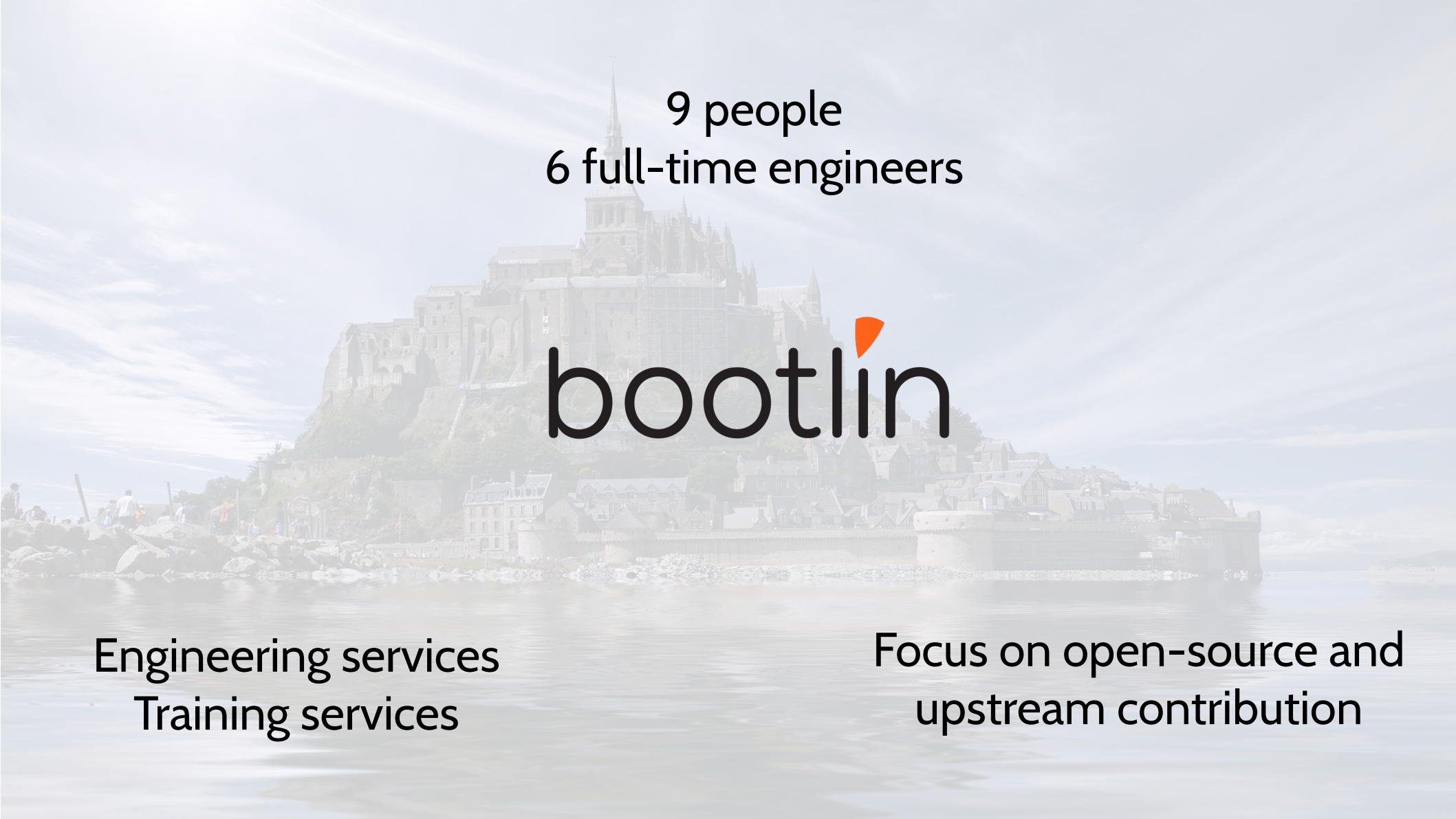




Linux kernel SoC mainlining : Some success factors

(from a bunch of French people)

Thomas Petazzoni - CTO, Bootlin
thomas.petazzoni@bootlin.com

The background of the slide is a faded, grayscale image of Mont Saint-Michel, a famous French Benedictine monastery and fortified island. The image shows the iconic spire of the abbey church rising from the rocky island, surrounded by smaller buildings and a coastal town at the base. The sky is filled with wispy clouds, and the water in the foreground is calm.

