



DPDK

DATA PLANE DEVELOPMENT KIT

WILLKOMMEN
BENVINGUT
velkommen
HORAS!
merhbe
welkom
ようこそ
KENA KA KGOTSO!
WELKOM
Bula
WELKOM
BULA
CROESO
bienvenue
BIENVENIDO
MERHBE
歡迎光臨
Croeso
Walcome

BIENVENUE

Добро пожаловать!
merhbe
MREHBA
velkomin
BEMVINDU
saive
CROESO
めんそーれ
歓迎
καλώς Ορίσαστε
ZOO SIAB TXAIS TOS!
BITAEMO
SALVE
BINE ATI VENIT
MENSOOREE
آلهس و آلهأ



USERSPACE BORDEAUX 2019

Jim St. Leger

DPDK Governing Board, Chair

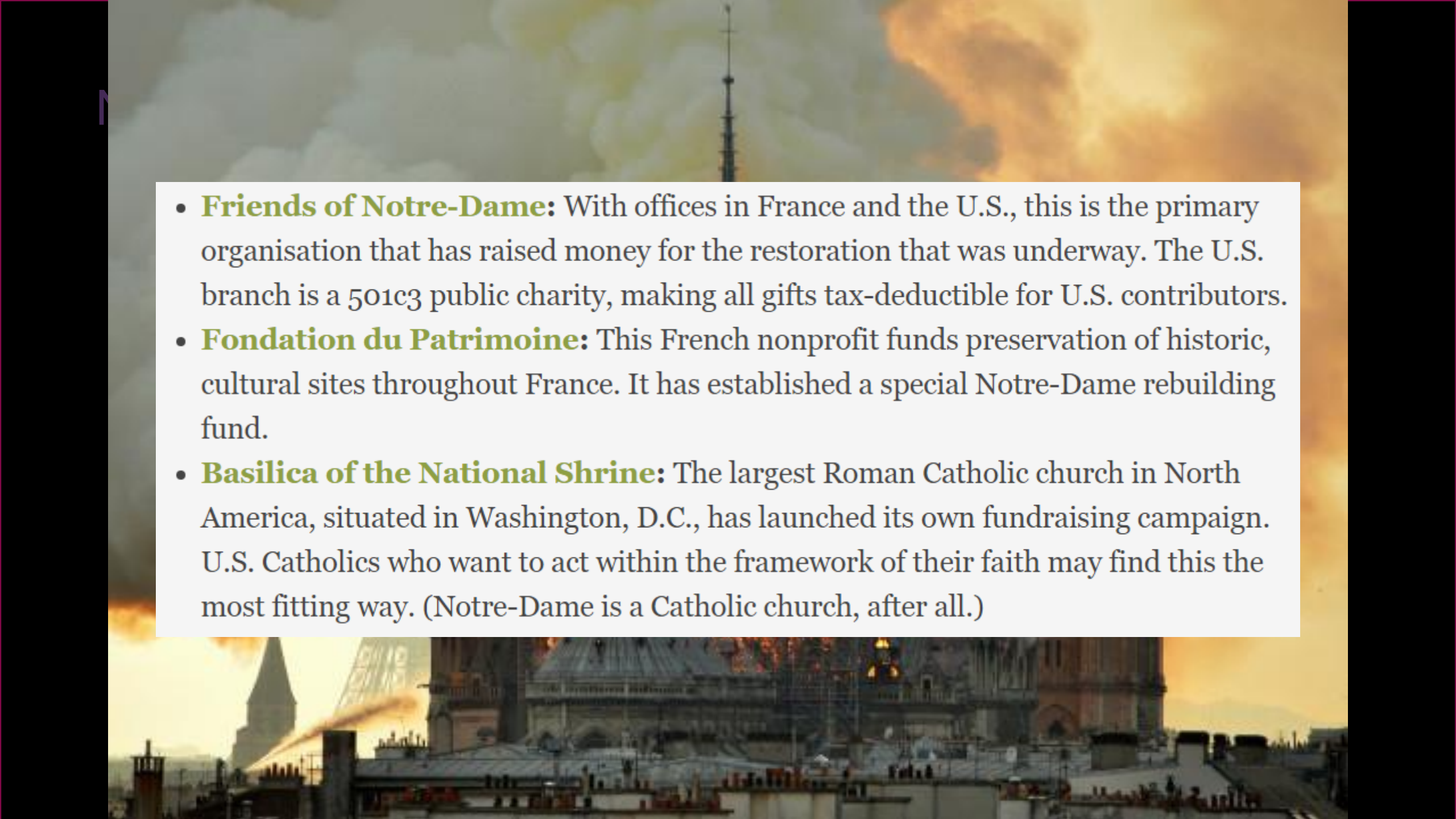
#DPDKuserspace

DPDK Userspace in France







- 
- **Friends of Notre-Dame:** With offices in France and the U.S., this is the primary organisation that has raised money for the restoration that was underway. The U.S. branch is a 501c3 public charity, making all gifts tax-deductible for U.S. contributors.
 - **Fondation du Patrimoine:** This French nonprofit funds preservation of historic, cultural sites throughout France. It has established a special Notre-Dame rebuilding fund.
 - **Basilica of the National Shrine:** The largest Roman Catholic church in North America, situated in Washington, D.C., has launched its own fundraising campaign. U.S. Catholics who want to act within the framework of their faith may find this the most fitting way. (Notre-Dame is a Catholic church, after all.)



Details For You

- **WiFi Access** – Back of Badge – DPDK2019
- **Streaming Live!** Youtube “DPDK Project” channel
- **Presentations** – Sched site <https://dpdkbordeaux2019.sched.com/> or QR code
- **Presenters** – Deliver presentations to David Marchand in the back
- **Presenters** – Get mic’d up during prior talk, un-mic after – see hostess
- **Hosts:** Vincent Jardin, Franck Baudin, Ivan Boule, Olivier Matz
- **Social Media** – #DPDKuserspace #DPDK @DPDKProject
- **Meeting Room** – Available for booking – see hostess
- **Breaks/Lunch/Cocktails** – Reception Area – Salons La Fayette
- **Auditorium Rules** – No food (drinks okay)

La Cité du Vin

- Public space – please be respectful
 - Do not go out of Salons La Fayette with glasses
 - Do not enter the auditorium with food. Only water is allowed
 - Smoke only in front of the main entrance (better yet, don't smoke!)
- Badge ticket for permanent exhibit – 2x entries (same ticket)
 - 5-6pm on Friday
 - Any time (skip a talk)
 - Headphones for translated guidance available
