



# DPDK APAC vSummit Opening Remarks

Jim St. Leger, DPDK Project, Governing Board Chair

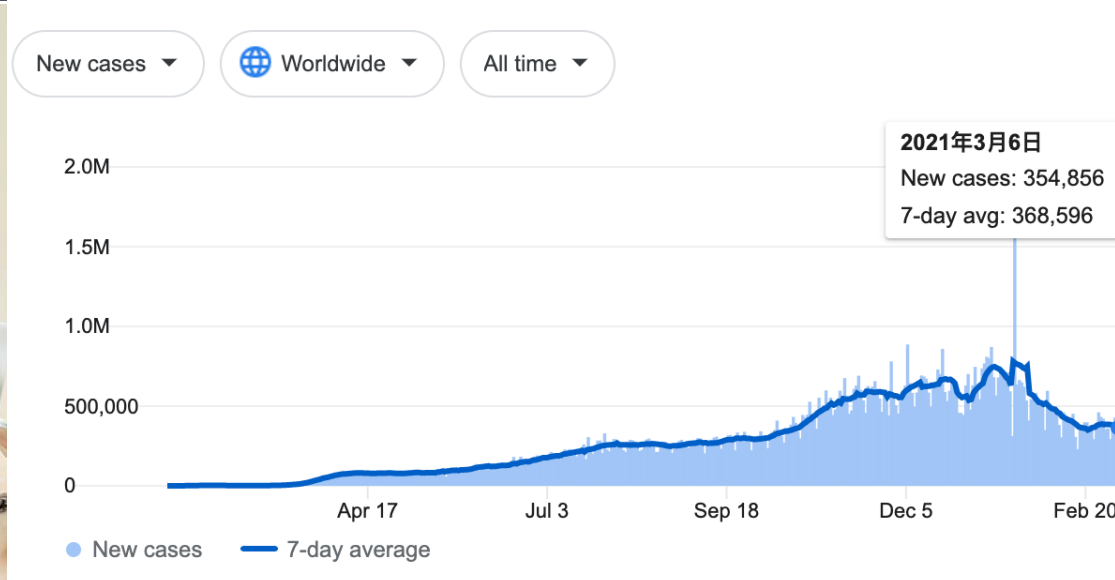
22 Mar 2021

#DPDKSummitAPAC

<https://events.linuxfoundation.org/dpdk-summit-apac/>



# Welcome!



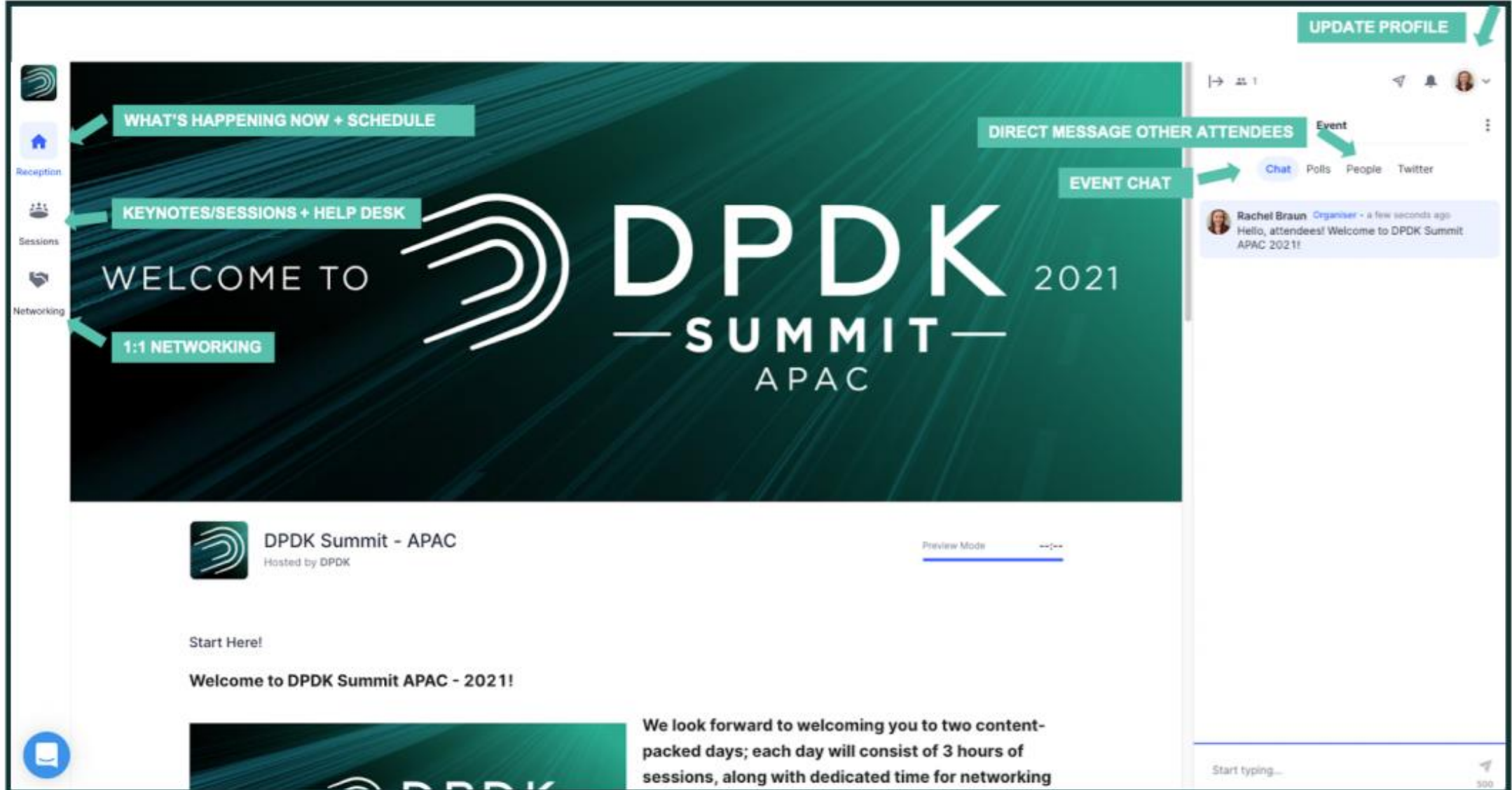
# Code of Conduct

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- Respectful, Harassment-free Environment
- Recognize Every Person and Group
- Professional Behavior
- Encourage the Open Exchange of Ideas and Expression
- Be Nice to Each Other

<https://events.linuxfoundation.org/about/code-of-conduct/>

# Hopin Event Platform



The screenshot displays the Hopin Event Platform interface for the DPDK Summit APAC 2021. The main banner area features the event title "DPDK —SUMMIT— 2021 APAC" and a "WELCOME TO" message. The left sidebar contains navigation icons for Reception, Sessions, and Networking, with corresponding labels. The right sidebar includes an "UPDATE PROFILE" button, a "DIRECT MESSAGE OTHER ATTENDEES" button, and an "EVENT CHAT" section with tabs for Chat, Polls, People, and Twitter. A chat message from Rachel Braun, the organizer, is visible in