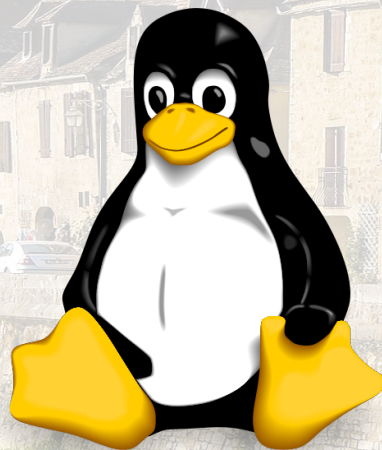
9 people
6 full-time engineers

bootlin

Engineering services
Training services

Focus on open-source and
upstream contribution

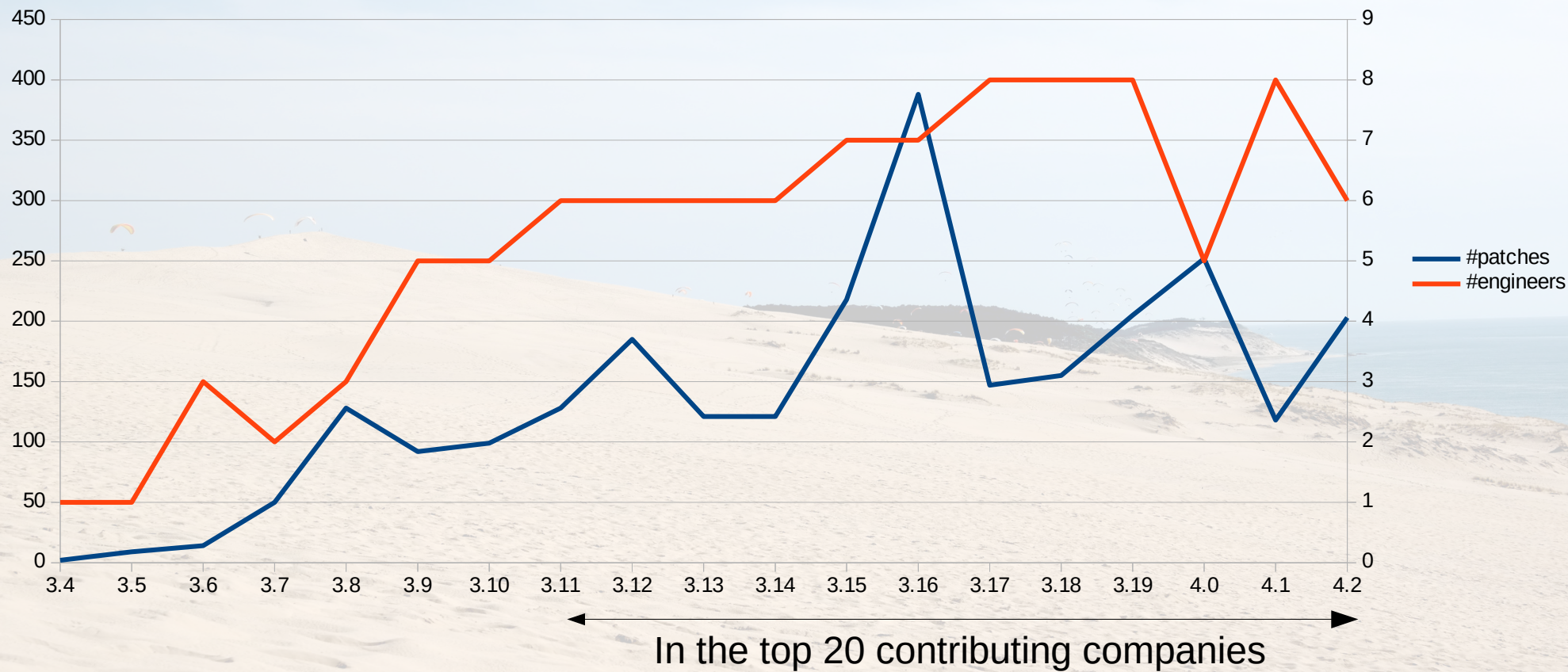
ARM SoC support upstreaming specialization



