Ion @ LPC 2016

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Please ask questions
Goals

- What to do with Ion currently in staging
- What to do to move Ion forward
30 second update

- Some progress forward
  - New query ioctl
  - Delete some dead code
  - Thinking way too hard about caching
- Platform/devicetree support probably needs to be reverted
- Sloooooooooooooooow progress towards fundamental problems
But why are we stuck?

- Ion as kernel API vs. Ion as stack
  - Caching is example
- No one really working full time
- No real ‘reference platform’
  - Most Ion interest is in commercial devices, not upstream
Let’s give up
Okay not actually give up
Let’s try a new approach

● Ion as self-contained framework doesn’t work
  ○ Ion is not binder
● No new features, bug fixes only
  ○ Still take style fixes
● Think about userspace as well
  ○ Problems from userspace trickle down into the kernel
● Moving Ion out of staging is not a goal in itself
  ○ We want a workable framework
XDC brought up device allocation

- Other people are interested in similar problems
  - Ion/gralloc are explicitly mentioned there
- Discussion and prototyping should happen there
- Take the lessons from Ion to that project
- [https://github.com/cubanismo/allocator](https://github.com/cubanismo/allocator)
- Development should work towards the assumption that this will replace Ion