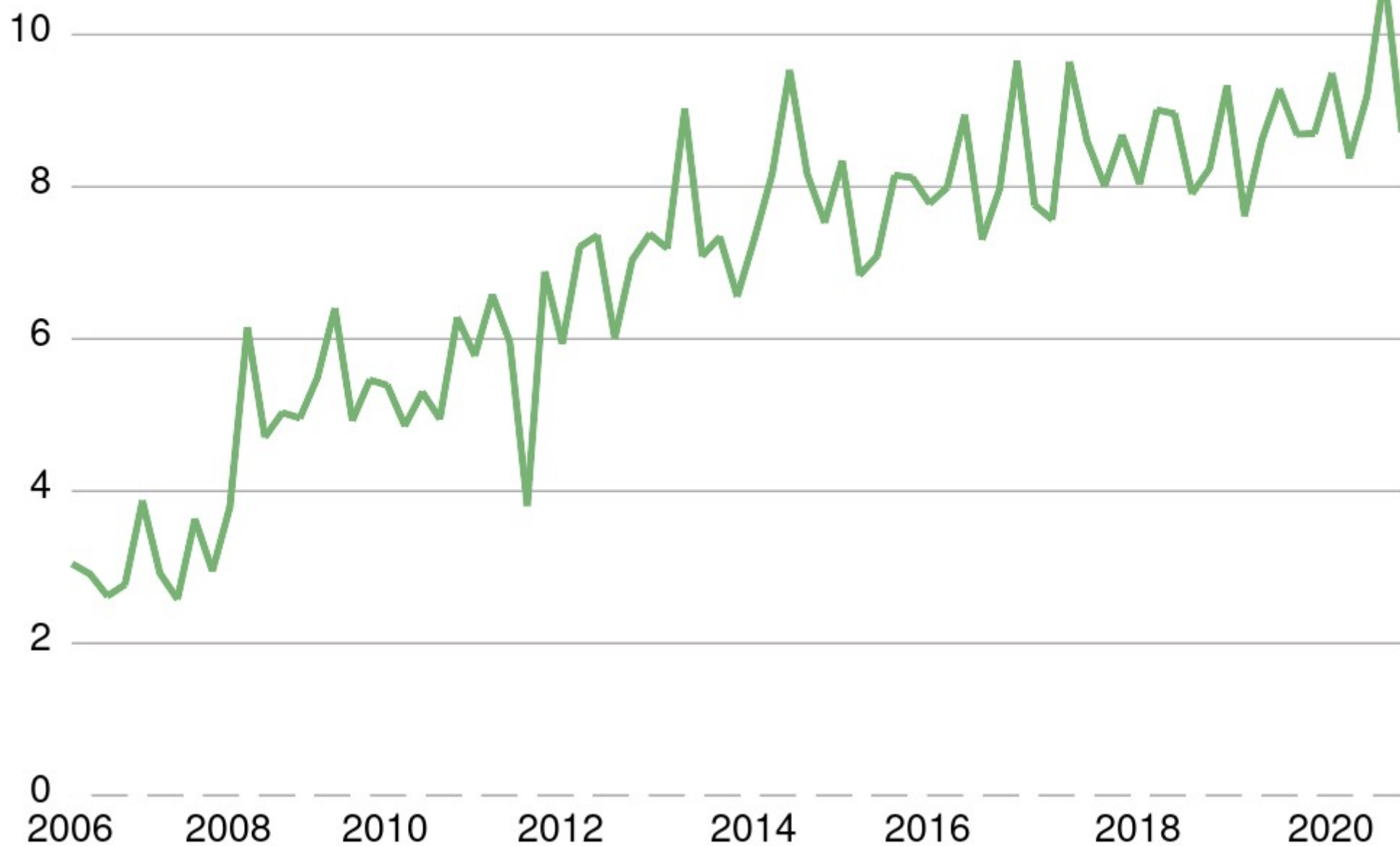
9.2 changes per hour

Kernel releases 5.4.0 – 5.9.0
September 2019 – October 2020

10.8 changes per hour

5.8 release

Patches merged per hour



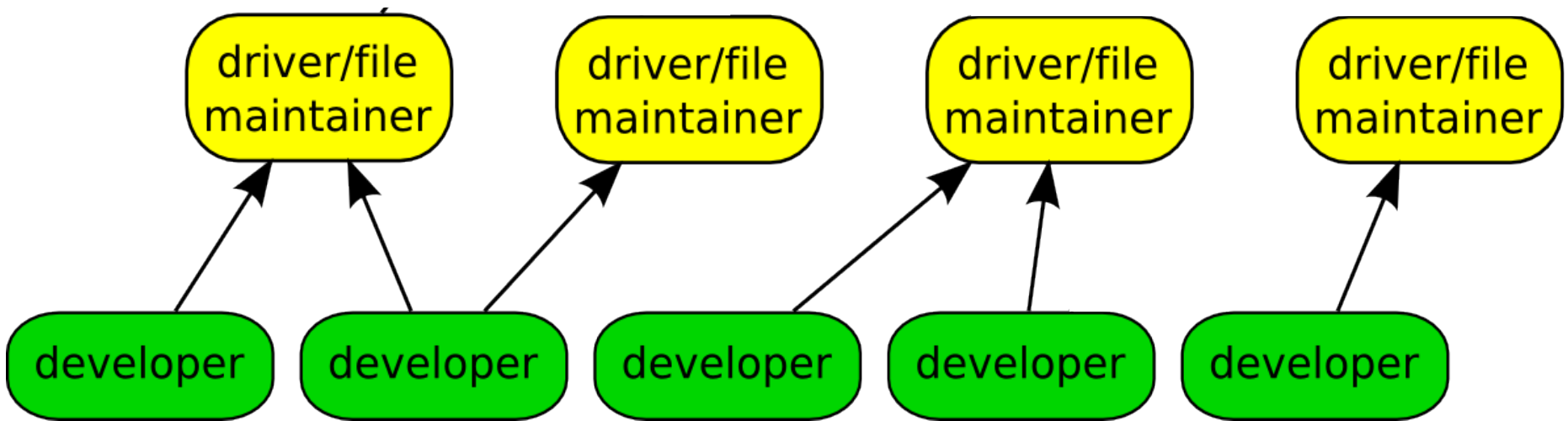
developer

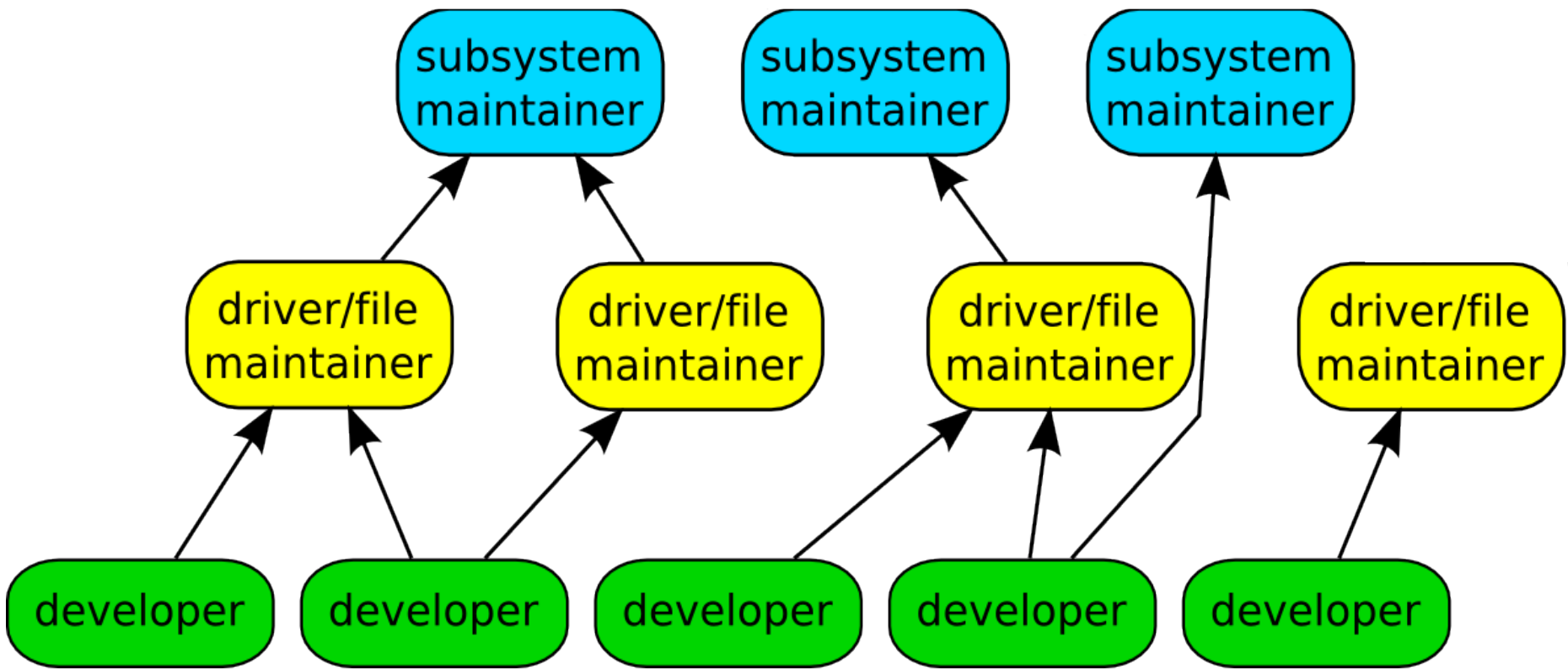
developer

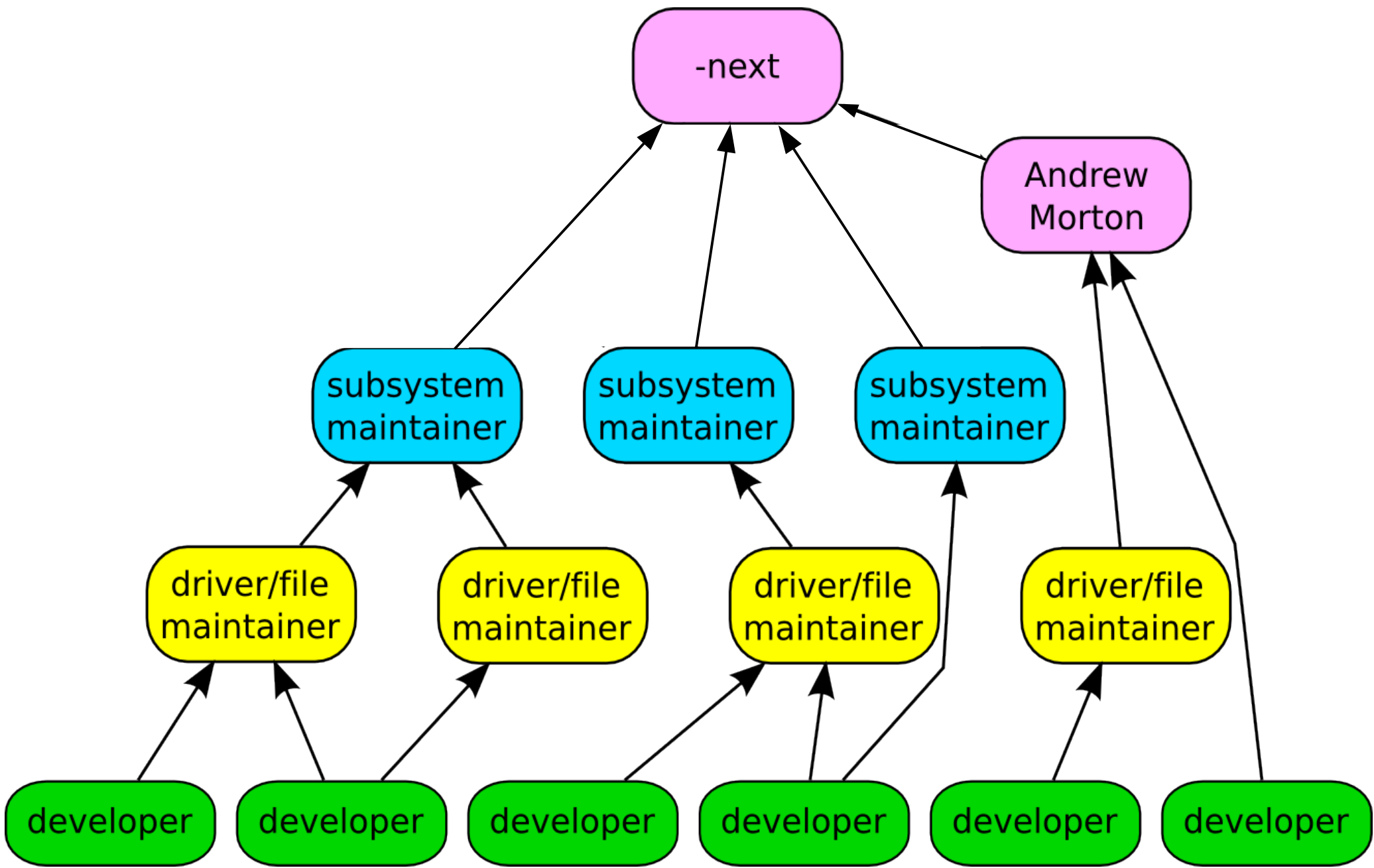
developer

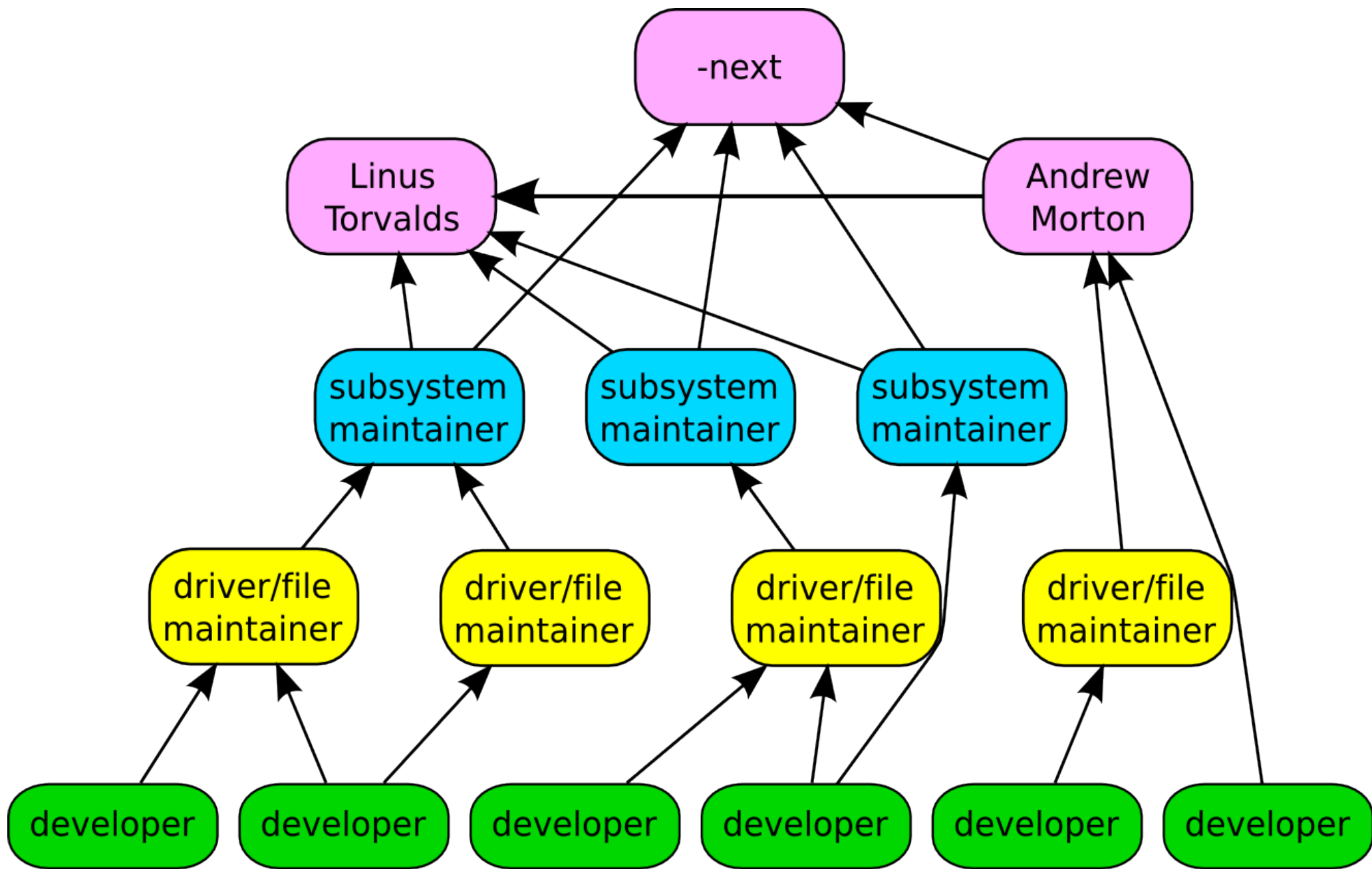
developer

developer









q:Quit d:Del u:Undel s:Save m:Mail r:Reply g:Group ?:Help			
1	N	May 30 Jay Cliburn (1.5K) Re: Problem with atl and msi in kernel 2.6.22-rc3	
2	N	May 30 Robert P. J. Day (1.4K) Shouldn't make_soc_head try to force read-only semantics?	
3	N	May 30 Alexey Kopylov (2.9K) [PATCH] Merge of the 2.6.22-rc3	
4	N	May 30 Thomas Klein (1.3K) [PATCH 2.6.22-rc3] ehea: fixed multi queue RX bug	
5	N	May 30 Geller Sandor (1.2K) HPT374 IDE problem with 2.6.21.* kernels	
