

Linux Kernel Development

Greg Kroah-Hartman
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github.com/gregkh/kernel-development

39,700 files
15,870,000 lines

2,497 developers
347 companies

10,700 lines added

7,600 lines removed

2,340 lines modified

10,700 lines added

7,600 lines removed

2,340 lines modified

every day


6.64 changes per hour

Kernel releases 3.2.0 – 3.6.0
October 2011 – September 2012

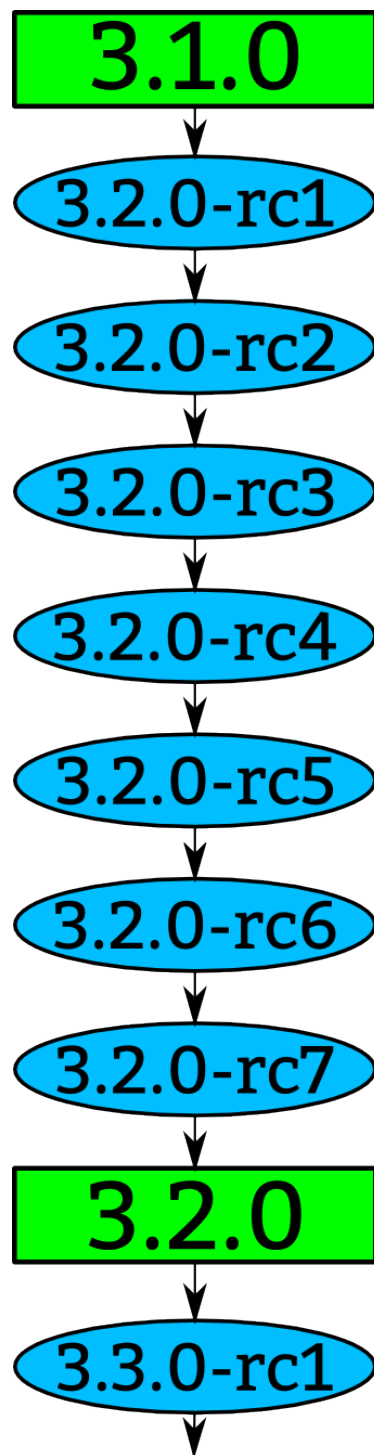
How we stay sane

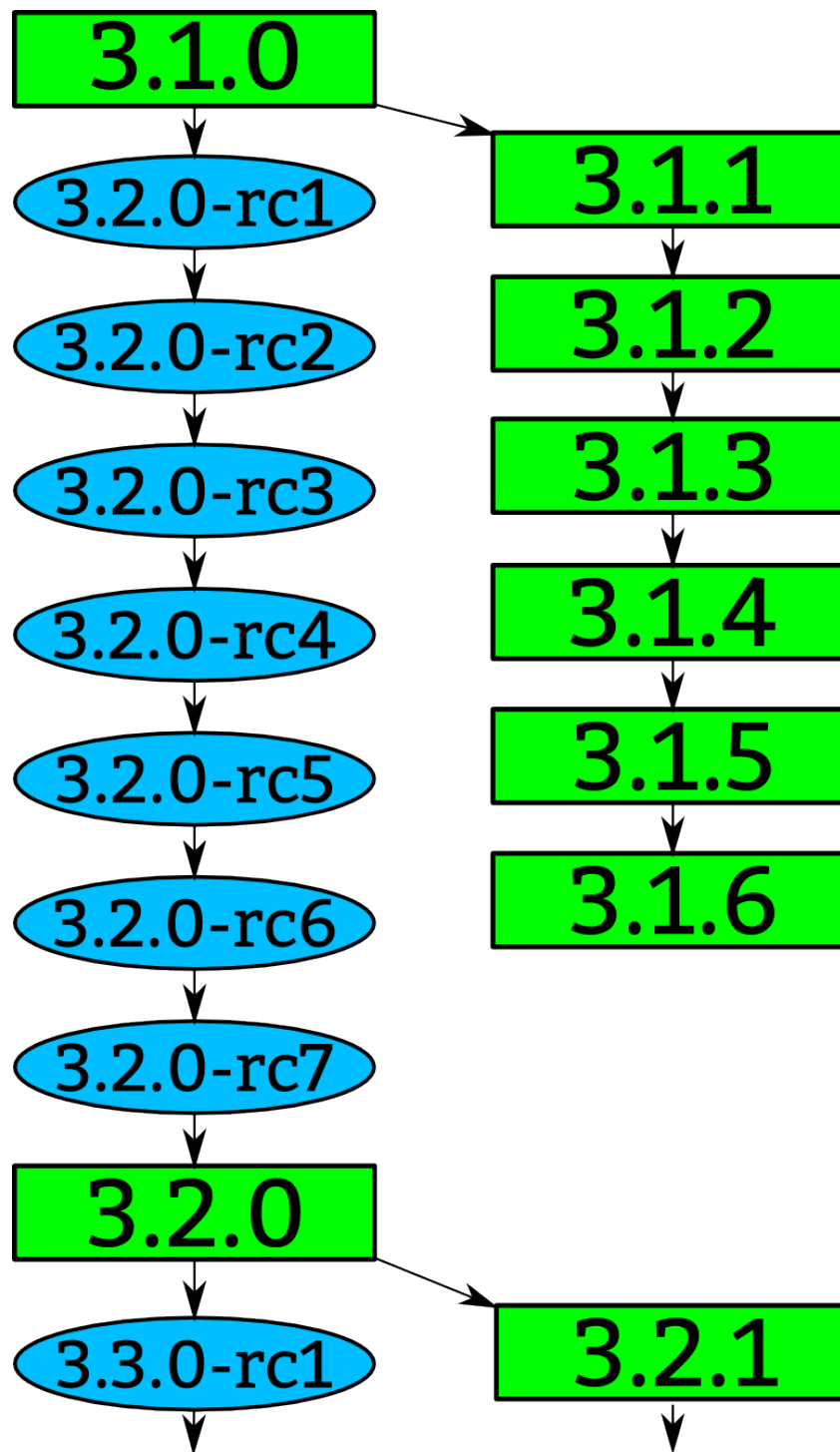