the chat window. The bottom section of the interface shows a "Start Here!" button and a welcome message: "Welcome to DPDK Summit APAC - 2021!". A preview mode toggle is also present.

WHAT'S HAPPENING NOW + SCHEDULE

KEYNOTES/SESSIONS + HELP DESK

1:1 NETWORKING

WELCOME TO

DPDK —SUMMIT— 2021 APAC

UPDATE PROFILE

DIRECT MESSAGE OTHER ATTENDEES

EVENT CHAT

Chat Polls People Twitter

Rachel Braun *Organiser* • a few seconds ago  
Hello, attendees! Welcome to DPDK Summit APAC 2021!

DPDK Summit - APAC  
Hosted by DPDK

Preview Mode

Start Here!

Welcome to DPDK Summit APAC - 2021!

We look forward to welcoming you to two content-packed days; each day will consist of 3 hours of sessions, along with dedicated time for networking



Start typing...




# Event Interaction – Events, Polls, People

Event


Chat Polls People Twitter

 **Rachel Braun**  Organiser • a month ago  
Hello, attendees! Welcome to DPDK Summit APAC 2021!

 **Rachel Braun** Organiser • a month ago  
Hello, attendees! Welcome to DPDK Summit APAC 2021!

Event Session

Chat Polls People Twitter

 **Rachel Braun** • a few seconds ago

How long have you been using DPDK?

