Project Growth & Next Steps



Agenda



Recent History

2012: zip file on intel.com

2013: git + mailing list on independent dpdk.org

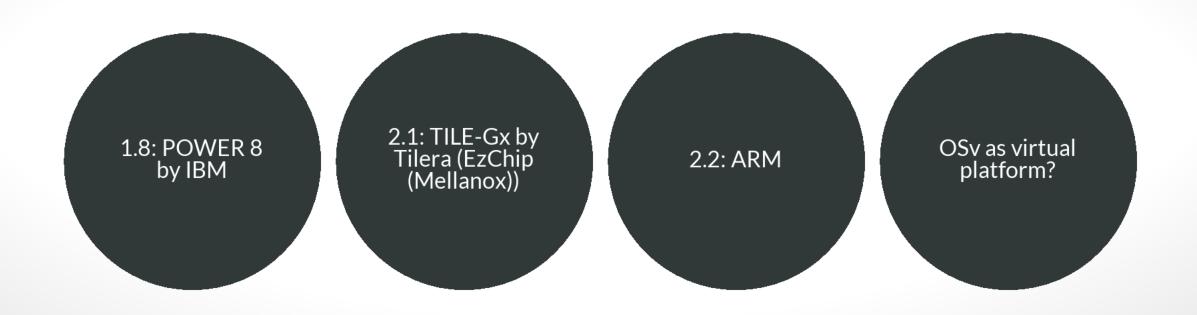
2014: patchwork, Fedora package

2015: doc, ABI care, various hardware support

2016:

More Platforms

All platform vendors are welcome



Recently Submitted Device Drivers



Broadcom/QLogic NetXtremeII



Chelsio T5



Cisco VIC



COMBO-100G



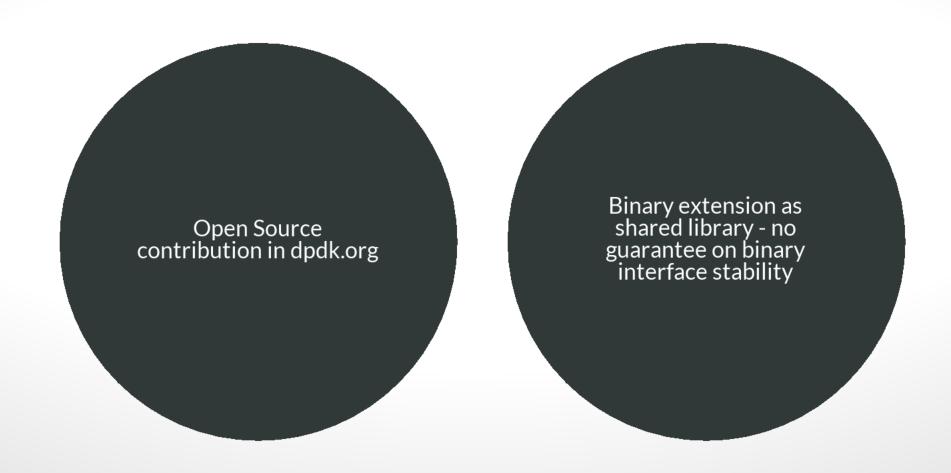
Intel FM10000



Mellanox ConnectX-4

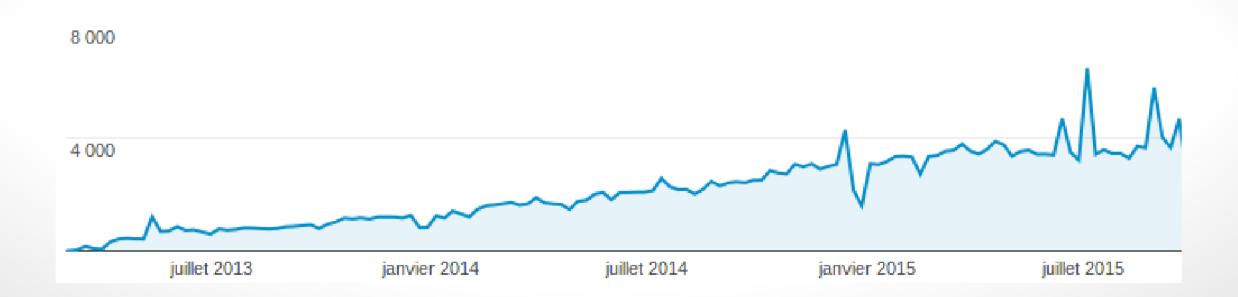
More Devices

All device vendors are welcome, choose your model:



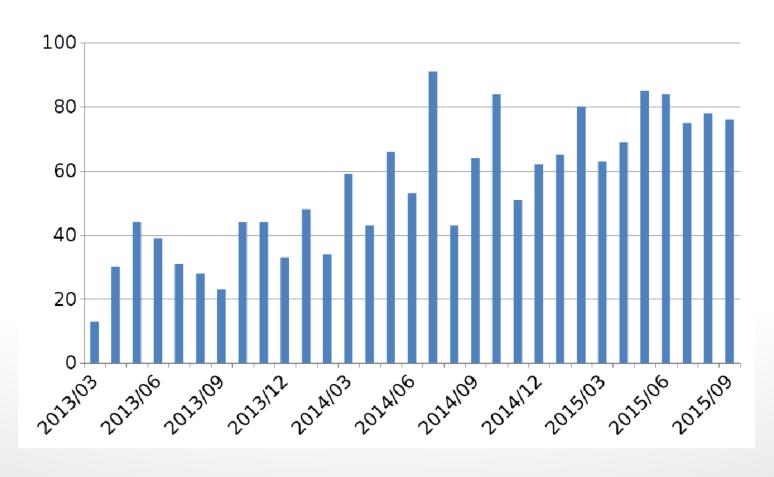
More Visitors

5000 website users per week



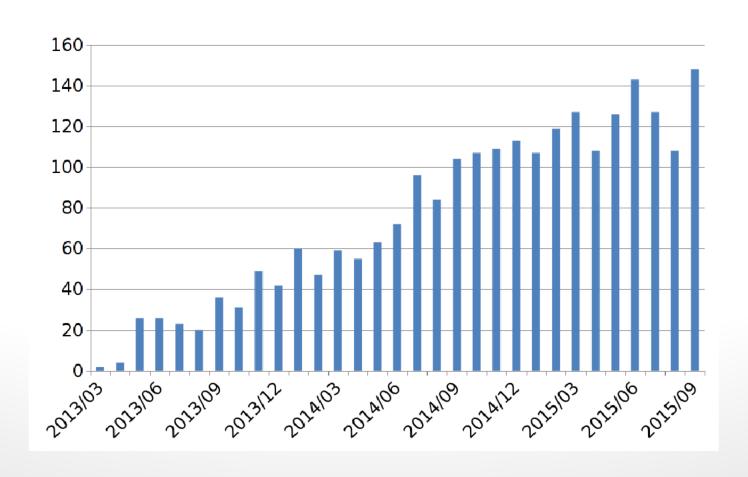
More Popular

1200 members New registrations on dev@ each month



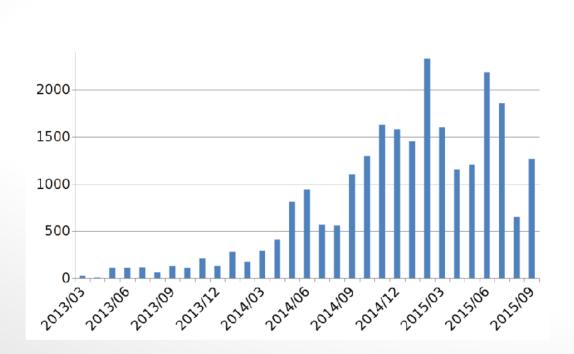
More Voices

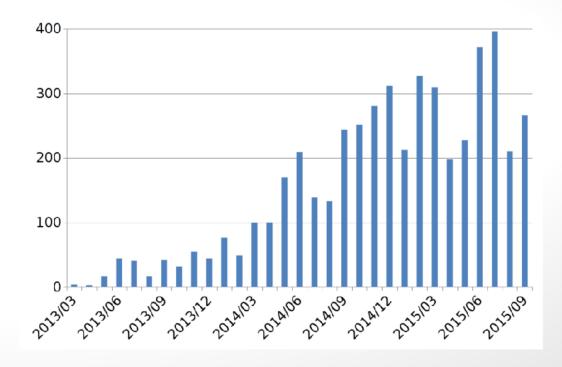
140 senders on dev@



More Discussions

Emails and threads on dev@





Large Email Flow

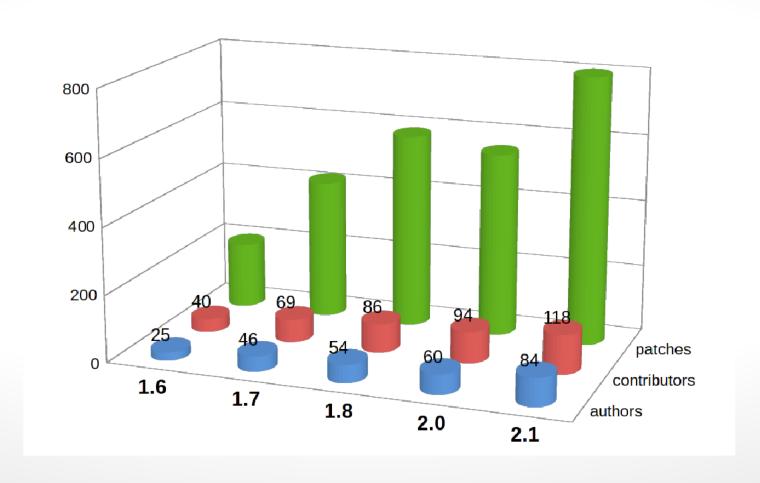


300 threads (1400 emails) per month

Take care of your readers: http://dpdk.org/ml

Good and short title attract more readers

More Contributions



Reviews Make Release



Mailing list is not write-only, please read what others do and comment



Reviewers are very important for project scaling



More reviewers + Faster = More enjoying contributors



Patchwork since 2014

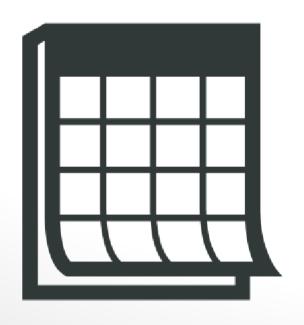


Maintainers

Responsibilities on dedicated areas (since this year)



Release Lifecycle



Merge window is open when a major release x.y.0 is out

1 month before a major release, features should be integrated

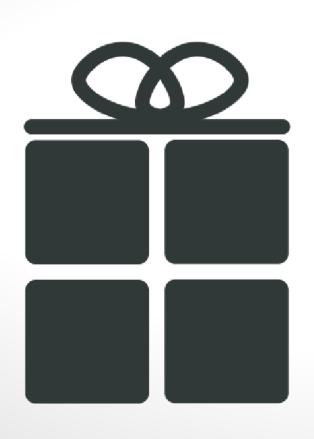
Deadline for 2.2 features: end of October

Every 4 months, a major release

2.2.0 should be released at end of November

Packaging

FreeBSD, Fedora, RHEL, Ubuntu... need more!





Packaging / Config

needed evolutions

less options

avoid duplicated/limited templates

make config ARCH= OS= CC=

internal/external dependencies

Packaging / Build

needed evolutions

standard binary install

app link with pkgconfig



API/ABI care (since 2.0)



update to next release without rebuilding apps (NEXT_ABI=n)



deprecation notices give time to adapt apps

Documentation

Doc in code and updated simultaneously

HTML/PDF outputs

Book about devices



Clearer contribution process



Guidelines for coding style, doc, versioning



Design decision become a guideline

Community Marketing



Open website administration





Structure for branding and marketing

Linux Foundation? ONF? lightweight other?

Avoid issues!



Bug Management

why/how a bug tracker

avoid forgetting bugs

help to dispatch maintenance work

risk: break discussions flows



should notice important changes by email



email discussions should be integrated in comments

Test Coverage



various code/comment/spell checkers



various C compilers



various C++ compilers for C++ application



various OS



various CPU



various devices

Test Goals

more than basic checks, unit tests or DTS

Benchmark



check regression or improvement



support for patch discussions

Frequency



daily



per patch



on demand - private patch

Distributed Tests

big tasks need big community



Distributed CI

per patch test

Counters in a patchwork column

Links to details in test-report@dpdk.org archives

Report header must comply with the (not yet) adopted format









Patchwork: http://dpdk.org/dev/patchwork/patch/2905