Time based releases

Incremental changes



**New release every
2³/₄ months**





“Longterm kernels”

One picked per year

Maintained for two years

3.0 and 3.4

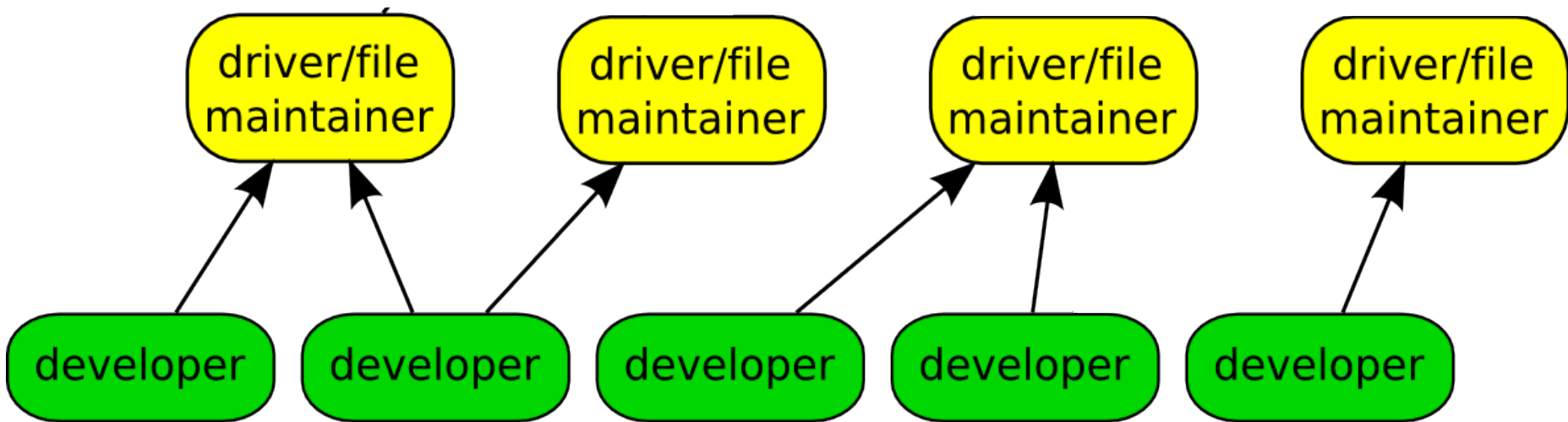
developer

developer

developer

developer

developer



commit ecf85e481a716cfe07406439fdc7ba9526bbfaeb
Author: Robert Jarzmik <robert.jarzmik@free.fr>
AuthorDate: Tue Apr 21 20:33:10 2009 -0700
Commit: Greg Kroah-Hartman <gregkh@suse.de>
CommitDate: Thu Apr 23 14:15:31 2009 -0700

