DPDK Community Updates

DPDK SUMMIT USERSPACE - BORDEAUX - 2019
JOHN MCNAMARA, FERRUH YIGIT
Introduction to existing process

• Mailing list with patch based development
  • Work split into sub-trees
  • Each component has a maintainer
  • 134 unique maintainers, 9 sub-trees, 2 draft sub-trees in v19.08
    ➢ 4 application project hosted in dpdk.org
  • Repos hosted at git.dpdk.org, mirrored on GitHub

• A release every 3 months, xx.02, xx.05, xx.08, xx.11 (LTS)
  • Proposal 1st month: Submit new patches/RFC/v1
  • Integration 2nd month: Code reviewed and new revisions. Ends with RC1
  • Test 3rd month: Testing and fixes applied. Ends with release
Tracking the growth of the project by Number of individual contributors & Number of Domains (companies)
Number of patches (based on patchwork ids)

59342 - Sep. 18, 2019 (240 days)
50000 - Jan. 22, 2019 (253 days)
40000 - May 14, 2018 (217 days)
30000 - Oct. 9, 2017 (258 days)
20000 - Jan. 25, 2017 (372 days)
10000 - Jan. 20, 2016 (645 days)
00001 - April 16, 2014

git diff --shortstat v18.11..v19.08

2728 files changed, 401401 insertions(+), 230725 deletions(-)
Subtrees and Maintainers

master

Thomas Monjalon
Ferruh Yigit (b)

next-crypto
Akhil Goyal

next-eventdev
Jerin Jacob

next-net
Ferruh Yigit
Andrew Rybchenko

next-pipeline
next-qos
Cristian Dumitrescu

next-virtio
Maxime Coquelin
Tiwei Bei

next-intel
Qi Zhang
Xiaolong Ye

next-mlx
Raslan Darawsheh

next-mrvl
Jerin Jacob
Changes to process since last Userspace

- Travis CI support
- DPDK Open Lab OvS testing, build tests
- Intel public CI improved [1]
- New Security process
- More mature meson support
- New email archive and news server, inbox.dpdk.org
- Online cross reference, lxr.dpdk.org
- Weekly project status meetings going on
LTS trees and Maintainers

17.11 (17.11.6)
Kevin Traynor (acting)

18.11 (18.11.2)
Kevin Traynor

19.11
Luca Boccassi
New PMDs (since 18.11)

- **next-net**
  - af_xdp
  - hinic
  - ice
  - ipn3ke
  - memif
  - nfb
  - octeontx2
  - ppfe (19.11)
  - hns3 (19.11)

- **crypto**
  - nitrox (19.11)

- **eventdev**
  - octeontx2

- **mempool**
  - octeontx2

- **raw**
  - ioat
  - ntb

- **baseband**
  - fpga_lte_fec
Other

- libraries
  - librte_ipsec
  - librte_rcu
  - librte_stack
  - librte_rib (19.11)

- platform
  - windows

- apps
  - test-compress-perf
Discussion (From last year) Are we better?

- Predictability of status of a feature
- Complex feature requirement gathering and design review
- Multi-vendor features
- Timely releases and milestones
- Release cycle
- Roadmaps

- DPDK Open Lab
- Patch lifecycle metrics
- Consumption metrics
- More Unit Test / Documentation
- More reviews
- Git Merge
“Thank you

John McNamara john.mcnamara@intel.com
Ferruh Yigit ferruh.yigit@intel.com

”
Backup [1]

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<th>icc</th>
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<th>gcc+debug</th>
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