6	N	May 30 Hagen Paul Pfei (3.5K) [PATCH] INTERNODE_CACHE_SHIFT redefinition for hot spot structure	
7	N	May 30 Zoltan Boszormenyi (8.5K) [PATCH] Kernel 2.6.21.3 does not work with 8Gb of RAM on Intel 965WH	1377
8	N	May 30 Juergen R. Reuter (1.8K) [PATCH] drivers/net: fix comparison of unsigned < 0	
9	Ns	May 30 Martin Steigerwald (2.6K) Re: [ck] Mainline plans	
10	N	May 30 Christoph Hellwig (2.4K) [PATCH] drivers/block/ub.c: use list_for_each_entry()	1195
11	N	May 30 Matthias Kasper (2.4K) [PATCH] drivers/net: fix comparison of unsigned < 0	
12	N	May 30 Rankle_ (3.1K) [PATCH] merge dst_discard in & out into one, removed a duplicate	
13	N	May 30 Zoltan Boszormenyi (8.5K) MCP55 NIO problem	
14	N	May 30 Bill Nottingham (4.0K) [PATCH] drivers/net: fix comparison of unsigned < 0	832
15	N	May 30 Seokmann Ju (1.4K) [PATCH] drivers/net: fix comparison of unsigned < 0	
16	N	May 30 Bill Nottingham (4.5K) [PATCH] drivers/infiniband: fix comparsion between unsigned and n	
17	N	May 30 Bill Nottingham (5.1K) [PATCH] drivers/video: Fix comparisons between negative and unsig	740
18	N	May 30 Bill Nottingham (5.4K) [PATCH] drivers/net: fix comparisons of unsigned < 0	
19	N	May 30 Bill Nottingham (5.8K) [PATCH] net: fix comparisons of unsigned < 0	
20	N	May 30 Bill Nottingham (1.9K) [PATCH] net: fix comparisons against unsigned < 0	739
21	N	May 30 Bill Nottingham (3.4K) [PATCH] net: fix comparison of unsigned < 0	
22	N	May 30 Takashi Iwai (3.6K) [PATCH] drivers/net: fix comparison of unsigned < 0	
23	N	May 30 Jiri Slaby (1.4K) [PATCH] drivers/net: fix comparison of unsigned < 0	
24	N	May 30 Stefan Richter (1.7K) [PATCH 2.6.21.3] ieee1394: eth1394: bring back apparent device	692