USB: otg: Fix bug on remove path without transceiver

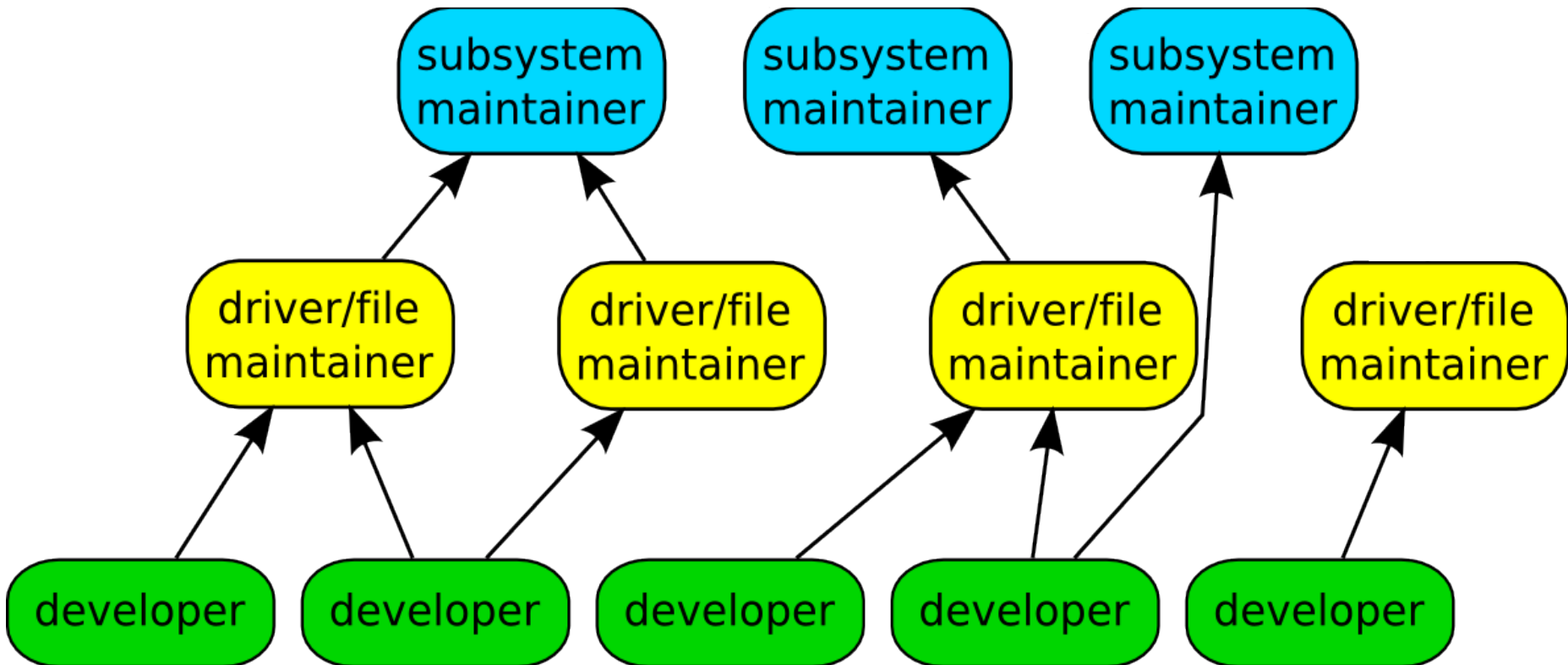
In the case where a gadget driver is removed while no transceiver was found at probe time, a bug in otg_put_transceiver() will trigger.