 - A glass of wine is offered on the top floor
 - Closing time is 6:20pm
- Wine experience during our cocktail reception

Schedule: <https://dpdkbordeaux2019.sched.com/>



Thursday, September 19

- 08:30 Registration & Welcome
- 09:00 Introduction
- 09:30 Dynamic mbuf - Thomas Monjalon, Mellanox
- 10:00 Which Standard for Ethernet Statistics? - Thoman Monjalon, Mellanox
- 10:30 AM Break
- 10:45 Recent advances in DPDK IPsec - Konstantin Ananiev, Intel
- 11:15 DPDK Regex device - Alex Rosenbaum, Mellanox
- 11:45 Adding Eventdev support in IPsec-gw and other apps - Hemant Agrawal, NXP
- 12:00 Asynchronous CBDMA Enqueue Framework for vHost-User - Jiayu Hu, Intel
- 12:30 Lunch

- 13:45 DPDK Thread-safe High Performance Pseudo-random Number Generation - Mattias Rönnblom, Ericsson
- 14:15 Better development with robots - Aaron Conole, RedHat
- 14:30 DPDK Community Updates - John McNamara, Intel
- 15:00 Community Survey Analysis and Conclusion - Honnappa Nagarahalli, ARM
- 15:15 DPDK.org services, latest and future planned improvements - Ali Alnubani, Mellanox
- 15:45 PM Break
- 16:15 Introduction to the new DPDK Vulnerabilities management process - Maxime Coquelin
- 16:30 DPDK LTS update - Kevin Traynor, RedHat
- 17:00 Does DPDK need a stable ABI? - Stephen Hemminger, Microsoft & Ray Kinsella, Intel
- 18:00 Cocktail

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15:15

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15:15

Introduction to the new DPDK generational garbage collection management process - Maxime Coquelin

15:30

DPDK TS update - Krzysztof Trzcinski, Intel

18:00

Cocktail



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Friday, September 20

- 08:30 Registration & Welcome
- 09:00 Integrating RCU library with data structures - Honnappa Nagarahalli, ARM
- 09:30 Current sorry state of C11 code and suggestions to fix it - Phil Yang, ARM
- 10:00 Arm64 WFE mechanism and use cases in DPDK - Gavin Hu, ARM
- 10:30 AM Break
- 11:00 DPDK Build System Status and Plans - Bruce Richardson, Intel
- 11:15 What is wrong with existing packet capture (and how to fix it) - Stephen Hemminger
- 11:30 virtio-net failover in DPDK - Jens Freimann, RedHat
- 12:00 DPDK-accelerated Partial Offload for Fine-grained HQoS - Rosen Xu, Intel

