Kernel driver prog. day 4

Presented by

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Upstream ↔ Downstream

- Linus Torvalds kernel tree and the tarbals released from it are used as the source / base for the kernel used in Linux distributions

- Distributions often make their own changes and derative distributions may make more changes on top of this

- In this model Linus' original code is called the upstream and distributions are downstream, with derative distributions being downstream of the downstream

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Kernel devel process

- Each kernel release sees an amazing amount of change, for the 4.2 release:
  - 13,555 changesets
  - From 1,569 developers
  - Adding 1.09 million lines of code
  - Removing 285,000 lines of code
  - In just 10 weeks
- So how does all this code get in Linus' tree?

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Kernel devel process

- Linus merges in pull-requests with changesets from subsys maintainers

- Subsys maintainers merge in pull-requests from sub-subsys maintainers, driver maintainers and / or merge changes themselves directly

- This depends on the size of the subsystem and the number of contributors to a subsystem

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Questions?

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Hands on: Coding time!

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