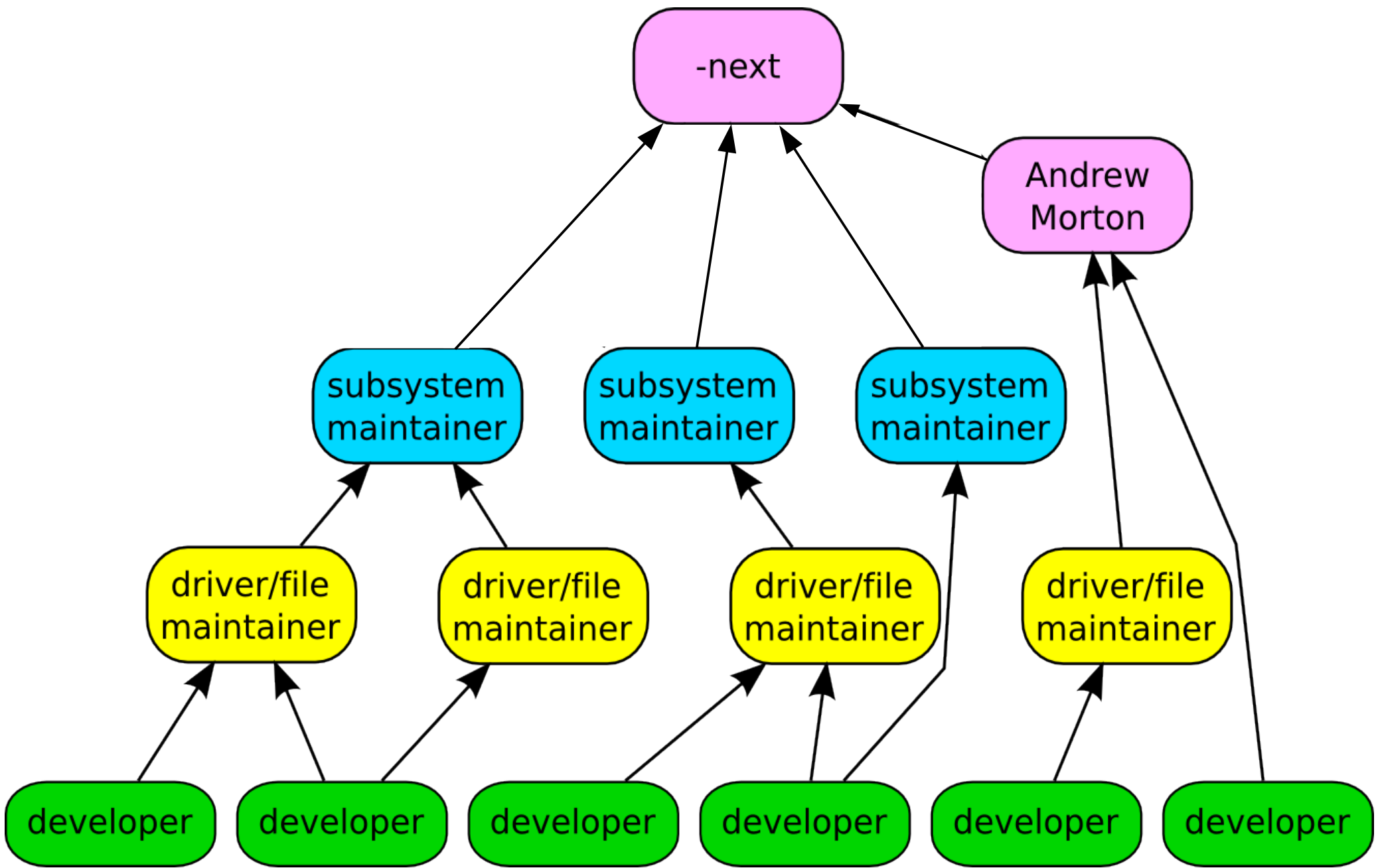
Signed-off-by: Robert Jarzmik <robert.jarzmik@free.fr>
Acked-by: David Brownell <dbrownell@users.sourceforge.net>
Signed-off-by: Greg Kroah-Hartman <gregkh@suse.de>