- 12:30 Lunch
- 14:00 Higher guaranteed performance for DPDK threads via new power library changes - David Hunt, Intel
- 14:30 Measure Software Performance of Data Plane Applications - Harry van Haaren, Intel
- 15:00 rte_flow at hyper large scale toward production is really happening - Alex Rosenbaum, Mellanox & Intel, ix. xing, Alibaba
- 15:30 PM Break
- 16:00 DPDK expands into Storage domain - Darek Stojaczyk & Fiona Trahe, Intel
- 16:30 Docker VNFs and packet throughput using Lib1Net and DPDK - Anthony Fee, Emutex
- 16:45 State of DPDK in Network Service Mesh - Frederick Kautz, Doc.ai
- 17:00 Conclusion
- 17:30 Permanent Exhibition Tour at LA CITE DU VIN

DPDK Userspace Conference Etiquette

- Interactive dialogue
- Use a microphone
- Respect the presenter and others
- Mind the time
- One conversation
- Take calls and conversation outside
- Continue the conversation during breaks, lunch, reception

Security Keys Corner

- Learn!
- Security & Privacy Best Practices
- GPG Keys
- Maintainers & Contributors Encouraged to Attend
- Open During Breaks & Lunch



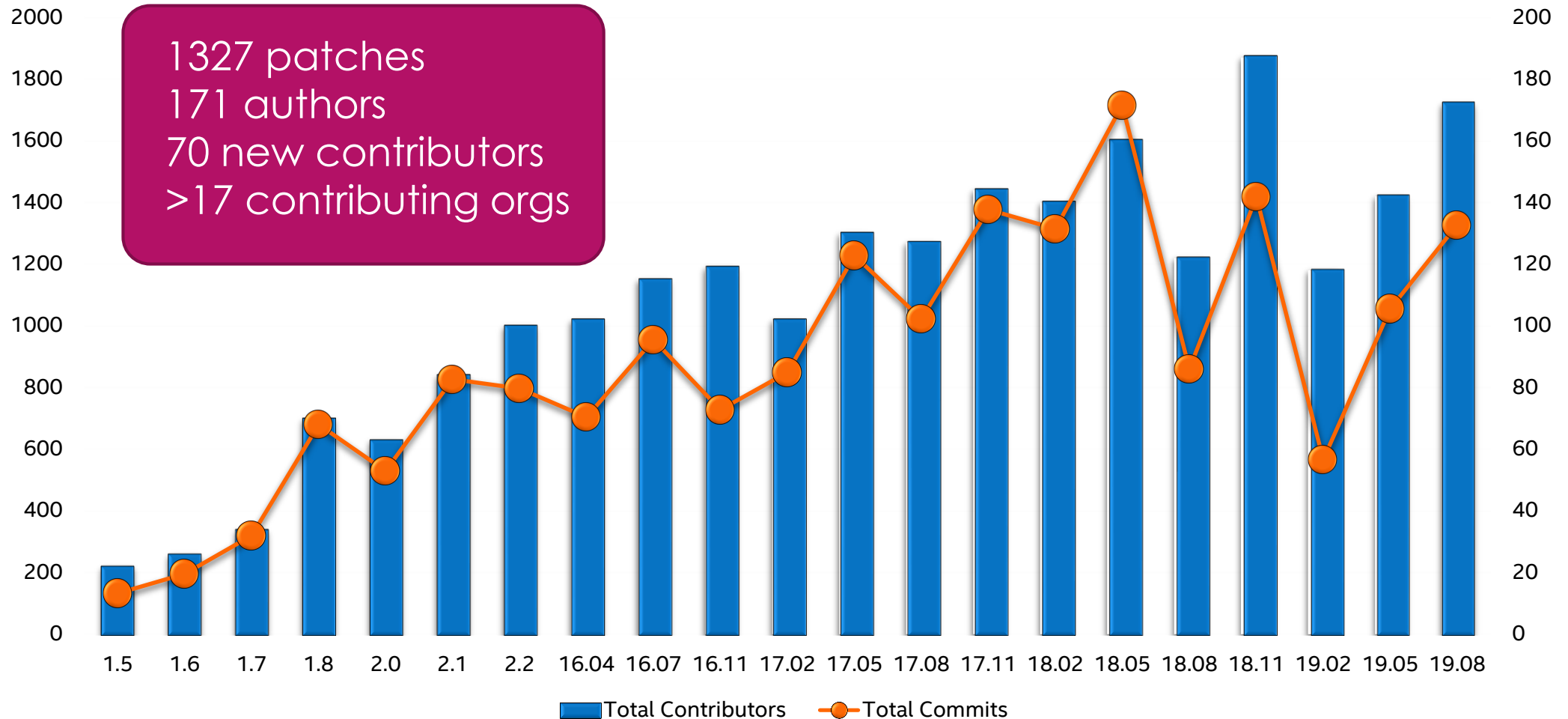
Our Sponsors



Red Hat

19.08 Release Stats

Tracking the growth of the project for each release by
Number of contributors & Number of commits



