## Maintainer's Diary: We have a scaling problem

#### Wolfram Sang

Consultant



## Statistics: # of patches



## Statistics: # of people



## Statistics: increase of people



- Stats only based on accepted patches
  There are also superseded, rejected patches, teaching new authors...
- Situation at v3.0 was already far from ideal

#### What is a maintainer? Trond Myklebust said it nicely<sup>1</sup>:

"Currently, the Linux maintainer appears to be responsible for filling all of the traditional roles of

- software architect
- software developer
- patch reviewer
- patch committer
- and software maintainer."

<sup>&</sup>lt;sup>1</sup>link here

# Yes, this is a rare bunch $!^2$

<sup>2</sup>but they usually have fun doing that :)

Wolfram Sang (Consultant)

We have a scaling problem

## Statistics: # of people (with supporters)



## Statistics: increase of people (with supporters)



## A typical (simple) SoC













- Again: Stats only based on accepted patches
- There are also totally valid patches which got lost Couldn't find a way to measure that, though
- Weather forecast: Situation will get worse Expect either increased latency or questionable patches coming in

#### Give feedback

- give comments about patches
- give tags (Tested-by:)

#### resend overlooked patches

- only if you still use and need them
- check if there are open issues
- resend

<sup>&</sup>lt;sup>3</sup>as in "users of patches"

#### Always give your best shot

- missing experience is no problem
- sloppiness is a problem
- be honest, give reasons for suboptimal solutions

#### take part in Q&A

- review
- review your own patches
- discuss
- clean up, consolidate
- if you are interested, become a maintainer

## What you can do: Maintainers

#### Work harder...*not!*

- we don't need burnout
- be aware of the fast-forward button

#### have your tools ready

- yeah, workflow is highly subjective...
- ...still check with other maintainers what is out there
- My top three recommendations
  - keyboard shortcuts
  - git hooks
  - patchwork

did you know it collects tags for you?

#### automize tasks

- really pay atterntion to boring, repititive tasks
- have I mentioned proper tools?

#### allow developers to take part in Q&A

- some really want to if allowed
- those will improve their skills a lot

#### educate internally

- OK to ask maintainer for subsystem specific help
- not OK to let maintainers teach basic stuff
  - if I know you have people inhouse which can do the same

#### be aware that things might take time

• we are trying to be fast, yet there is overload

#### see maintaining as a job on its own

- worth being paid for, directly or indirectly
- independent maintainers are best, see Linus or Greg although with enough credit, it will work, too
- probably the item to improve the situation

## Paid/supported maintainers



## Let's go for it!

### Questions?

- Right here, right now...
- Later at the conference
- wsa@the-dreams.de