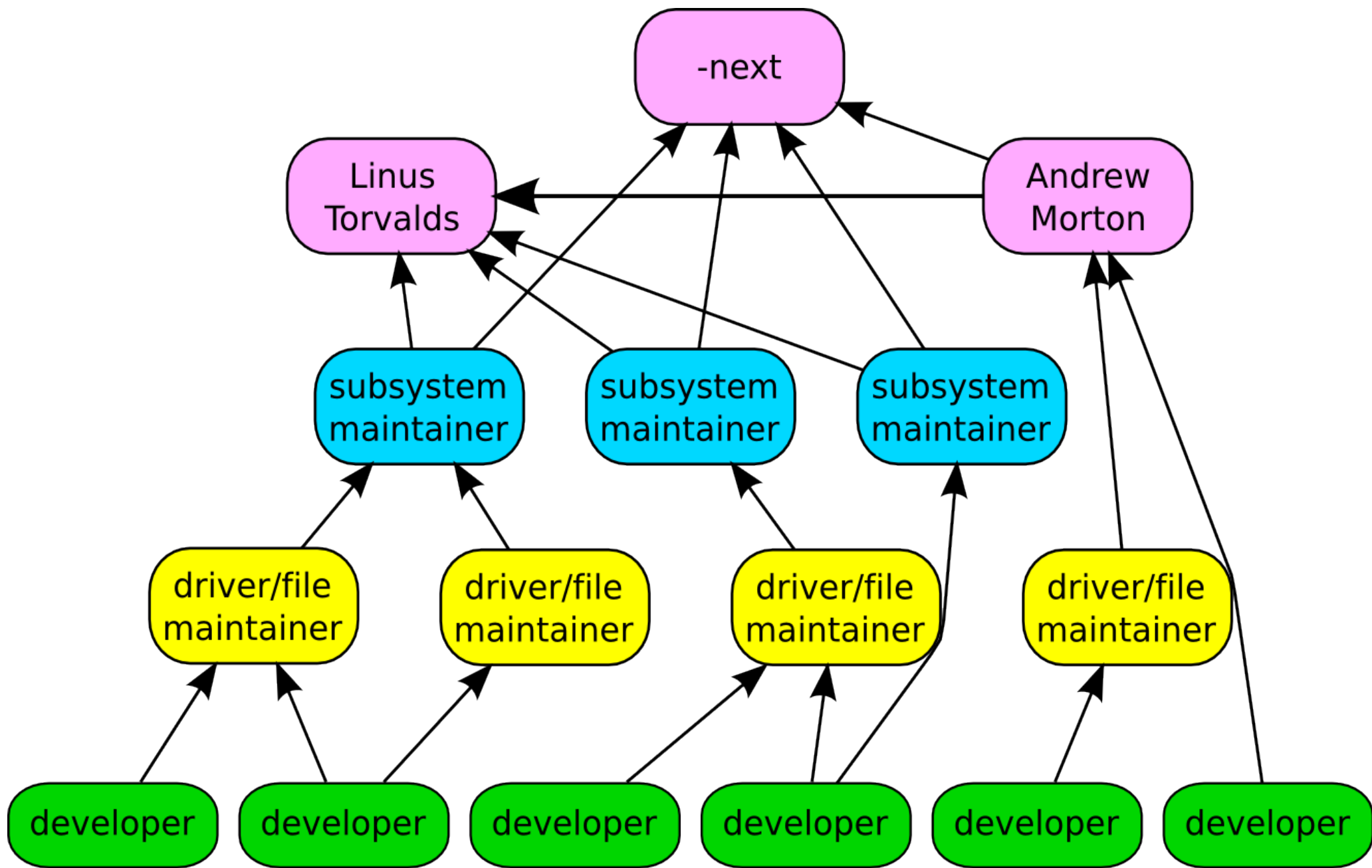
```
--- a/drivers/usb/otg/otg.c
+++ b/drivers/usb/otg/otg.c
@@ -43,7 +43,8 @@ EXPORT_SYMBOL(otg_get_transceiver);
 void otg_put_transceiver(struct otg_transceiver *x)
 {
-    put_device(x->dev);
+    if (x)
+        put_device(x->dev);
 }
```