25	N	May 30 Oleg Verych (1.1K) Re: diffies wraparound is not treated in the schedstats	
26	N	May 29 Robert Hancock (4.0K) [PATCH -mm] 2/2: PCI: disable decode of IO/memory during BAR size	
27	N	May 29 Robert Hancock (4.5K) [PATCH -mm] 1/2: MMCONFIG: validate against CPU motherboard reso	671
28	N	May 29 Linda Cornelius (3.2K) [PATCH] drivers/net: fix comparison of unsigned < 0	
29	N	May 30 Matt Keenan (1.6K) [PATCH] drivers/net: fix comparison of unsigned < 0	
30	N	May 29 Robert Hancock (1.9K) [PATCH -mm] 0/2: PCI: MMCONFIG-related updates	590
31	N	May 29 Yinghai Lu (1.4K) [PATCH 5/5] serial: set DTR in uart for kernel serial console	
32	N	May 29 Andrew Morton (2.5K) [PATCH] drivers/net: fix comparison of unsigned < 0	
33	N	May 30 Sanyun, Mark (3.4K) [PATCH] drivers/net: fix comparison of unsigned < 0	
34	N	May 29 Yinghai Lu (1.4K) [PATCH 4/5] serial: convert early_uart to early_console for 8250	523
35	N	May 29 Yinghai Lu (1.4K) [PATCH 5/5] serial: set DTR in uart for kernel serial console	
36	N	May 29 Yinghai Lu (2.3K) [PATCH 3/5] x86: initial fixmap support	
37	N	May 29 Yinghai Lu (2.4K) [PATCH 5/5] console: console handover to pre-allocated console	567
38	N	May 29 Yinghai Lu (2.2K) [PATCH 2/5] console: more buf for index parsing	
39	N	May 30 Wang Zhenyu (12K) [resend] [AGPGART] intel_agp: use table for device probe	
40	N	May 30 Wang Zhenyu (19K) [resend] [AGPGART] intel_agp: cleanup intel private data	
41	N	May 30 Dave Airlie (2.0K) [git pull] drm fixes for 2.6.22-rc3	
42	N	May 29 Matt Helsley (8.2K) [RFC][PATCH] Replacing the /proc/<pid/self>/exe symlink code	
---Mutt: =linux-kernel [Msgs:7969 New:7550 Inc:8 48M]---(threads/reverse-c)			
Kernel releases 5.4.0 - 5.9.0			