1 year


2-5 years


5+ years


Event Session


Chat Polls People Twitter


Search


 **Chenbo Xia**  
Software Developer


 **Chenmin Sun**

 **Elna Vogel**  
Event Planner @ The Linux Fou...

 **Emily Ruf - Linux Foundation**  
Event Manager

 **Hongjun Chen**

 **Hongjun Ni**

 **Jiayu Hu**

Schedule a meeting

# Live Translation via Wordly

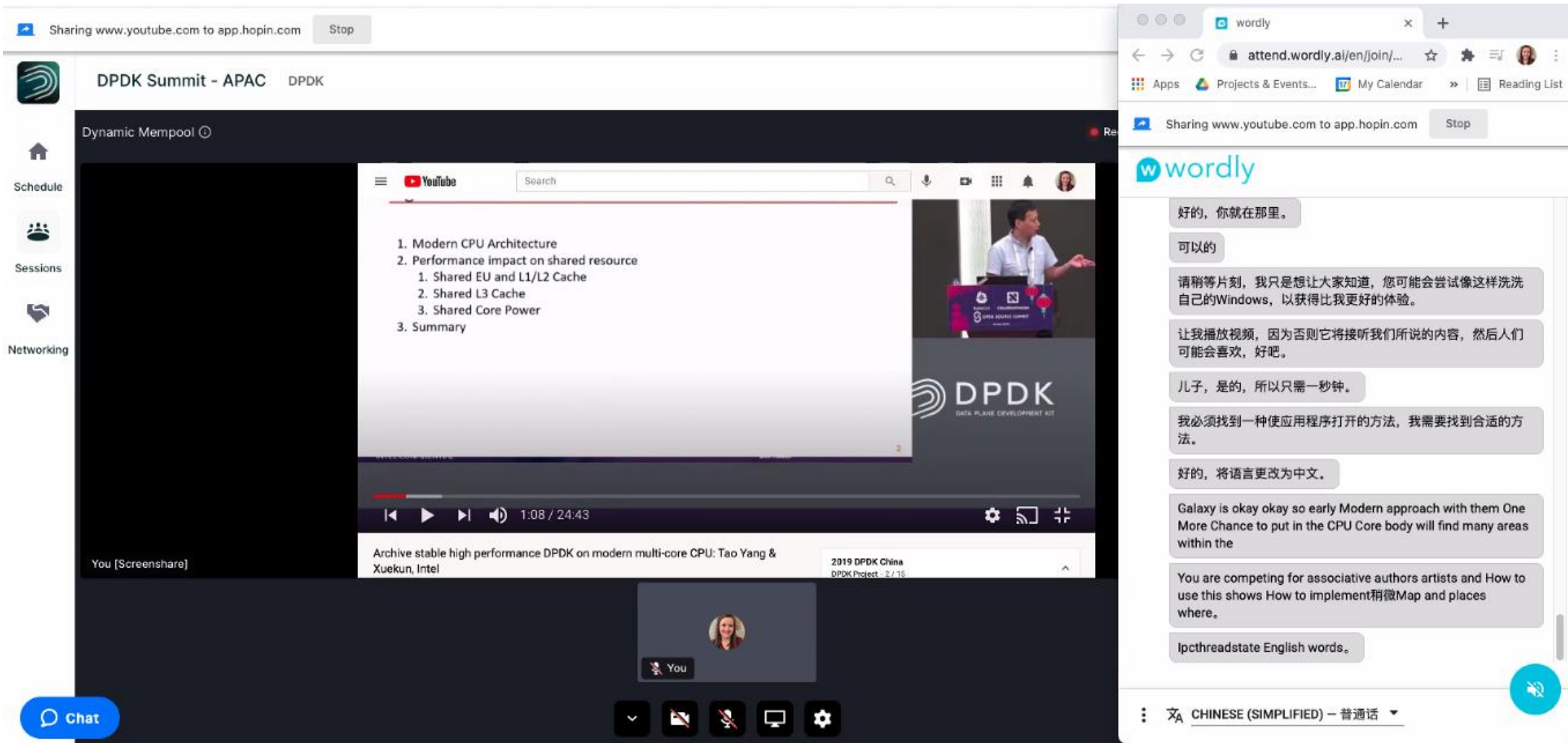
Presentation Language: English

Live translations in your preferred language are available here: <https://attend.wordly.ai/en/join/TTUG-8427>

Presentation slides will be in English - Slides are provided **HERE**.