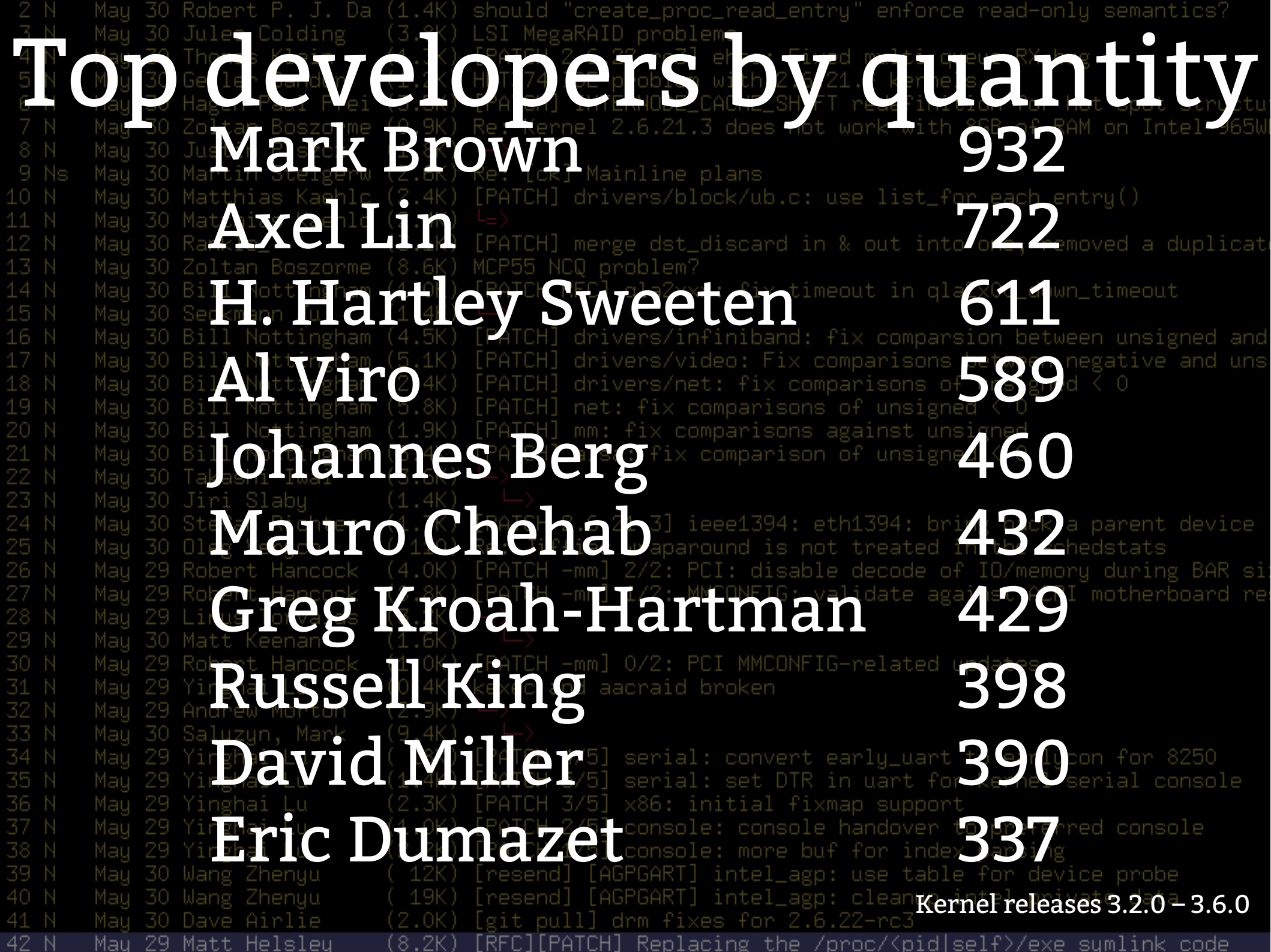
Developer's Certificate of Origin

- (a) I created this change; or
- (b) Based this on a previous work with a compatible license; or
- (c) Provided to me by (a), (b), or (c) and not modified
- (d) This contribution is public.









Top Signed-off-by:

Greg Kroah-Hartman 4179

David S. Miller 3338

John Linville 2227

Mauro Carvalho Chehab 2041

Mark Brown 2155

Linus Torvalds 1593

Andrew Morton 1360

Al Viro 796

David Airlie 777

Axel Lin 728

Kernel releases 3.2.0 – 3.6.0

Who is funding this work?