Marvell EBU, Marvell
Berlin, Atmel and
Allwinner SoCs

SoC and board
vendor partnership,
hobbyist
involvement

Bootlin kernel contributions





*From: Tim Bird <tim.bird@sonymobile.com>
To: Thomas Petazzoni <thomas@bootlin.com>
Subject: Up for a keynote?*

I also looked at Bootlin's contributions, and noticed that you are doing more per-developer than any other SoC vendor.

I'm very interested to hear what you think makes your group so successful.





***« An infinite number of monkeys
typing into GNU emacs would
never make a good program »***

**Linus Torvalds, CodingStyle
documentation, 1995**

Small team



Knowledge sharing

Britannica

MICROPEDIA
Ready
Reference

1

Britannica

MICROPEDIA
Ready
Reference

2

Britannica

MICROPEDIA
Ready
Reference

3

Britannica

MICROPEDIA
Ready
Reference

4

Motivation



Community



Small company





Conferences and networking

Focus





**Management
and customer
understanding**

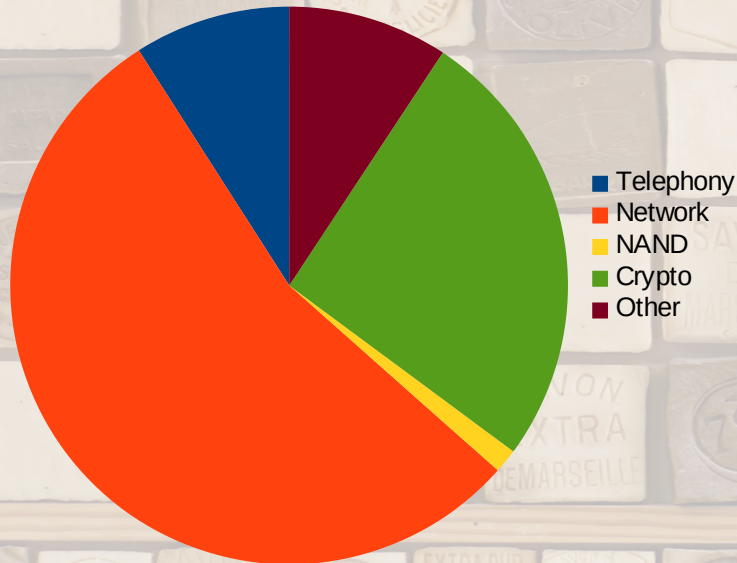
The right tools



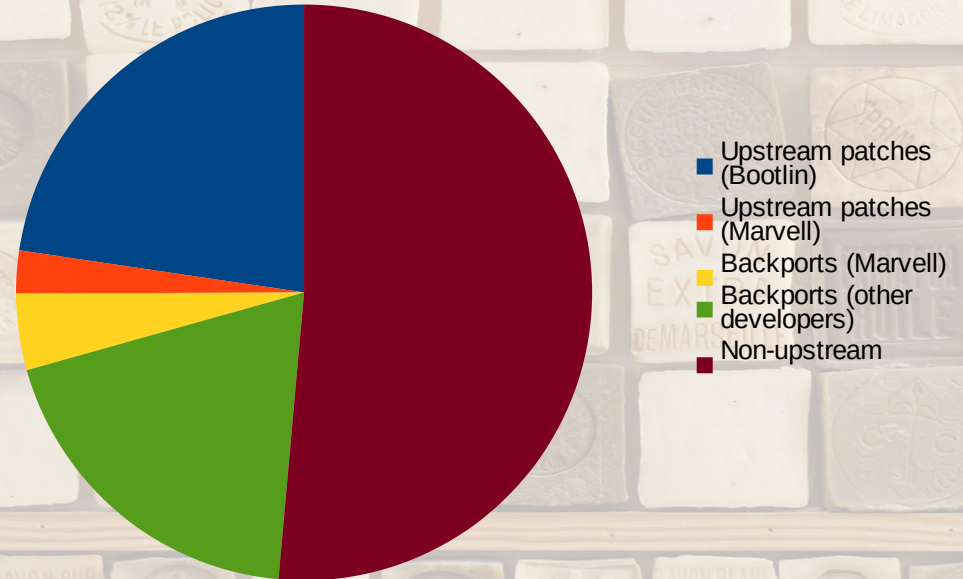
Results

- Marvell BSP for Armada 375/38x based on 3.10.70
- 1373 patches on top of 3.10.70
- 432434 added lines, 7392 removed

Difference, in lines of code



Difference, in patches



From: Arnd Bergmann <arnd@arndb.de>
To: Linus Torvalds <torvalds@linux-foundation.org>
Cc: arm@kernel.org, linux-kernel@vger.kernel.org, linux-arm-kernel@lists.infradead.org
Subject: [GIT PULL 2/8] ARM: SoC: cleanups for 3.15
Date: Sat, 5 Apr 2014 20:03:45 +0100
Sender: "linux-arm-kernel" <linux-arm-kernel-bounces@lists.infradead.org>
User-Agent: KMail/1.12.2 (Linux/3.8.0-22-generic; KDE/4.3.2; x86_64; ;)

The following changes since commit 6d0abeca3242a88cab8232e4acd7e2bf088f3bc2:

Linux 3.14-rc3 (2014-02-16 13:30:25 -0800)

ARM: SoC: cleanups for 3.15