Top Signed-off-by:

David S. Miller	8446
Greg Kroah-Hartman	5028
Alex Deucher	4323
Mark Brown	3565
Mauro Carvalho Chehab	2596
Linus Torvalds	2446
Andrew Morton	2218
Chris Wilson	1884
Jens Axboe	1787
Martin Petersen	1639

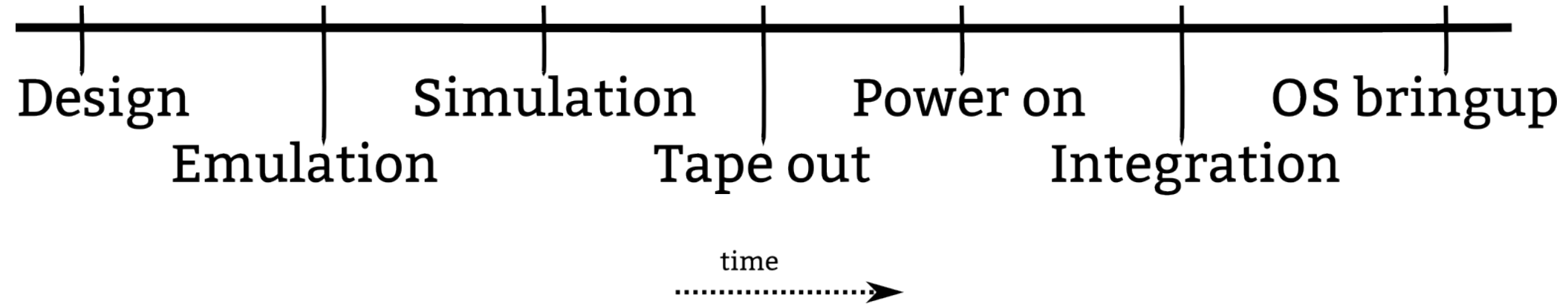
Who is funding this work?