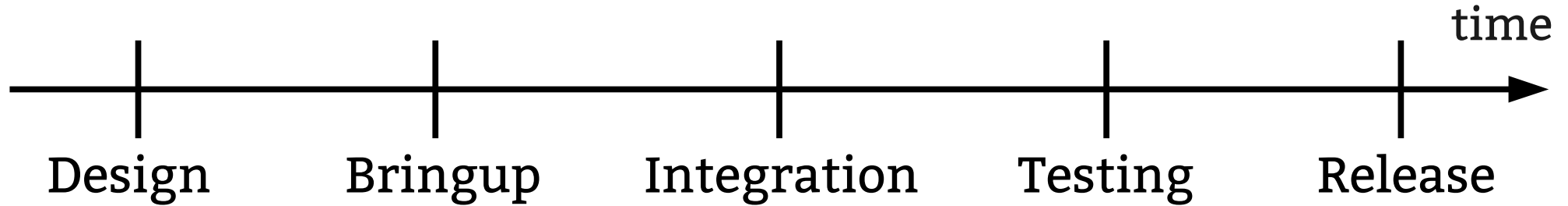
1. “Amateurs”	11.8%
2. Red Hat	10.5%
3. Intel	9.4%
4. Unknown Individuals	6.6%
5. Texas Instruments	3.7%
6. Novell	3.6%
7. Linaro	3.4%
8. IBM	2.9%
9. Google	2.3%
10. Wolfson Micro	2.2%

Who is funding this work?

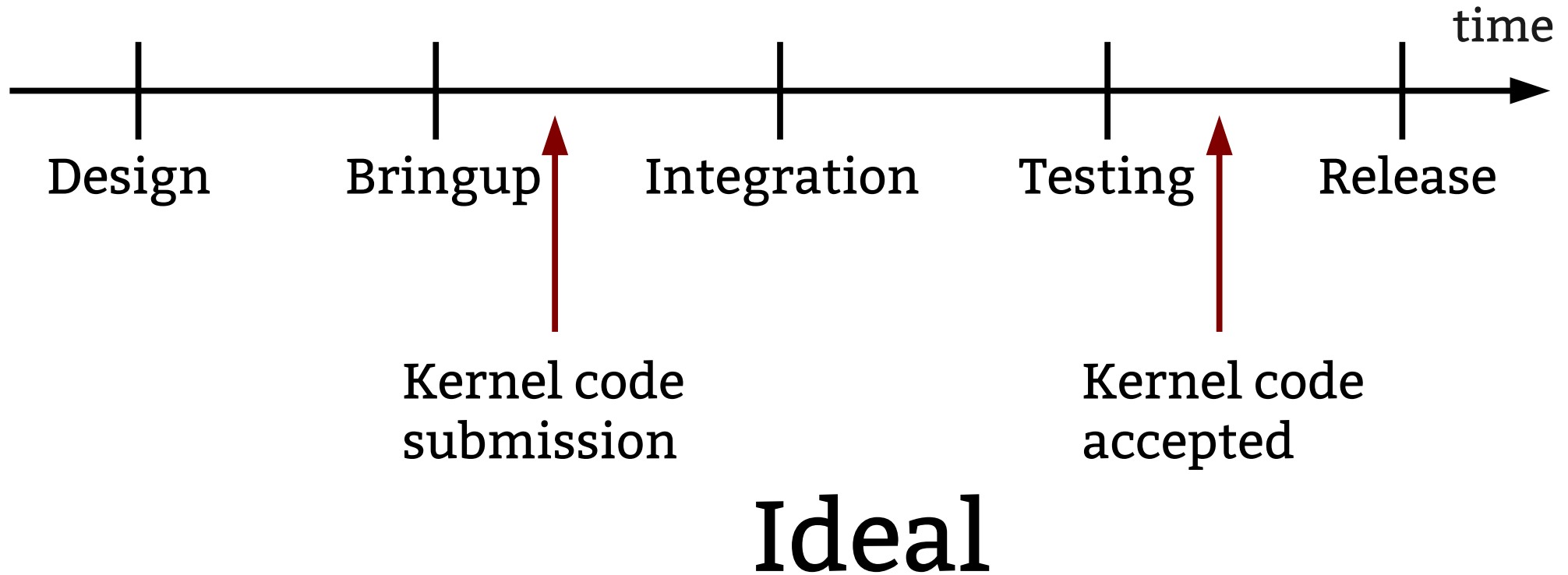


11. Consultants	2.1%
12. Samsung	1.9%
13. Ingics Technology	1.7%
14. Oracle	1.7%
15. Qualcomm	1.6%
16. Vision Engraving	1.4%
17. Broadcom	1.3%
18. Nvidia	1.3%
19. Linux Foundation	1.2%
20. Renesas Electronics	1.2%

Product Development



Product Development



“Working upstream saves time and money”

Dan Frye – VP Open Systems, IBM

Dirk Hohndel – Chief Technologist, Intel



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