Choose Language	Choose Language	Choose Language
<input type="radio"/> Arabic — العربية	<input type="radio"/> German — Deutsch	<input type="radio"/> Korean — 한국어
<input type="radio"/> Bengali — বাংলা	<input type="radio"/> Hindi — हिन्दी	<input type="radio"/> Polish — Język polski <small>Beta</small>
<input checked="" type="radio"/> Chinese (Simplified) — 普通话	<input type="radio"/> Indonesian — Bahasa Indonesia <small>Beta</small>	<input type="radio"/> Portuguese — Português
<input type="radio"/> Chinese (Traditional) — 國語	<input type="radio"/> Italian — Italiano	<input type="radio"/> Russian — Русский
<input type="radio"/> Dutch — Nederlands	<input type="radio"/> Japanese — 日本語	<input type="radio"/> Spanish — Español
<input type="radio"/> English (US)	<input type="radio"/> Korean — 한국어	<input type="radio"/> Tamil — தமிழ்
<input type="radio"/> French — Français	<input type="radio"/> Polish — Język polski <small>Beta</small>	<input type="radio"/> Vietnamese — Tiếng Việt <small>Beta</small>

# Hopin Platform and Wordly Translation



The screenshot displays the Hopin platform interface. On the left, a sidebar contains navigation icons for Home, Schedule, Sessions, and Networking. The main area features a video player titled "Dynamic Mempool". The video content shows a presentation slide with the following topics:

- 1. Modern CPU Architecture
- 2. Performance impact on shared resource
  - 1. Shared EU and L1/L2 Cache
  - 2. Shared L3 Cache
  - 3. Shared Core Power
- 3. Summary

The video player includes a progress bar at 1:08 / 24:43 and a chat window at the bottom. The chat window shows a message from "You [Screenshare]": "Archive stable high performance DPDK on modern multi-core CPU: Tao Yang & Xuekun, Intel".

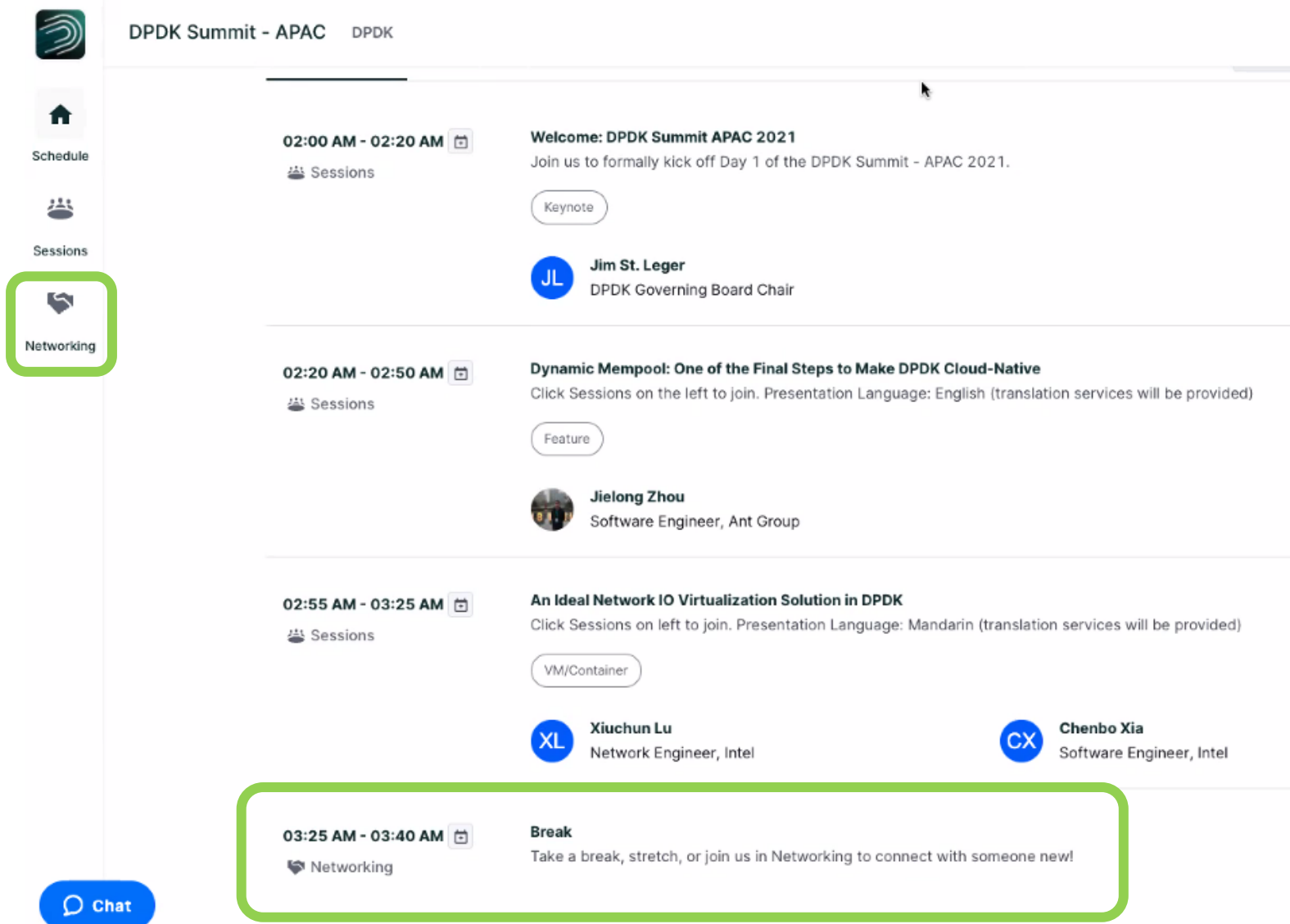
On the right, a Wordly translation window is open, showing a list of Chinese sentences and their English translations. The sentences are:

- 好的，你就在那里。
- 可以的
- 请稍等片刻，我只是想让大家知道，您可能会尝试像这样清洗自己的Windows，以获得比我更好的体验。
- 让我播放视频，因为否则它将接听我们所说的内容，然后人们可能会喜欢，好吧。
- 儿子，是的，所以只需一秒钟。
- 我必须找到一种使应用程序打开的方法，我需要找到合适的方法。
- 好的，将语言更改为中文。
- Galaxy is okay okay so early Modern approach with them One More Chance to put in the CPU Core body will find many areas within the
- You are competing for associative authors artists and How to use this shows How to implement稍微Map and places where.
- lpcthreadstate English words.

The Wordly window also shows a language selection dropdown set to "CHINESE (SIMPLIFIED) - 普通话".

# Networking Chat Roulette!

Meet people!



The screenshot shows the DPK Summit - APAC 2021 interface. On the left sidebar, the 'Networking' icon is highlighted with a green box. The main content area displays a list of sessions. The first session is 'Welcome: DPK Summit APAC 2021' from 02:00 AM to 02:20 AM, featuring Jim St. Leger, DPK Governing Board Chair. The second session is 'Dynamic Mempool: One of the Final Steps to Make DPK Cloud-Native' from 02:20 AM to 02:50 AM, featuring Jielong Zhou, Software Engineer, Ant Group. The third session is 'An Ideal Network IO Virtualization Solution in DPK' from 02:55 AM to 03:25 AM, featuring Xiuchun Lu, Network Engineer, Intel, and Chenbo Xia, Software Engineer, Intel. The fourth session is 'Break' from 03:25 AM to 03:40 AM, encouraging participants to take a break or join the Networking session. The 'Networking' session is highlighted with a green box. A 'Chat' button is visible at the bottom left.