1. “Amateurs”	13.5%
2. Intel	11.6%
3. Red Hat	6.6%
4. AMD	4.9%
5. Huawei	4.8%
6. Google	4.7%
7. Linaro	3.8%
8. SUSE	3.6%
9. IBM	3.1%
10. “Consultants”	2.7%

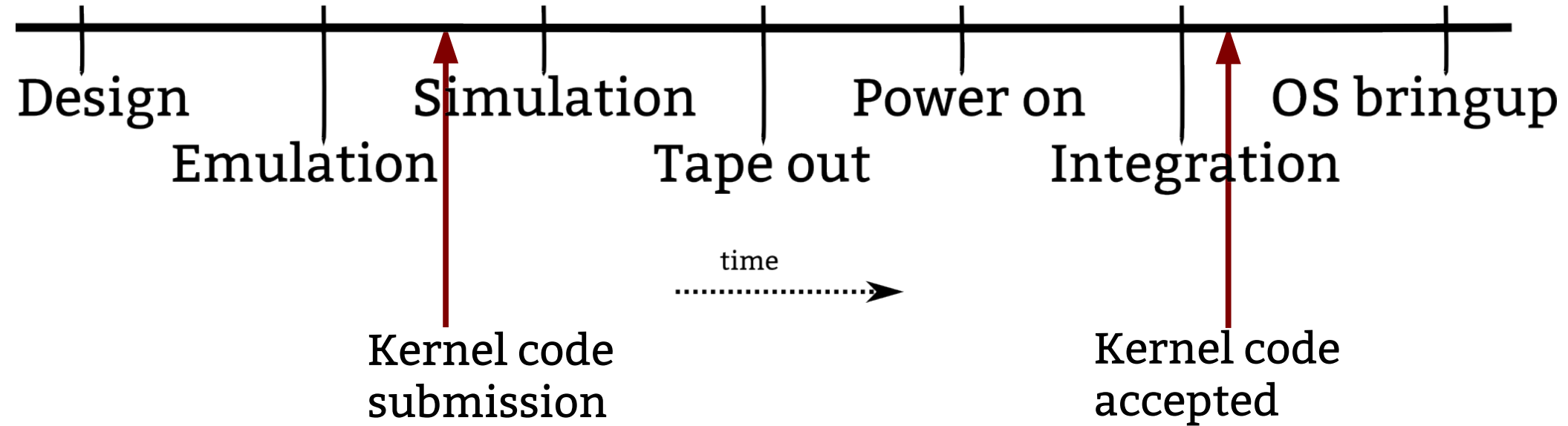
Who is funding this work?

11. Mellanox	2.5%
12. NXP Semiconductors	2.2%
13. Renesas Electronics	2.2%
14. Facebook	2.0%
15. ARM	1.8%
16. Oracle	1.3%
17. Texas Instruments	1.2%
18. Code Aurora (Qualcomm)	1.2%
19. Linux Foundation	1.2%
20. Canonical	1.1%

Development Process



Development Process



“Working upstream saves time and money”

Dan Frye – VP Open Systems, IBM

Dirk Hohndel – Chief Technologist, Intel

Maintainers are like editors in
the publishing industry.

– David Miller

Patches I received in a 2 week period

Patches I received in a 2 week period

1487

Subject: [PATCH 48/48] ...

15 patch series, no order given

Patches 1, 3-10

“Signed-off-by:” in signature

Signature saying email was confidential

Tabs were converted to spaces

Leading spaces removed

diff in non-unified format

Patch created in driver directory

Patch created in /usr/src/linux-2.6.32

Made against different tree

Wrong coding style

Wrong coding style,
and acknowledged it

Would not compile

Broke the build on patch 3/6

Broke the build on patch 3/6
and fixed it on 6/6

Broke the build on patch 5/8

Broke the build on patch 5/8

Contained note that fix would be sent later

Patches that had nothing to do with me

1 patch, 450kb big (4500 lines added)

Obviously wrong kerneldoc

This was a calm two weeks

How to do it right

[Documentation/process/submitting-patches.rst](#)
[Documentation/process/submitting-drivers.rst](#)
[Documentation/process/submit-checklist.rst](#)

It is in my self-interest
to ignore your patch

Give me no excuse
to reject your patch

What I will do for you:

Review your patch within 1-2 weeks

Offer semi-constructive criticism

Let you know the status of your patch

<zx2c4> i think the reason it works is not neccessarily because
<zx2c4> the responses are so terrific
<zx2c4> but because
<zx2c4> they are TERRIFYING
<zx2c4> so i'm forced to do my best possible work



git.sr.ht/~gregkh/presentation-linux-maintainer



github.com/gregkh/presentation-maintainer

git.sr.ht/~gregkh/presentation-linux-maintainer