Comments After 19.08

- Master Maintainer work load is very heavy for one person
- Number of new contributors is very encouraging
- 19.11 expected to be the largest ever release
- DPDK contributors companies consolidation (M&A)
- LTS importance growing
- Windows community calls
- We need more help validating each release
- Increasing DPDK collaboration among contributing companies

2019 Financial Summary (Public)

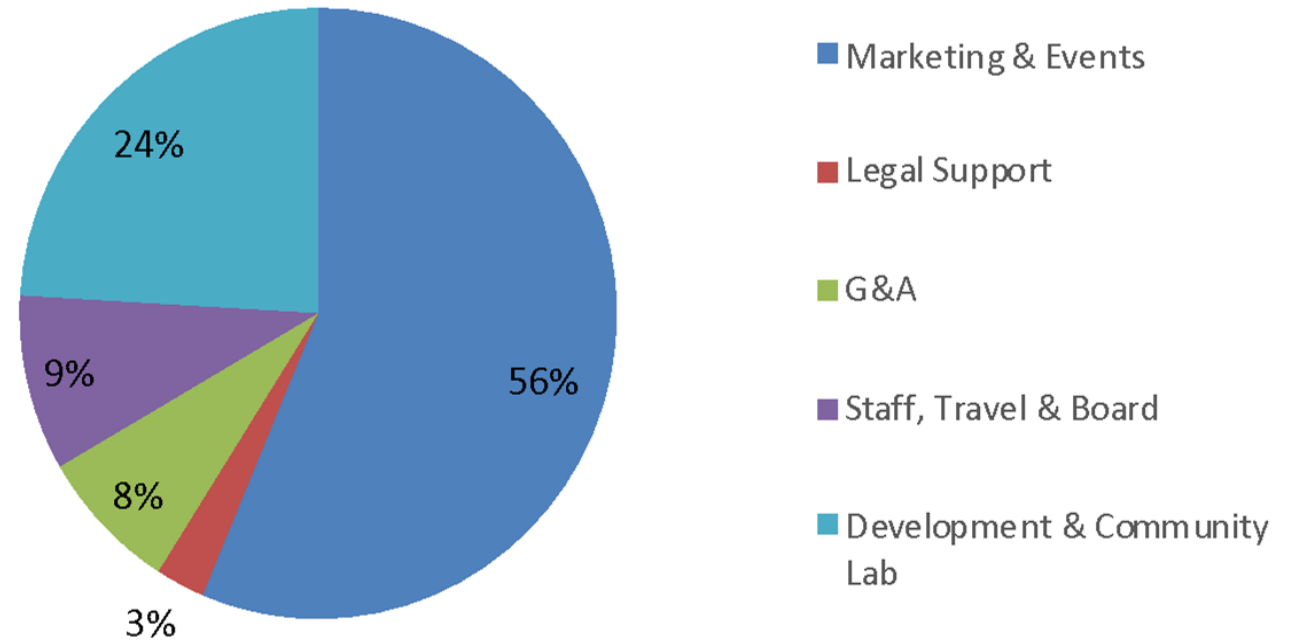
Expenditures

	Budget	Forecast 2019
Marketing & Events	\$424,282	\$346,476
Legal Support	\$20,000	\$5,000
G&A	\$57,600	\$52,650
Staff, Travel & Board	\$70,000	\$70,000
Development & Community Lab	\$181,300	\$117,300
Total	\$753,182	\$591,426

Revenue

	Budget	Forecast 2019
Membership Dues	\$570,000	\$555,000
Event Sponsorships & Registration	\$70,000	\$30,000
Total	\$640,000	\$585,000

Expenditures Budget 2019



Upcoming Events in the US



DPDK Summit USA
November 12-13, 2019
Computer History Museum
Mountain View, CA
2-day event



<https://www.dpdk.org/events/>

<https://events.linuxfoundation.org/events/dpdknorthamerica2019/>

Our Beloved Organizers





Let's Begin!



Thank You