DPDK Summit - APAC DPK

**02:00 AM - 02:20 AM** Sessions

**Welcome: DPK Summit APAC 2021**  
Join us to formally kick off Day 1 of the DPK Summit - APAC 2021.

Keynote

**Jim St. Leger**  
DPK Governing Board Chair

**02:20 AM - 02:50 AM** Sessions

**Dynamic Mempool: One of the Final Steps to Make DPK Cloud-Native**  
Click Sessions on the left to join. Presentation Language: English (translation services will be provided)

Feature

**Jielong Zhou**  
Software Engineer, Ant Group

**02:55 AM - 03:25 AM** Sessions

**An Ideal Network IO Virtualization Solution in DPK**  
Click Sessions on left to join. Presentation Language: Mandarin (translation services will be provided)

VM/Container

**Xiuchun Lu**  
Network Engineer, Intel

**Chenbo Xia**  
Software Engineer, Intel

**03:25 AM - 03:40 AM** Networking

**Break**  
Take a break, stretch, or join us in Networking to connect with someone new!

Chat

#DPDKSummitAPAC



# DPDK 20.11 LTS Release

The **biggest** DPDK release ever, with:

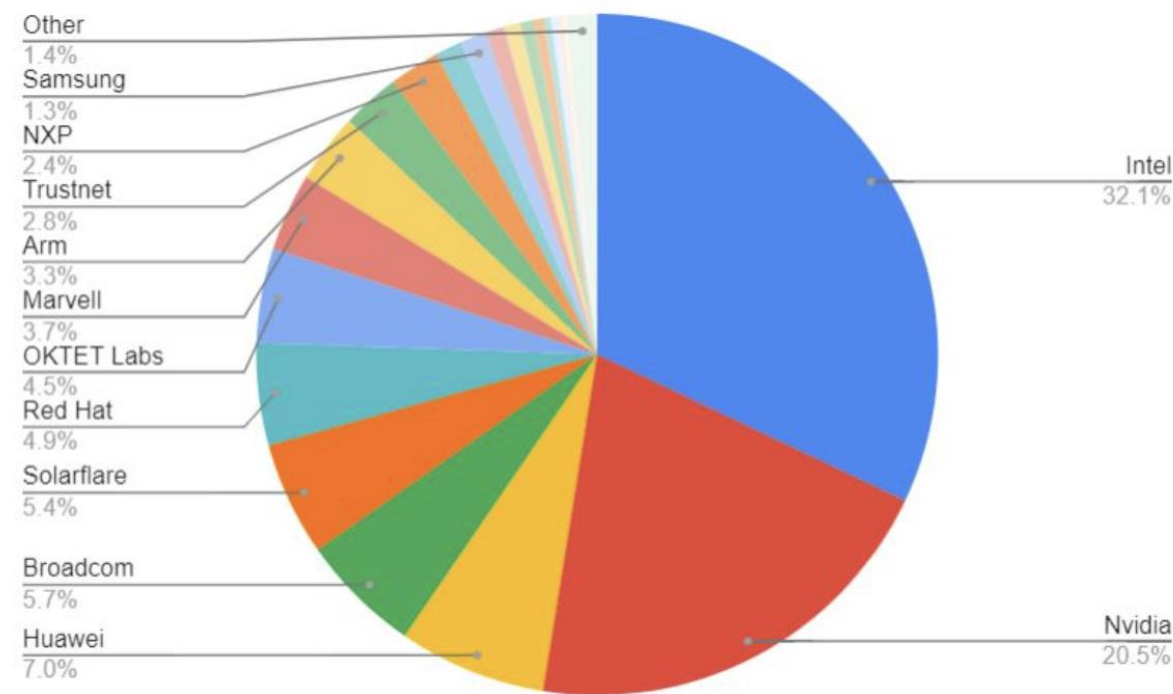
**2195 commits from 214 authors**

**2665 files changed**

**269546 insertions(+), 107426 deletions(-)**

- General: mbuf dynamic area increased, ring zero cop, ...
- Networking: FEC AP, Rx buffer split, thread safety in flow API, ...
- RegEx: Marvell OCTEON TX2 regex driver
- Baseband: Intel ACC100 driver
- Cryptography: raw datapath API, Broadcom BCMFS symmetric crypto
- Others: Intel DLB/DLB2 drivers, Intel DSA support in IOAT driver

Detailed information at this [link](#)



commits by employer

- The industry is removing offensive, non-inclusive language
- Software, open source projects, standards orgs, documentation
- DPDK 20.11 release replaced:
  - master/slave changed to main/worker
  - whitelist/blacklist changed to allowlist/blocklist
- More work to do
- InclusiveNaming.org is an open source initiative
- Thanks to the DPDK community!