These cleanup patches are mainly move stuff around and should all be harmless. They are mainly split out so that other branches can be based on top to avoid conflicts.

Notable changes are:

- * We finally remove all mach/timex.h, after CLOCK_TICK_RATE is no longer used. (Uwe Kleine-König)
- * The Qualcomm MSM platform is split out into legacy mach-msm and new-style mach-qcom, to allow easier maintainance of the new hardware support without regressions. (Kumar Gala)
- * A rework of some of the Kconfig logic to simplify multiplatform support (Rob Herring)
- * Samsung Exynos gets closer to supporting multiplatform (Sachin Kamat and others)
- * mach-bcm3528 gets merged into mach-bcm (Stephen Warren)
- * at91 gains some common clock framework support (Alexandre Belloni, Jean-Jacques Hiblot and other French people)



Linus Torvalds

Partagé en mode public - 5 avr. 2014



Q: How can you tell when a kernel maintainer is European?

A: He describes some of the changes as written by "Alexandre Belloni, Jean-Jacques Hiblot *and other French people*".

.. because clearly it's too hard to keep track of all those French people that presumable nobody cares about anyway.

Heh.

[Traduire](#)

+752

↪ 54





Olof Johansson

Partagé en mode public - 28 avr. 2014

A bunch of French people.

Traduire



San Jose Marriott 301 South Market Street, San Jose, CA, United States



+16



The background of the slide is a faded, low-angle photograph of a large, historic cathedral. The most prominent feature is a tall, multi-tiered bell tower (campanile) with a pointed roof, rising from the left side of the main structure. The cathedral's facade is made of light-colored stone or brick, featuring large arched windows and a central dome. The sky is a clear, pale blue.

Thanks !

and BTW, we're hiring :
jobs@bootlin.com