[https://doc.dpdk.org/guides/rel\\_notes/release\\_20\\_11.html](https://doc.dpdk.org/guides/rel_notes/release_20_11.html)

- 941 commits from 140 authors
  - 34 new contributors
  - 22 companies making commits
- 1208 files changed, 53571 insertions(+), 21946 deletions(-)

## **New Features:**

- Networking
  - power management for core polling single ethdev queue
  - generic modify action in flow API
  - GENEVE TLV option in flow API
  - Marvell OCTEON TX EP net PMD
  - Virtio PMD rework
  - Windows support of i40e and mlx5

## **New Features:**

- Cryptography
  - callback API for enqueue/dequeue
- Compression
  - Mellanox compress PMD
- Others
  - new pmdinfogen with Windows support

[https://doc.dpdk.org/guides/rel\\_notes/release\\_21\\_02.html](https://doc.dpdk.org/guides/rel_notes/release_21_02.html)

# DPDK User Community – Growing Again!

## 本地用户



## Global





# Celebrating of DPDK



#DPDKSummitAPAC

<https://www.dpdk.org/10th-anniversary/>

# *Celebrating* *of* DPDK

In Loving Memory: Venky Venkatesan, “The Father of DPDK”



<https://www.dpdk.org/10th-anniversary/>

## **DPDK Summit North America**

July 12-15

Planning for a virtual, on-line event

## **DPDK Summit Userspace**

December 7-10

Planning for a hybrid event, both in-person and virtual access

Location in EMEA

Additional details will be shared as plans develop

Watch DPDK events page <https://www.dpdk.org/events/>

#DPDKSummitAPAC

# Thank You Event Organizers!

## CFP Team:

Bruce Richardson  
Honnappa Nagarahalli  
Konstantin Ananyev  
Stephen Hemminger

Ferruh Yigit  
Jerin Jacob  
Maxime Coquelin  
Olivier Matz

Thomas Monjalon  
Hemant Agrawal  
Kevin Traynor  
Jokul Li

Zhaoyan Chen  
Qian Xu

## Event Planners:

Jill Lovato

Trishan de Lanerolle

Rachel Braun

Qian Xu

Zhaoyan Chen

## Our Speakers:

Harry Chang  
Xueqin Lin  
Kun Qiu  
Yinan Wang  
Jun Yang

Hongjun Chen  
Xiuchun Lu  
Chenmin Sun  
Yipeng Wang  
Fan Zhang

Zhaoyan Chen  
Hongjun Ni  
Tri Trinh  
Chenbo Xia  
Jielong Zhou

Jiayu Hu  
Kentaro Ogawa  
Xiao Wang  
Rosen Xu



# DPDK Project Social Media



@DPDKProject

#DPDKSummitAPAC



# DPDK Summit APAC Agenda – 10 Talks



## Monday, March 22

07:00 UTC	Welcome: DPDK Summit APAC 2021
07:20 UTC	Dynamic Mempool: One of the Final Steps to Make DPDK Cloud-Native
07:55 UTC	An Ideal Network IO Virtualization Solution in DPDK
08:25 UTC	Break
08:40 UTC	Handling Elephant Flow on a DPDK-Based Load Balancer
09:15 UTC	OvS Tunneling and Connection Tracking Hardware Offload via Rte_flow
09:50 UTC	Accelerating vHost Data Plane with DMA in the CPU
10:20 UTC	Closing Remarks - Day 1

## Tuesday, March 23

07:00 UTC	Welcome: DPDK Summit APAC - Day 2
07:05 UTC	Warp Speed Cryptographic Applications - A New DPDK Cryptodev Raw Data Path API and Its Use in FD.io VPP
07:40 UTC	Introducing Hardware Content Inspection Accelerator Into the Network Security Applications
08:10 UTC	Break
08:25 UTC	Enhance SEBA-Based FTTH vCPE System with SPP vSwitch
09:00 UTC	Memory Error Detect Enhancement for DPDK Fuzzing
09:35 UTC	Using DPDK to Build PCIe Endpoint Framework
10:05 UTC	Closing Remarks - DPDK Summit APAC 2021

<https://dpdksummitapac2021.sched.com/>

#DPDKSummitAPAC

NOTE: Presentations are in English or Chinese with closed captioning translation



DPDK

—SUMMIT—

APAC • 2021

# Event Survey

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Please fill out the event survey

Let us know what worked

Let us know what needs improvement